

# THE AMERICAN ASSOCIATION OF GEOGRAPHERS



## 2017 Annual Meeting

April 5 - 9, 2017

Boston, Massachusetts

## PROGRAM

The American Association of Geographers

1710 Sixteenth Street, NW

Washington, DC 20009-3198

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Fax (202) 234-2744

[www.aag.org](http://www.aag.org)

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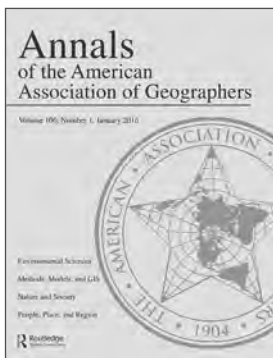


# AAG

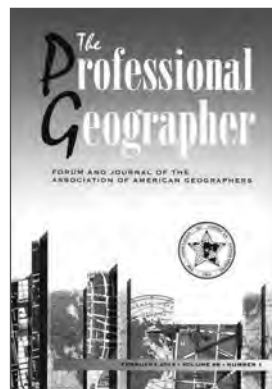
AMERICAN ASSOCIATION  
of GEOGRAPHERS

## Geography's Leading Journals

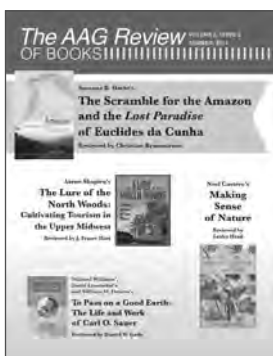
**AAG members receive all of these AAG journals free.**



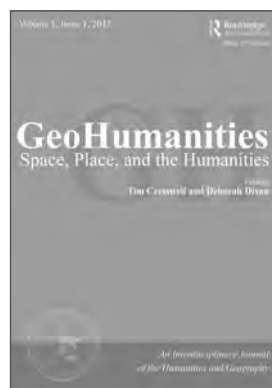
The *Annals of the American Association of Geographers* publishes original, timely, and innovative peer-reviewed articles that advance knowledge in all facets of the discipline. Articles are divided into four thematic sections: Environmental Sciences; Methods, Models, and GIS; Nature and Society; and People, Place and Region.



The *Professional Geographer* publishes short articles on academic or applied geography, emphasizing empirical studies and methodologies. The journal provides a forum for new ideas and alternative viewpoints.



The *AAG Review of Books*, a quarterly online journal, contains reviews of current books related to geography, public policy and international affairs, and also features review essays and book review fora.



*GeoHumanities* is the AAG's newest journal and presents a new opportunity for publishing interdisciplinary scholarship. The journal features full length scholarly articles and shorter creative pieces that cross over between the academy and creative practice.

**To access the AAG journals online,  
log in at [www.aag.org/journals](http://www.aag.org/journals).**

# JOIN TODAY!

## Limited Time Offer!

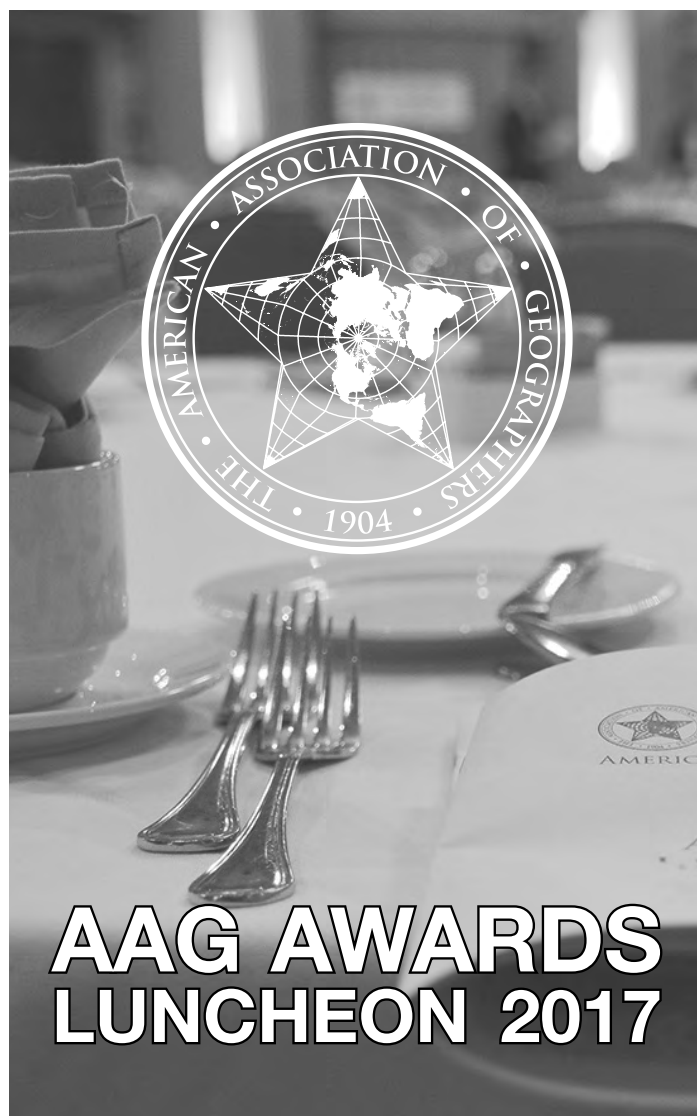
**\$50** | **\$100**  
STUDENT MEMBER | REGULAR MEMBER

New and renewing student members can join AAG this week for only \$50. Regular membership is only \$100. But hurry! This offer is available this week only. Visit the on-site registration desk to join.

Offer not available online.



**www.aag.org**  
**202-234-1450**



**SUNDAY, APRIL 9, 2017**

**11:50 A.M.–2:00 P.M.**

CONSTITUTION BALLROOM  
SHERATON HOTEL, SECOND FLOOR

Celebrate with your friends, colleagues, and other honorees at the AAG Awards Luncheon. AAG Awards, AAG Honors, AAG Specialty Group Awards, and many other accolades will be conferred.

Members who have held 50 years of continuous membership will also be recognized for their enduring support and contributions to the Association.

**ADMISSION: \$55** (*includes lunch*)

**Purchase your seat at the AAG On-site Registraton Desk.**

Tables for parties of ten are also available

# AAG 2017 Boston Mobile App Tip Sheet

Welcome to the AAG Mobile App! There are a few steps you should do first to take advantage of all of the benefits of the app:

**Don't forget these two important steps** found within the Settings (gear icon near top right) when starting to use your app:

1. Set up your profile by selecting MyProfile and fill in your information. When finished, scroll to the bottom, check the box to publish your profile and save.
2. If you will be using two mobile devices, select the Multi Device Sync. On your primary device, select First Device and enter your desired information. Then, on your second device, navigate to the same area and select Additional Device and enter the email and password you used on your primary device. *Set up your profile ONLY on your primary device and it will sync to your second device.*

**Your dashboard is the command center:** From here, you can navigate to:

- **My Schedule:** A customized list of events that you want to attend. (Just tap the star icon on events you want to remember and it will appear in your calendar.)
- **Exhibitors:** An interactive list of all the companies exhibiting at your show. (Tap the star icon to bookmark booths you want to highlight.)
- **Maps:** Detailed floor maps where events are taking place.
- **Sessions:** A complete and up-to-date agenda of events at the show.
- **Participants:** Everyone presenting is listed with links to their events.
- **Social Media:** Keep up to date on all of your Twitter, Facebook and LinkedIn buzz, and share your pictures in the photo gallery.
- **Message Center:** Tap on the three stacked bars in the upper left and you'll see a sidebar. From here you can view/invite friends to the app, change your status, email all of your notes and get alerts that are pushed right to your device, so you won't miss a thing.

**Troubleshooting:** If you're only using one mobile device and want to ensure you have a backup in case you need to reinstall, make sure to follow these steps first: navigate to your settings and choose Send Backup to Support. An email message will appear with your specific code. Tap Send and your backup will be sent to Core-apps support. They will be able to help you recover your data.

If you find the app slow to launch, you may bypass the update by tapping the back arrow on Android or the cancel button on iOS devices to immediately get to the dashboard. Update times during app launch vary by device, connection strength and also depend on when you last did a full update. Remember, this is a large meeting with 6,900 abstracts, 1,700 sessions and 9,000 attendees! If your refresh button turns red, it's time to update.



**TIP:** Return to your dashboard by tapping the home icon in the upper left toolbar. Other frequently-used areas (Exhibitors, Sessions, My Schedule, Abstracts and Search) are also just a tap away via this toolbar at the top.

**TIP:** Use your tablet in landscape mode to fully utilize the wider screen area for the app.

**TIP:** Set your profile and customize app functions by tapping the gear icon in the upper right corner of the dashboard.

**TIP:** When the refresh icon (circular arrows) turns red, it means new data has been added in the app. Update by tapping this icon found in the upper right corner of the dashboard. When in doubt, do a refresh.

**DOWNLOAD THE NATIVE APP:**  
<http://m.core-apps.com/aagmeetings>  
(for Android, Blackberry and iOS)

**BOOKMARK THE WEB APP:**  
<http://app.core-apps.com/aagam2017>  
(for Windows phone or computer)



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## AAG OFFICERS, COUNCILLORS, AND STAFF

### OFFICERS

Glen MacDonald, President, University of California Los Angeles  
Derek Alderman, Vice President, University of Tennessee  
Sarah Witham Bednarz, Past President, Texas A&M University  
Thomas Mote, Secretary, University of Georgia  
Julie Cidell, Treasurer, University of Illinois Urbana-Champaign  
Douglas Richardson, Executive Director

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Stuart C. Aitken, San Diego State University  
Gregory Pope, Montclair State University  
Susan M. Roberts, University of Kentucky  
Susy S. Ziegler, Northern Michigan University

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John T. Hayes, Salem State University, *New England-St. Lawrence Valley (NESTVAL)*  
Patrick Lawrence, University of Toledo, *East Lakes (ELAAG)*  
Sriram Khe, Western Oregon University, *Pacific Coast (APCG-AAG)*  
Thomas Mote, University of Georgia, *Southeastern (SEDAAG)*  
Robert Mason, Temple University, *Middle States (MSAAG)*  
Julie Cidell, University of Illinois at Urbana-Champaign, *West Lakes (WLAAG)*  
Christopher Hair, University of Southern Mississippi (*Graduate Student Observer*)

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Jennifer Cassidento, Publications Director  
David L. Coronado, Communications Director  
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Liza Giebel, IT Support Specialist  
Niem Huynh, AAG Research Fellow  
Jolene Keen, Research Associate  
Oscar Larson, Conference Director  
Michelle Ledoux, Membership Director  
Candice Luebbering, Senior Research Geographer  
Robin Maier, Journals Production Editor (*The Professional Geographer*)  
Candida Mannozi, Deputy Director of Operations  
Teri Martin, Director of Finance  
Reacha O'Neal, Administrative Assistant  
Rebecca Pendergast, Director of Design and Digital Products  
Mark Revell, Workforce Development Specialist and Guide Editor  
Douglas Richardson, Executive Director  
Michael Solem, AAG Senior Adviser for Geography Education  
Kelsey Taylor, Research and Conference Assistant  
Yonette Thomas, Senior Advisor  
Elin Thorlund, Research Assistant  
John A. Wertman, Senior Program Manager for Government Relations

# LOCAL ARRANGEMENTS COMMITTEE, J. WARREN NYSTROM AWARD COMMITTEE, CAREER MENTORS AND AAG DIVERSITY AMBASSADORS

## LOCAL ARRANGEMENTS COMMITTEE

Suchi Gopal, Boston University  
Rachel Franklin, Brown University  
Stewart Berry, Caliper Corporation  
Sarah Luria, College of the Holy Cross  
Xun Shi, Dartmouth College

Wendy Guan, Harvard University Center for Geographic Analysis

Mike Foster, Massachusetts Institute of Technology  
Amy Glasmeier, Massachusetts Institute of Technology  
Sarah Williams, Massachusetts Institute of Technology

Ruth Allen, Mercy Corps  
Steve Matchak, Salem State University  
Keith Ratner, Salem State University  
Steve Young, Salem State University  
Joshua Lieberman, Tumbling Walls Consultancy  
Ken Foote, University of Connecticut  
Matt Wilson, University of Kentucky  
Paul Frederic, University of Maine

Cathleen McAnneny, University of Maine, Farmington  
Deborah Metzel, University of Massachusetts - Boston

Alan Wiig, University of Massachusetts - Boston  
Carol Harden, University of Tennessee  
Lesley-Ann Dupigny-Giroux, University of Vermont  
Anthony Bebbington, Clark University  
Robert Gilmore Pontius, Jr., Clark University  
Yelena Ogneva-Himmelberger, Clark University  
Yuko Aoyama, Clark University  
Patricia Benjamin, Worcester State University  
Alexander Tarr, Worcester State University

## AAG DIVERSITY AMBASSADORS

Debanuj DasGupta, University of Connecticut  
Arvind Bhuta, USDA - U.S. Forest Service  
Darryl Cohen, U.S. Census Bureau  
Astrid Ng, Esri  
Arthur Samel, Bowling Green State University

## J. WARREN NYSTROM AWARD COMMITTEE

Jacob Bendix, Syracuse University  
William Moseley, Macalester College  
Robert Rose, College of William and Mary

## CAREER MENTORS

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Pablo Fuentenebro, United Nations Environment Programme  
Michael Ratcliffe, U.S. Census Bureau  
John Sauvageau, Santander Bank, N.A.  
Heather Houlton, American Geosciences Institute  
Marcello Graziano, Central Michigan University  
Lucy Stanfield, U.S. Environmental Protection Agency  
Deborah McDonald, National Geospatial-Intelligence Agency  
Brian Bossak, College of Charleston  
Paul McDaniel, Kennesaw State University  
Jonathan Wessell, Grand Valley State University  
Adrienne Tucker, Pennsylvania State University  
Lisa Brownell, Ohio State Historic Preservation Office  
Michaela Buenemann, New Mexico State University  
Kaitlin Ciarmello, ABC-CLIO  
Niem Huynh, American Association of Geographers  
Rachel Berndtson, University of Maryland  
Jung Eun Hong, University of West Georgia  
Wei Li, Arizona State University  
Denis Dean, University of Texas at Dallas  
Candice Luebbering, American Association of Geographers  
Anna Royar, University of Vermont  
Johanna Ostling, Kaiser Permanente, Santa Rosa Junior College  
Sunhui Sim, University of North Alabama  
Carmen Brysch, Auburn University  
Mark Revell, American Association of Geographers  
Arvind Bhuta, USDA - U.S. Forest Service

## GENERAL INFORMATION

### ACCESSIBILITY

In support of the Americans with Disabilities Act, the AAG and its contracted facilities will accommodate reasonable requests for accessibility to the extent possible. Individuals requiring special accommodations are asked to make their specific needs known to the AAG or to the facilities.

### ALCOHOL

The AAG expects all attendees to act responsibly when consuming alcoholic beverages. Consumption of alcohol by those under the age of 21 is prohibited.

### BAGS/COATS/PACKAGES

For security reasons, the AAG is unable to hold attendees' bags, packages, briefcases, coats, laptops or other personal items at registration. For your own safety and the security of your belongings, we strongly recommend checking these items at a hotel bell stand.

### CHILD CARE

The AAG is pleased to announce the return of the full-time, professionally managed and staffed onsite childcare services for the 2017 Annual Meeting in Boston, at the Sheraton Boston Hotel from April 5-9, 2017.

The onsite childcare services will be provided by Accent on Children's Arrangements, Inc. (ACCENT) [www.accentoca.com](http://www.accentoca.com), which will design and run a children's program called CAMP AAG.

CAMP AAG will offer age-appropriate activities for children ranging from 6 months to 12 years of age (separated into age-appropriate groups) including curriculum-enriched, hands-on, creative activities, arts & crafts projects, active games, and more. ACCENT will staff CAMP AAG with teacher professional child care providers who have completed ACCENT's specialized training program. In addition, ACCENT's onsite supervisors are CPR and Pediatric First Aid certified.

CAMP AAG will run for all five Annual Meeting days as follows:

Wednesday, April 5	7:30 am – 8:00 pm
Thursday, April 6	7:30 am – 7:30 pm
Friday, April 7	7:30 am – 7:30 pm
Saturday, April 8	7:30 am – 7:30 pm
Sunday, April 9	7:30 am – 6:00 pm

The AAG will cover all of the very substantial overall costs to hire ACCENT to establish and staff the onsite childcare facility, and will also subsidize their hourly childcare rates. ACCENT's standard hourly rate for childcare is \$12 for children ages 6 months to 3 years and \$10 for children ages 3 to 12 years. In ad-

dition to paying for all of the facility and staffing costs, the AAG will also subsidize the hourly rates by 50% for this third year. The AAG is making this investment to respond to the needs and requests shared with us over the past years. We look forward to making it possible for more families to enjoy their time at the AAG Annual Meetings.

### LACTATION ROOM

For the benefit of nursing mothers, AAG has provided a lactation room for this year's annual meeting. Please visit the volunteer desk, located in the Exhibit Hall C Foyer on the Second Level of Hynes Convention Center, for more information.

### CONFERENCE VOLUNTEERS

Please report to the Conference Volunteer Desk next to the AAG Registration Desk located in the Exhibit Hall C Foyer on the Second Level of Hynes Convention Center, no later than 20 minutes prior to your first scheduled shift. Upon check in you will receive all pertinent information and instructions regarding your duties. The Conference Volunteer Desk phone number is 317-741-1160.

### EXHIBITS

A vital part of the AAG Annual Meeting is the exhibit hall, where AAG members and attendees can see the latest tools in teaching, field research, graphic applications, computer modeling, and data collection and analysis. Learn about the most recent technical advances in the field, including cartography, GIS, and GPS. You'll also be able to view geography-related textbooks and publications while meeting with publishers.

The AAG Annual Meeting Exhibit Hall is located in Exhibit Hall C, of the second level of the Hynes Convention center. See page 88-90 for an AAG Exhibit Hall floor plan and list of exhibitors.

### EXHIBIT HALL HOURS

#### Thursday, April 6

9:00 a.m. – 5:00 p.m.	Exhibit Hall Open
9:30 a.m. – 11:30 a.m.	Coffee Break in the Hall
1:00 p.m. – 3:00 p.m.	Coffee Break in the Hall

#### Friday, April 7

9:00 a.m. – 5:00 p.m.	Exhibit Hall Open
9:30 a.m. – 11:30 a.m.	Coffee Break in the Hall
3:00 p.m. – 5:00 p.m.	Exhibit Hall Reception: <i>Redeem your drink tickets here!</i>

#### Saturday, April 8

9:00 a.m. - 1:30 p.m.	Exhibit Hall Open
9:30 a.m. - 11:30 a.m.	Coffee Break in the Hall

### SESSION CHAIRS

See instructions on page 94.

## GENERAL INFORMATION

### GEOCACHE INFORMATION

The AAGeoCache Game is a fun way to see the exhibitors and win cool prizes! All conference attendees will receive a Geo-Cache game card in their conference tote bag. The game card will give their first clue – coordinates to a position in the exhibit hall. From there, you will visit vendors through a list of clues. Turn in your completed game card at the AAG Communications Center for your chance to win!

#### **Prize Schedule:**

Thursday, April 6, 4:00 p.m.

- Skywalk Observatory Pass
- Harbor Islands Ferry Pass
- New England Aquarium Pass

Friday, April 7, 4:00 p.m.

- Museum of Fine Arts Pass
- Harvard Art Museums Pass
- John F. Kennedy Library Pass

Saturday, April 8, 12 noon

- AAG swag pack (t-shirt, notebook, pen) and 2018 Registration

### FIELD TRIPS AND WORKSHOPS

All field trips require advance registration. Please visit the AAG Registration Desk located in the Exhibit Hall C Foyer on the Second Level of Hynes Convention Center, to register for a workshop. Field trips will depart from Dalton Street Entrance, in the main lobby of the Sheraton Hotel. We recommend arriving 15 minutes prior to your field trip start time to ensure a timely departure.

### INTERNET ACCESS

There is complimentary wireless internet access for attendees in the Hynes Convention Center. Complimentary wireless internet is also available in the Sheraton. SSID is Sheraton Meetings and the password is aag2017.

### MOBILITY ASSISTANCE

Visit the Conference Volunteer desk next to the AAG Registration Desk located in the Exhibit Hall C Foyer on the Second Level of Hynes Convention Center, to arrange mobility assistance. You may also request assistance from any Conference Volunteer stationed in the lobby of the hotels.

### NON-SMOKING POLICY

The AAG maintains a non-smoking policy in all meeting rooms, the exhibit area, and the registration area. Smoking is allowed only in designated smoking areas of the facilities.

### PHOTOGRAPHY AND VIDEOGRAPHY IN SESSIONS

Photos may not be taken during paper or poster presentations without the permission of the presenter. Anyone taking a photo or video without permission will be asked to leave the conference.

### PRESENTATION CONTENT

The Annual Meeting of the American Association of Geographers is an open forum for sharing the results of research and teaching in geography and related specialties. The contents of annual meeting presentations by individuals or groups at the annual meeting are theirs alone. The American Association of Geographers neither endorses nor disclaims the conclusions, interpretations, or opinions expressed by speakers at its annual meeting.

### PROFESSIONAL CONDUCT

Professional ideas and information are exchanged most effectively at the AAG Annual Meeting in an atmosphere free of abuse or harassment and characterized by courtesy and respect. To that end, the AAG expects all individuals who attend to conduct themselves in a manner that establishes an atmosphere free from discriminatory practices.

### REGISTRATION

The AAG Registration Desk located in the Exhibit Hall C Foyer on the Second Level of Hynes Convention Center. Registration will be open during the following hours:

Tuesday, April 4	4:00 p.m. – 7:00 p.m.
Wednesday, April 5	7:00 a.m. – 7:30 p.m.
Thursday, April 6	7:00 a.m. – 6:00 p.m.
Friday, April 7	7:30 a.m. – 5:30 p.m.
Saturday, April 8	7:45 a.m. – 5:00 p.m.
Sunday, April 9	7:45 a.m. – 11:00 a.m.

### MEETING VENUES

Sessions, workshops and special events will take place at THREE Boston Properties: Hynes Convention Center, Sheraton Boston Hotel, and Boston Marriott Copley Place.

#### **Hynes Convention Center**

900 Boylston St., Boston, MA 02115  
617-954-2000

#### **Sheraton Boston Hotel**

39 Dalton St., Boston, MA 02199  
617-236-2000

#### **Boston Marriott Copley Place**

110 Huntington Ave, Boston, MA 02116  
617-236-5800

#### **To access the Sheraton Boston Hotel**

Depart the Hynes Convention Center from the Prudential Center Entrance and turn right into the Sheraton

#### **To access the Boston Marriott Copley Place**

Depart the Hynes Convention Center from the Prudential Center Entrance and turn left. Walk through the Prudential Center Arcade, into the Back Bay Arcade and cross the indoor Copley Bridge.

## AAG 2017 BOSTON WALKING MAP

Refer to Meeting Venues on page 9 for more information.





# Your source for all things Geography



Visit the Communication Center in the registration area to learn more about AAG websites, forums, publications, programs and much more.

- [www.aag.org](http://www.aag.org)
- [news.aag.org](http://news.aag.org)
- [jobs.aag.org](http://jobs.aag.org)
- [aag.org/studentopportunities](http://aag.org/studentopportunities)
- Mobile app
- Knowledge Communities
- Twitter, Facebook, LinkedIn
- SmartBrief
- Geogram
- AAG journals
- International Encyclopedia of Geography
- AAG books

## GEOGRAPHY JOBS



### Looking for a job in geography?

The **AAG Jobs in Geography Center** is the preeminent source for academic jobs in geography, as well as a wide variety of jobs in the public, private, and nonprofit sectors. It's the best place to find your next great opportunity or even your dream job!

Students can visit the **AAG Student and Postdoc Opportunities** website to find internships in your field of study, browse available listings for masters and doctoral openings, search for postdoc research positions and access helpful career planning tools. Check out [jobs.aag.org](http://jobs.aag.org) or [aag.org/studentopportunities](http://aag.org/studentopportunities) and ... *find your place*.

[jobs.aag.org](http://jobs.aag.org) | [aag.org/studentopportunities](http://aag.org/studentopportunities)

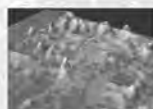


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**HYNES CONVENTION CENTER****Location of Meeting Rooms***See pages 96-97 for the Key to Room Numbers and Session Numbers.***Rooms by Level:**

<u>Level/Floor</u>	<u>Room Name</u>	<u>Room Code#</u>
Plaza Level.....	Meeting Room 101.....	1
Plaza Level.....	Meeting Room 102.....	2
Plaza Level.....	Meeting Room 103.....	3
Plaza Level.....	Meeting Room 104.....	4
Plaza Level.....	Meeting Room 105.....	5
Plaza Level.....	Meeting Room 107.....	6
Plaza Level.....	Meeting Room 108.....	7
Plaza Level.....	Meeting Room 109.....	8
Plaza Level.....	Meeting Room 110.....	9
Plaza Level.....	Meeting Room 111.....	10
Second Level.....	Meeting Room 200.....	11
Second Level.....	Meeting Room 201.....	12
Second Level.....	Meeting Room 202.....	13
Second Level.....	Meeting Room 203.....	14
Second Level.....	Meeting Room 204.....	15
Second Level.....	Meeting Room 205.....	16
Second Level.....	Meeting Room 206.....	17
Second Level.....	Meeting Room 209.....	18
Second Level.....	Meeting Room 210.....	19
Second Level.....	Hynes Hall C.....	20
Third Level.....	Meeting Room 301.....	21
Third Level.....	Meeting Room 302.....	22
Third Level.....	Meeting Room 303.....	23
Third Level.....	Meeting Room 304.....	24
Third Level.....	Meeting Room 305.....	25
Third Level.....	Meeting Room 306.....	26
Third Level.....	Meeting Room 307.....	27
Third Level.....	Meeting Room 308.....	28
Third Level.....	Meeting Room 309.....	29
Third Level.....	Meeting Room 310.....	30
Third Level.....	Meeting Room 311.....	31
Third Level.....	Meeting Room 312.....	32
Third Level.....	Meeting Room 313.....	33
Third Level.....	Suite 300.....	34
Third Level.....	Hynes Ballroom A.....	35
Third Level.....	Hynes Ballroom B.....	36
Third Level.....	Hynes Ballroom C.....	37

**Rooms Alphabetically:**

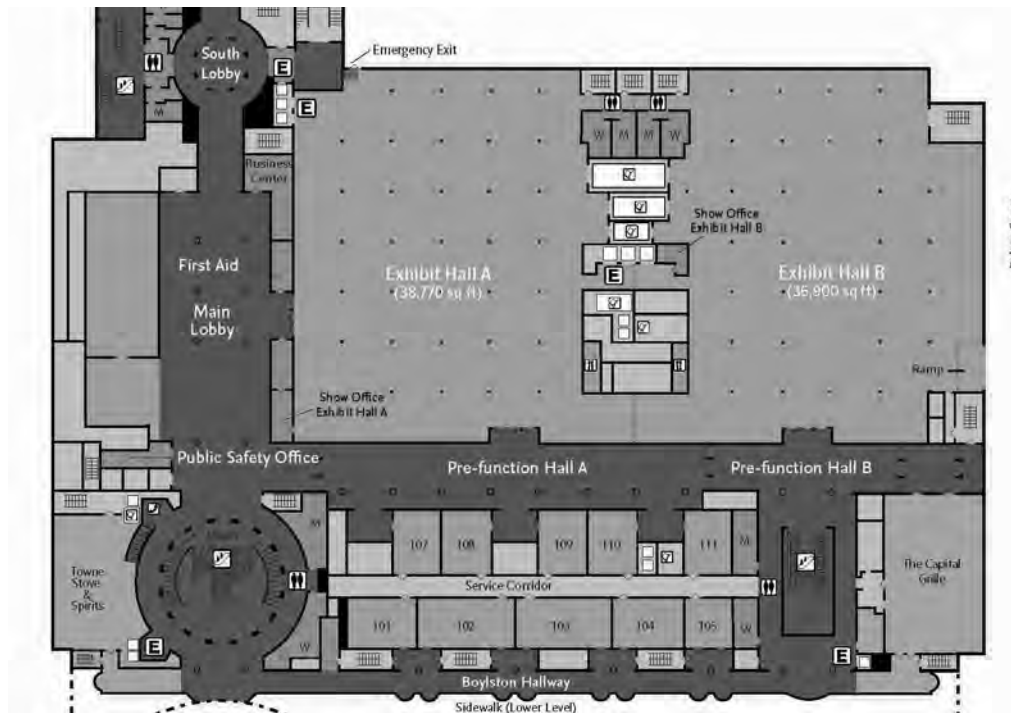
<u>Room Name</u>	<u>Level</u>	<u>Room Code#</u>
Hynes Ballroom A.....	Third Level.....	35
Hynes Ballroom B.....	Third Level.....	36
Hynes Ballroom C.....	Third Level.....	37
Hynes Hall C.....	Second Level.....	20
Meeting Room 101.....	Plaza Level.....	1
Meeting Room 102.....	Plaza Level.....	2
Meeting Room 103.....	Plaza Level.....	3
Meeting Room 104.....	Plaza Level.....	4
Meeting Room 105.....	Plaza Level.....	5
Meeting Room 107.....	Plaza Level.....	6
Meeting Room 108.....	Plaza Level.....	7
Meeting Room 109.....	Plaza Level.....	8
Meeting Room 110.....	Plaza Level.....	9
Meeting Room 111.....	Plaza Level.....	10
Meeting Room 200.....	Second Level.....	11
Meeting Room 201.....	Second Level.....	12
Meeting Room 202.....	Second Level.....	13
Meeting Room 203.....	Second Level.....	14
Meeting Room 204.....	Second Level.....	15
Meeting Room 205.....	Second Level.....	16
Meeting Room 206.....	Second Level.....	17
Meeting Room 209.....	Second Level.....	18
Meeting Room 210.....	Second Level.....	19
Meeting Room 301.....	Third Level.....	21
Meeting Room 302.....	Third Level.....	22
Meeting Room 303.....	Third Level.....	23
Meeting Room 304.....	Third Level.....	24
Meeting Room 305.....	Third Level.....	25
Meeting Room 306.....	Third Level.....	26
Meeting Room 307.....	Third Level.....	27
Meeting Room 308.....	Third Level.....	28
Meeting Room 309.....	Third Level.....	29
Meeting Room 310.....	Third Level.....	30
Meeting Room 311.....	Third Level.....	31
Meeting Room 312.....	Third Level.....	32
Meeting Room 313.....	Third Level.....	33
Suite 300.....	Third Level.....	34



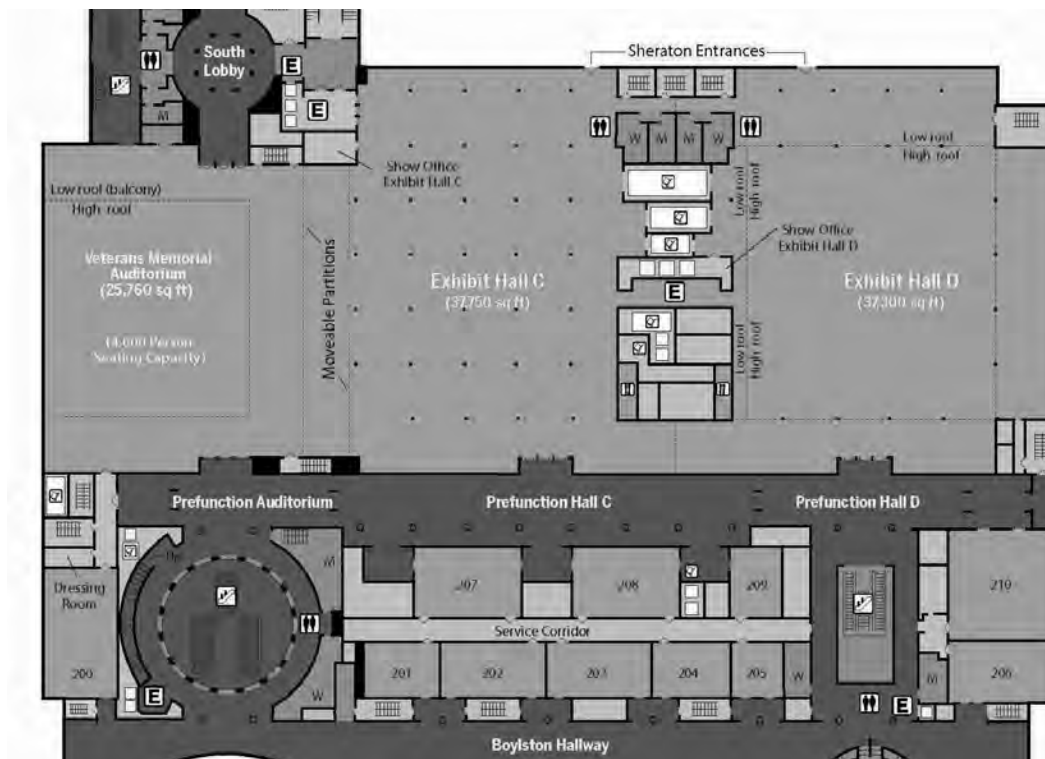
# HYNES CONVENTION CENTER

## Floor Plans - Plaza Level and Second Level

### PLAZA LEVEL



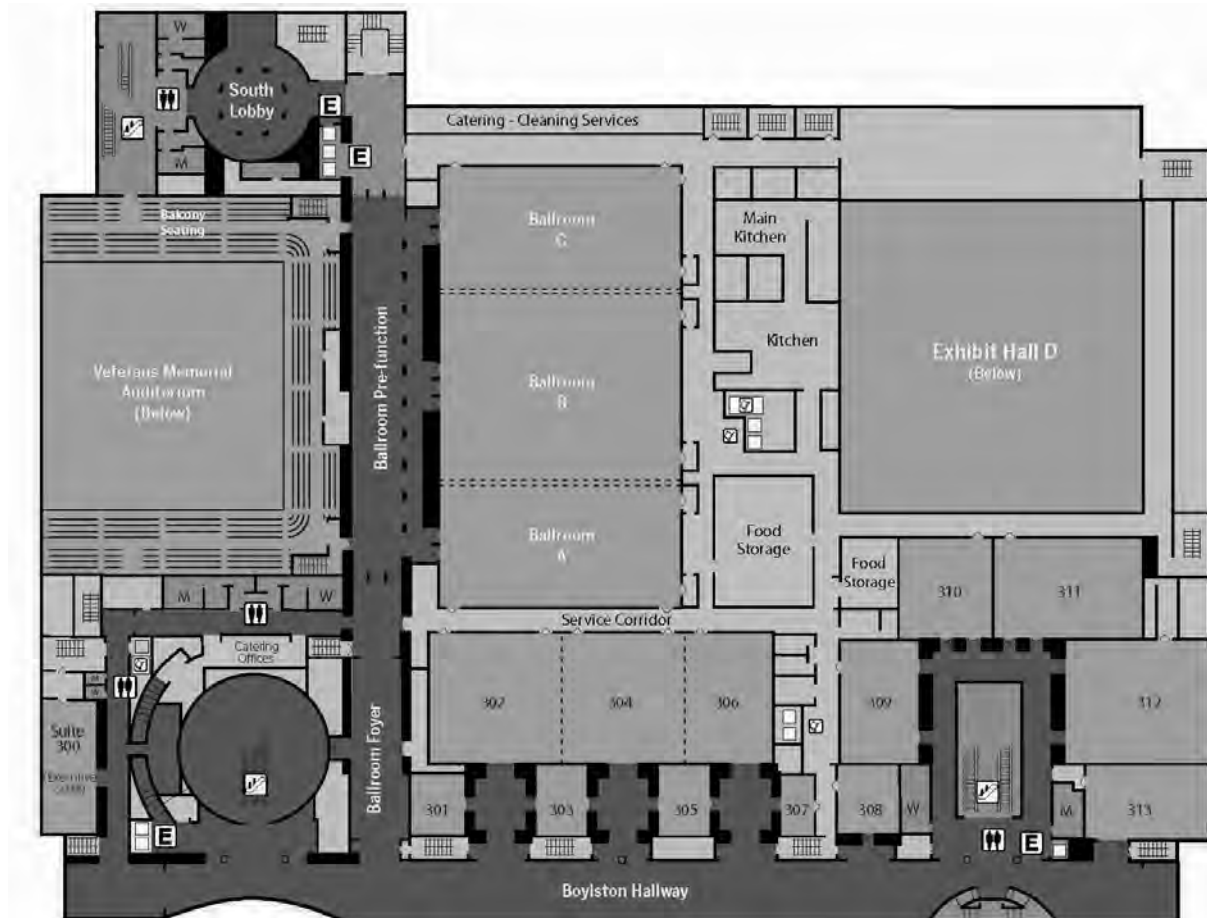
### SECOND LEVEL



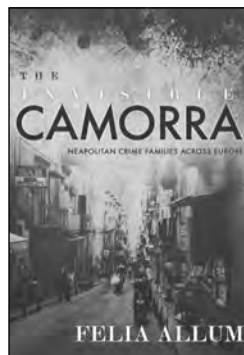
# HYNES CONVENTION CENTER

## Floor Plan - Third Level

### *THIRD LEVEL*



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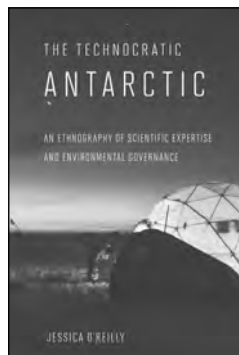
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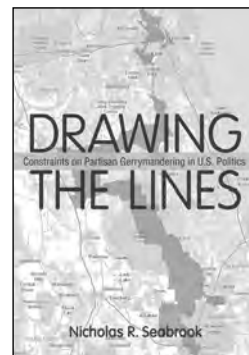
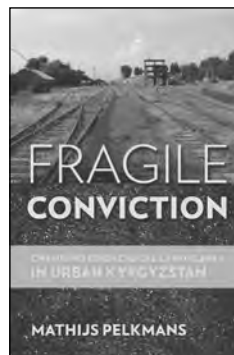
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# SHERATON BOSTON HOTEL

## Location of Meeting Rooms

See pages 96-97 for the Key to Room Numbers and Session Numbers.

### Rooms by Floor:

Floor/Floor	Room Name	Room Code#
Second Floor .....	Independence East .....	38
Second Floor .....	Independence West .....	39
Second Floor .....	Liberty B .....	40
Second Floor .....	Liberty C .....	41
Second Floor .....	Back Bay Ballroom A .....	42
Second Floor .....	Back Bay Ballroom B .....	43
Second Floor .....	Constitution A .....	44
Second Floor .....	Constitution B .....	45
Third Floor .....	Beacon A .....	46
Third Floor .....	Beacon B .....	47
Third Floor .....	Beacon D .....	48
Third Floor .....	Beacon E .....	49
Third Floor .....	Beacon F .....	50
Third Floor .....	Exeter A .....	51
Third Floor .....	Exeter B .....	52
Third Floor .....	Dalton A .....	53
Third Floor .....	Dalton B .....	54
Third Floor .....	Hampton A .....	55
Third Floor .....	Hampton B .....	56
Third Floor .....	Gardner A .....	57
Third Floor .....	Gardner B .....	58
Third Floor .....	Fairfax A .....	59
Third Floor .....	Fairfax B .....	60
Third Floor .....	Jefferson .....	61
Third Floor .....	Kent .....	62
Third Floor .....	Commonwealth .....	63

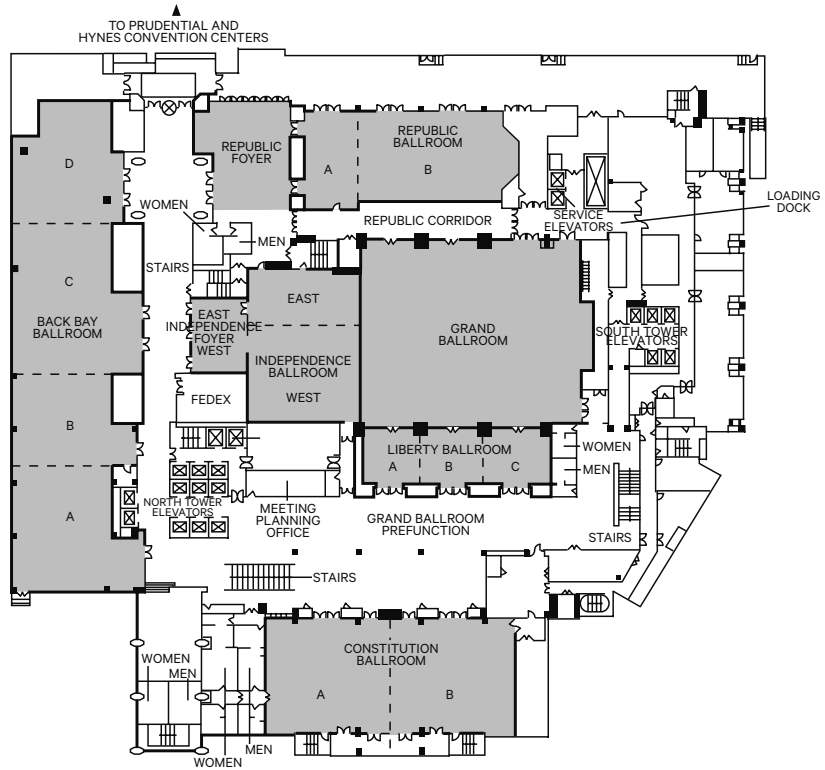
### Rooms Alphabetically:

Room Name	Floor	Room Code#
Back Bay Ballroom A .....	Second Floor .....	42
Back Bay Ballroom B .....	Second Floor .....	43
Beacon A .....	Third Floor .....	46
Beacon B .....	Third Floor .....	47
Beacon D .....	Third Floor .....	48
Beacon E .....	Third Floor .....	49
Beacon F .....	Third Floor .....	50
Commonwealth .....	Third Floor .....	63
Constitution A .....	Second Floor .....	44
Constitution B .....	Second Floor .....	45
Dalton A .....	Third Floor .....	53
Dalton B .....	Third Floor .....	54
Exeter A .....	Third Floor .....	51
Exeter B .....	Third Floor .....	52
Fairfax A .....	Third Floor .....	59
Fairfax B .....	Third Floor .....	60
Gardner A .....	Third Floor .....	57
Gardner B .....	Third Floor .....	58
Hampton A .....	Third Floor .....	55
Hampton B .....	Third Floor .....	56
Independence East .....	Second Floor .....	38
Independence West .....	Second Floor .....	39
Jefferson .....	Third Floor .....	61
Kent .....	Third Floor .....	62
Liberty B .....	Second Floor .....	40
Liberty C .....	Second Floor .....	41

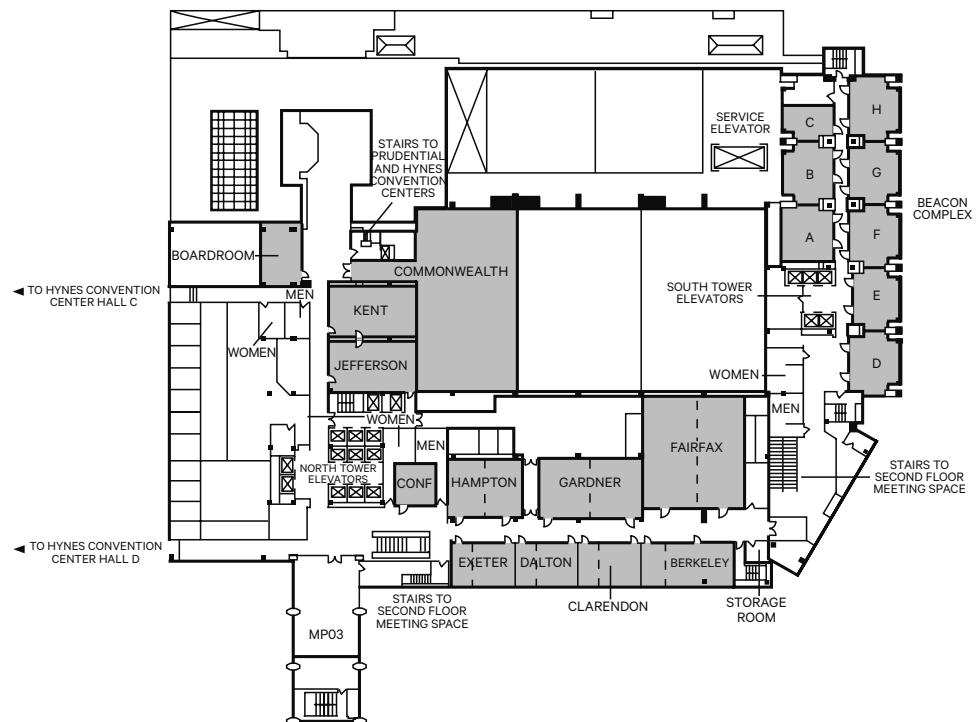
# SHERATON BOSTON HOTEL

## Floor Plans - Second and Third Floors

### SECOND FLOOR



### THIRD FLOOR



# BOSTON MARRIOTT COPLEY PLACE

## Location of Meeting Rooms

*See pages 96-97 for the Key to Room Numbers and Session Numbers.*

### Rooms by Floor:

Floor	Room Name	Room Code#
First Floor.....	Boylston.....	64
First Floor.....	Tremont.....	65
First Floor.....	Columbus I.....	66
First Floor.....	Columbus II.....	67
Second Floor.....	St. Botolph.....	68
Third Floor.....	Regis.....	69
Third Floor.....	Northeastern.....	70
Third Floor.....	Brandeis.....	71
Third Floor.....	MIT.....	72
Third Floor.....	Boston University.....	73
Third Floor.....	Simmons.....	74
Third Floor.....	Suffolk.....	75
Third Floor.....	Wellesley.....	76
Third Floor.....	Harvard.....	77
Third Floor.....	Tufts.....	78
Third Floor.....	Arlington.....	79
Third Floor.....	Berkeley.....	80
Third Floor.....	Clarendon.....	81
Third Floor.....	Dartmouth.....	82
Third Floor.....	Exeter.....	83
Third Floor.....	Fairfield.....	84
Fourth Floor.....	Salon H.....	85
Fourth Floor.....	Salon I.....	86
Fourth Floor.....	Salon J.....	87
Fourth Floor.....	Salon K.....	88
Fourth Floor.....	Vineyard.....	89
Fourth Floor.....	Yarmouth.....	90
Fourth Floor.....	Nantucket.....	91
Fourth Floor.....	Provincetown.....	92
Fourth Floor.....	Orleans.....	93
Fourth Floor.....	Hyannis.....	94
Fourth Floor.....	Falmouth.....	95
Fifth Floor.....	Maine.....	96
Fifth Floor.....	Massachusetts.....	97
Fifth Floor.....	New Hampshire.....	98
Fifth Floor.....	Vermont.....	99

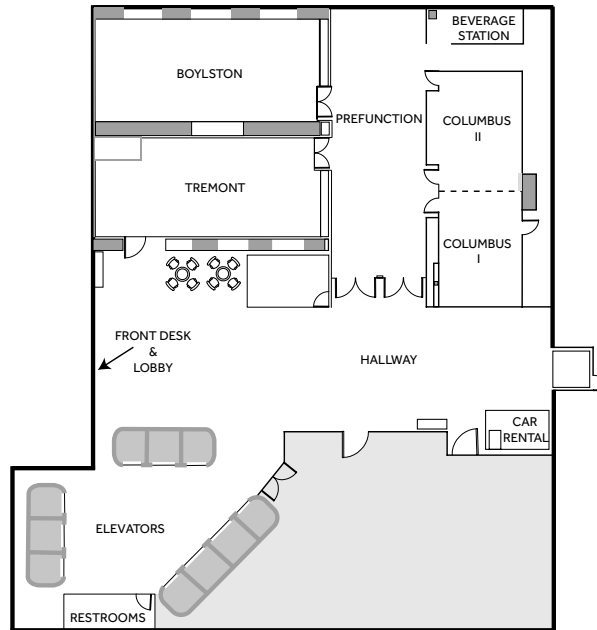
### Rooms Alphabetically:

Room Name	Floor	Room Code#
Arlington.....	Third Floor.....	79
Berkeley.....	Third Floor.....	80
Boston University.....	Third Floor.....	73
Boylston.....	First Floor.....	64
Brandeis.....	Third Floor.....	71
Clarendon.....	Third Floor.....	81
Columbus I.....	First Floor.....	66
Columbus II.....	First Floor.....	67
Dartmouth.....	Third Floor.....	82
Exeter.....	Third Floor.....	83
Fairfield.....	Third Floor.....	84
Falmouth.....	Fourth Floor.....	95
Harvard.....	Third Floor.....	77
Hyannis.....	Fourth Floor.....	94
Maine.....	Fifth Floor.....	96
Massachusetts.....	Fifth Floor.....	97
MIT.....	Third Floor.....	72
Nantucket.....	Fourth Floor.....	91
New Hampshire.....	Fifth Floor.....	98
Northeastern.....	Third Floor.....	70
Orleans.....	Fourth Floor.....	93
Provincetown.....	Fourth Floor.....	92
Regis.....	Third Floor.....	69
Salon H.....	Fourth Floor.....	85
Salon I.....	Fourth Floor.....	86
Salon J.....	Fourth Floor.....	87
Salon K.....	Fourth Floor.....	88
Simmons.....	Third Floor.....	74
St. Botolph.....	Second Floor.....	68
Suffolk.....	Third Floor.....	75
Tremont.....	First Floor.....	65
Tufts.....	Third Floor.....	78
Vermont.....	Fifth Floor.....	99
Vineyard.....	Fourth Floor.....	89
Wellesley.....	Third Floor.....	76
Yarmouth.....	Fourth Floor.....	90

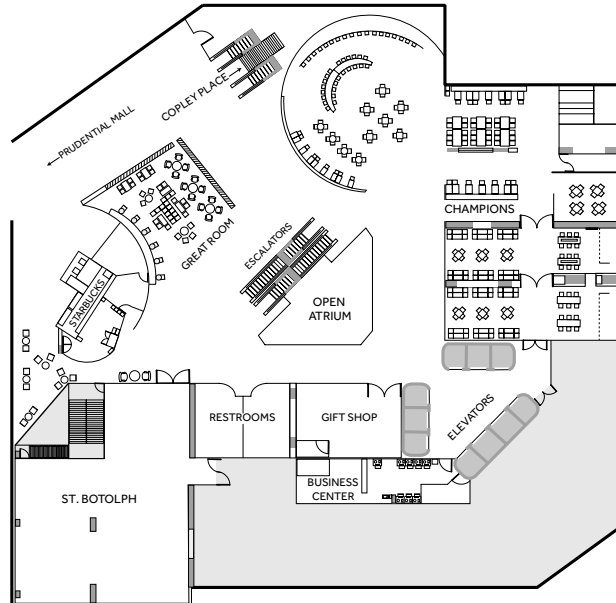
# BOSTON MARRIOTT COPLEY PLACE

## Foor Plans - First and Second Floors

### FIRST FLOOR



### SECOND FLOOR



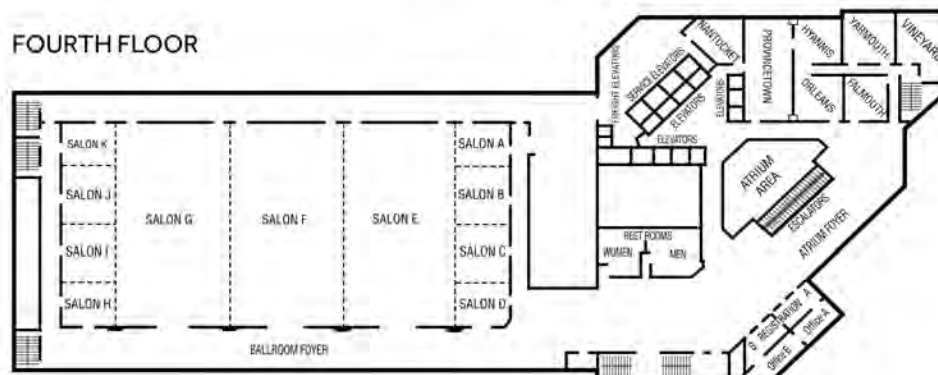
## BOSTON MARRIOTT COPLEY PLACE

### Foor Plans - Third, Fourth and Fifth Floors

### THIRD FLOOR



## FOURTH FLOOR



FIFTH FLOOR







# AAG SNAPSHOTS

## Learn About the Programs, Projects, and Resources of the AAG

Would you like to know more about the work of the AAG throughout the year, beyond the Annual Meeting? Are you interested in learning about additional resources and opportunities available to you through the AAG? Check out a new feature at the 2017 Annual Meeting in Boston, our AAG Snapshots series!

Throughout the week, AAG staff will be giving brief (5-10 minute) talks on different aspects of the projects, programs, and resources of the association, with website demonstrations showing how to access more information online. Topics range from making the most of student membership to AAG's efforts regarding public policy. We encourage everyone to attend these casual presentations and interact with AAG staff, asking your questions and learning more about the association and membership.

The AAG Snapshots will be held in the AAG Communications Center, located on Level 2 of the Hynes Convention Center near registration.

Day	Start Time	Staff	AAG Snapshots Topic
Wednesday, April 5	10:00 AM	Candice Luebbering	Make the Most of your Student Membership
Wednesday, April 5	2:40 PM	John Wertman	AAG & Policy
Wednesday, April 5	4:20 PM	Michael Solem	Supporting Geography Education
Thursday, April 6	10:00 AM	Candida Mannozi	AAG Award Opportunities
Thursday, April 6	3:20 PM	Mark Revell	Disciplinary Data Dashboard
Thursday, April 6	5:20 PM	Michael Solem	Supporting Geography Education
Friday, April 7	10:00 AM	John Wertman	AAG & Policy
Friday, April 7	3:20 PM	Candice Luebbering	Make the Most of your Student Membership
Friday, April 7	5:20 PM	Jennifer Cassidento	Know our Journals, Submit your Manuscripts
Saturday, April 8	10:00 AM	Candida Mannozi	Service Opportunities in the AAG
Saturday, April 8	3:20 PM	Jennifer Cassidento	Know our Journals, Submit your Manuscripts
Saturday, April 8	5:20 PM	Candice Luebbering	The GeoMentors Program

## PLENARY SESSIONS AND SPECIAL EVENTS

### WEDNESDAY, APRIL 5

#### **AAG Council Town Hall Meeting - *Special Event***

Wednesday, April 5, 12:00 p.m. - 12:40 p.m.

Room: *Commonwealth, Sheraton, Third Floor*

#### **AAG Annual Meeting Opening Session**

Wednesday, April 5, 6:30 p.m. - 8:30 p.m.

Room: *Ballroom B, Hynes, Third Level*

Welcoming Remarks: **Douglas Richardson**,  
American Association of Geographers

#### **Presidential Plenary: “Geographies of Bread and Water in the 21st Century” – *Plenary Session***

Organizer and Moderator: **Glen M. MacDonald**,  
University of California - Los Angeles

Panelists:

**Ruth DeFries**, Columbia University;

**Peter Gleick**, Pacific Institute

Discussants:

**Laura-Anne Minkoff-Zern**, Syracuse University;

**William G. Moseley**, Macalester College

Burgeoning global population along with increasing appetite for high-protein or resource demanding food choices may double demands on world agriculture by 2050. At the same time groundwater depletion and climate change are negatively impacting the availability of sufficient water to meet agricultural and domestic freshwater demands in many regions. Compounding these challenges are socioeconomic forces, including armed conflicts and state collapse that negatively affect agricultural productivity, food transference and water resources. The challenges to food and water security over the 21st century represent an increasing and potentially existential threat to global society. These issues are fundamentally geographical in nature and should form a central research and educational focus of geography.

#### **AAG Physical Geography Symposium Keynote Lecture: Human Environmental Interactions and the Legacy of Karl Butzer in the Physical Geography and Beyond 1**

Wednesday, April 5, 4:40 p.m. - 6:20 p.m.

Room: *Room 302, Hynes, Third Level*

Organizers: **Timothy Beach**, University of Texas at Austin; **Tripti Bhattacharya**; **Carlos E. Cordova**, Oklahoma State University

Chair: **Timothy Beach**, University of Texas at Austin

Introduction: **Timothy Beach**, University of Texas at Austin

Speakers:

**Sheryl Luzzadder-Beach**, University of Texas-Austin

**Timothy Beach**, University of Texas at Austin,  
*The Legacy of Karl Butzer in Physical Geography and Beyond.*

**C Neil Roberts**, University of Plymouth,  
*Good, bad or ugly? Human transformation of the Mediterranean world.*

**B. L. Turner II**, Arizona State University,  
*Reflections on Karl W. Butzer's Cultural Ecology.*

The long-term interplay of humans and the physical environment is one of Physical Geography's oldest and richest traditions. The idea has evolved into many directions from Alexander von Humboldt to 2016 AAG Physical Geography Symposium on the Anthropocene. One of the most important contributors to this tradition of studying human interactions with the environment was Prof. Karl W. Butzer, who in many senses founded the field and coined the term geoarchaeology. Butzer had among the profession's most decorated careers in our discipline's history.

### THURSDAY, APRIL 6

#### **GIS & Technology Poster Session**

Thursday, April 6, 8:00 a.m. - 11:40 a.m.

Room: *Hall C, Hynes, Second Level*

Poster setup: 7:30 a.m. - 8:00 a.m.

Poster display and discussion: 8:00 a.m. - 11:40 a.m.

## PLENARY SESSIONS AND SPECIAL EVENTS

### Uncertainty and Context in Geography and GIScience Theme - Opening Plenary

Thursday, April 6, 10:00 a.m. - 11:40 a.m.

*Room: Independence West, Sheraton, Second Floor*

Organizers: **Mei-Po Kwan**, University of Illinois at Urbana-Champaign; **Daniel Griffith**, University of Texas at Dallas; **Tim Schwanen**, University of Oxford; **Michael Goodchild**, University of California, Santa Barbara)

Chair: **Tim Schwanen**, University of Oxford

Speakers:

**Mei-Po Kwan**, University of Illinois at Urbana-Champaign;

**Michael F. Goodchild**, University of California

Discussant: **David Berrigan**, U.S. National Institutes of Health - National Cancer Institute

### Need for Public Intellectuals in a Trump America: Strategies for Communication, Engagement, and Advocacy

Thursday, April 6, 10:00 a.m. - 11:40 a.m.

*Room: Room 312, Hynes, Third Level*

Organizer and Chair: **Derek H. Alderman**, University of Tennessee

Panelists:

**Derek H. Alderman**, University of Tennessee;  
**Meg Gilley**, COMPASS;

**Joshua F. Inwood**, Pennsylvania State University;

**Sriram Khe**, Western Oregon University;

**William G. Moseley**, Macalester College;

**Rebecca Maria Torres**, University of Texas at Austin;

**Joseph S. Wood**, University of Baltimore

**Willie Jamal Wright**, UNC - Chapel Hill

In the immediate wake of the election of President Donald Trump, it has become especially apparent that the country will likely face great challenges in defending civil rights and liberties, advocating for the support of science and academic freedom, and enacting an inclusive worldview outside of nationalistic and market imperatives. The need for public intellectualism in Geography, while long important and under-developed, will grow significantly as we address and even challenge policies that threaten some of the core values of the discipline.

The American Association of Geographers has already begun to respond to major issues and controversies facing the geographical community in Trump America, but no one organization has the capacity to respond meaningfully and completely to every challenge we will likely encounter. It will be necessary to complement actions taken by the AAG with geographers, working individually and collectively, within their own communities, universities, and workplaces to effect change. Yet, many of us were not trained to move outside the Academy or wider industry circles to engage with the public, policy communities, and the media. And in some instances, our employers have discouraged such practices.

This panel brings together voices who can speak to the urgent need for more public intellectuals in Geography while also sharing their own experiences, strategies, and practical advice in the areas of public communication, engagement, and advocacy. Panelists will address a number of tools at the disposal of public intellectuals: the writing of op-eds and columns/blogs, conducting interviews with the media and the strategic use of social media, organizing of teach-ins and public forums on issues, serving on public commissions and inquiries, informing and holding elected officials accountable, working with community groups and organizations, and carrying out other forms of scholar-activism and public engagement.

### Department Chairs Luncheon - Special Event

Thursday, April 6, 11:40 a.m. - 2:00 p.m.

*Room: Room 210, Hynes, Second Level*

The Department Chairs' Luncheon, chaired by AAG Vice President, Derek Alderman, is an opportunity for existing or incoming Department or Program Chairs to discuss issues of administrative importance and share strategies for success. There is a \$35 registration fee to cover the cost of the lunch. Please see the AAG Registration Desk if you wish to register for this event. The discussion topic in Boston will be: "How Geography Departments Can Benefit from Becoming Better Storytellers: Sharing ideas and innovations for program marketing, undergraduate recruitment, alumni relations, and wider public outreach."

## PLENARY SESSIONS AND SPECIAL EVENTS

### Special Session featuring Rush Holt, CEO of the American Association for the Advancement of Science (AAAS): “Advancing Science in the Public Arena”

Thursday, April 6, 11:50 a.m. - 1:10 p.m.  
Room: Room 103, Hynes, Third Level

Organizer and Chair: **Douglas Richardson**, American Association of Geographers

Speaker: **Rush Holt**, AAAS

Discussants: **David Berrigan**, U.S. National Institutes of Health - National Cancer Institute  
**Antoinette WinklerPrins**, National Science Foundation

Rush D. Holt, Ph.D., chief executive officer of the American Association for the Advancement of Science (AAAS), will deliver a featured talk entitled, “Advancing Science in the Public Arena.” Holt is a Phi Beta Kappa graduate of Carleton College in Northfield, Minnesota, and he holds M.A. and Ph.D. degrees in physics from New York University. He is an elected fellow of AAAS, the American Physical Society, and Sigma Xi, and he holds honorary degrees from multiple universities. He is also a former Congressman for New Jersey and Jeopardy Champion.

### A New Map of Global Ecological Marine Units (EMUs) - An Environmental Stratification Approach

Thursday, April 6, 1:20 p.m. - 3:00 p.m.  
Room: Room 200, Hynes, Second Level

Organizer: American Association of Geographers  
Introduction: **Becky Pendergast**, American Association of Geographers

Speakers:

**Roger G Sayre**, PhD, United States Geological Survey;

**Dawn J. Wright**, Esri; **Charlie Frye**, Esri;  
**Sean P. Breyer**, Esri; **Kevin A. Butler**, Esri; **Keith Van Graafeiland**, Esri

In this U.S. Geological Survey-sponsored session, we will present a new global ecological marine units (EMU) map and booklet developed in an innovative public/private/NGO/academia partnership between

the USGS, Esri, and scientists from other government organizations, NGOs, and universities. An AAG-published booklet characterizing the EMU has been provided to all conferencegoers to this meeting, and we will describe the work further in a set of presentations and live demonstrations of the data and apps. This work is a first-of-its-kind effort to produce a globally comprehensive and consistent, data derived, and true 3D marine ecosystems map and dataset. The EMU resources are open access, and include an EMU Explorer tool which allows anyone with an internet connection to query any point on the surface of the ocean and be provided with physical and chemical environmental information from the sea surface to the seafloor, and a description of the EMU to which the point belongs. The EMU data are intended to be useful for a variety of research and management applications, including climate change impact assessments, ecosystem accounting, and marine protected area network planning.

### Human Geography Poster Session I

Thursday, April 6, 1:20 p.m. - 5:00 p.m.  
Room: Hall C, Hynes, Second Level

Poster setup: 1:00 p.m. - 1:20 p.m.

Poster display and discussion: 1:20 p.m. - 5:00 p.m.

### Noam Chomsky - A Continuing Conversation with Geographers - Plenary Session

Thursday, April 6, 5:20 p.m. - 7:00 p.m.  
Room: Ballroom B, Hynes, Third Level

Organizer and Moderator: **Douglas Richardson**, American Association of Geographers

Speaker: **Noam Chomsky**, MIT

The AAG has selected Noam Chomsky as its 2017 AAG Atlas Award recipient. Chomsky will engage in a conversational interview with AAG Executive Director Doug Richardson, as he has several times previously. The audience will have an opportunity to ask questions following the interview.

Chomsky will also receive the **AAG Atlas Award**, designed to recognize and celebrate outstanding, internationally-recognized leaders who advance world understanding in exceptional ways. The image of

## PLENARY SESSIONS AND SPECIAL EVENTS

Atlas bearing the weight of the world on his shoulders is a powerful metaphor for this award program, as our nominees are those who have taken the weight of the world on their shoulders and moved it forward, whether in science, politics, scholarship, or the arts. Primatologist Jane Goodall, international human rights and political leader Mary Robinson, and civil rights icon Julian Bond have been the recipients of the first three AAG Atlas Awards.

### **FRIDAY, APRIL 7**

#### **Human Geography Poster Session II**

Friday, April 7, 8:00 a.m. - 11:40 a.m.

*Room: Hall C, Hynes, Second Level*

Poster setup: 7:30 a.m. - 8:00 a.m.

Poster display and discussion: 8:00 a.m. - 11:40 a.m.

#### **Honorary Geographer James Hansen**

Friday, April 7, 10:00 a.m. - 11:40 a.m.

*Room: Room 210, Hynes, Second Level*

Organizer: American Association of Geographers

Moderator: **Glen M. MacDonald**, University of California - Los Angeles

Speaker: **James Hansen**, Columbia University

James Hansen, known for his climate research and his Congressional testimony on climate change that raised awareness of global warming, will deliver a featured talk on climate change, moderated by AAG President Glen MacDonald. He will also be honored as the 2017 AAG Honorary Geographer during the AAG Awards Luncheon.

#### **Sarah Bednarz' Past President's Address: "Locating Geography Education" and AAG Presidential Achievement Award Presentation- Plenary Session**

Friday, April 7, 12:00 p.m. - 1:10 p.m.

*Room: Room 312, Hynes, Third Level*

Organizer: American Association of Geographers

Introduction: **Glen M. MacDonald**, University of California - Los Angeles

Speaker: **Sarah Witham Bednarz**, Texas A&M University

AAG Past President Sarah Witham Bednarz will explore the evolving role, nature, and relevance of geography education as viewed by former presidents of the AAG from 1910 to the present. AAG presidential addresses have, at times, commented directly on education issues; at other times the topic has been avoided, if not ignored. What changes have occurred over time in how geography education is perceived and valued? What persistent educational concerns has the discipline wrestled with? How has the discipline, represented by its leaders, addressed broader social, cultural, and political factors that affect the production of new geographic knowledge and the reproduction of geographers?

Bednarz also will confer the AAG Presidential Achievement Award to Roger Downs, Professor of Geography at Pennsylvania State University, after her Past President's Address.

#### **Physical Geography Poster Session I**

Friday, April 7, 1:20 p.m. - 5:00 p.m.

*Room: Hall C, Hynes, Second Level*

Poster setup: 1:00 p.m. - 1:20 p.m.

Poster display and discussion: 1:20 p.m. - 5:00 p.m.

A reception for the Symposium on Physical Geography: "Human-Environment Interactions" will take place in the poster area from 3:00 pm - 5:00 pm.

#### **AAG International Reception: Celebrating the International Encyclopedia of Geography - Special Event**

Friday, April 7, 7:00 p.m. - 9:00 p.m.

*Room: Ballroom B, Hynes, Third Level*

This reception is an opportunity to see old friends and meet colleagues at the AAG Annual Meeting. There will be food, drinks, music, and interaction with IEG authors and editors. All attendees are invited to attend. Two free drink tickets are provided in your registration packet. Music will be provided by Flipside.

## PLENARY SESSIONS AND SPECIAL EVENTS

### SATURDAY, APRIL 8

#### **Physical Geography Poster Session II**

Saturday, April 8, 8:00 a.m. - 11:40 a.m.

*Room: Hall C, Hynes, Second Level*

Poster setup: 7:30 a.m. - 8:00 a.m.

Poster display and discussion: 8:00 a.m. - 11:40 a.m.

#### **Uncertainty and Context in Geography and GIScience Featured Theme Closing Plenary**

Saturday, April 8, 11:50 a.m. - 1:10 p.m.

*Room: Independence West, Sheraton, Second Floor*

Organizer and Chair: **Mei-Po Kwan**, University of Illinois at Urbana-Champaign

Speakers:

**Tim Schwanen**, University of Oxford;

**Wenzhong Shi**, The Hong Kong Polytechnic University;

**Jamie Pearce**, University of Edinburgh

Discussant: **Daniel A. Griffith**, U. of Texas at Dallas

#### **Linking Geographical Science to Policy: Opportunities at the U.S. National Academies of Science**

Saturday, April 8, 1:20 p.m. - 3:00 p.m.

*Room: Room 102, Hynes, Plaza Level*

Organizer and Chair: **Carol P. Harden**, University of Tennessee

Panelists:

**Anthony J. Bebbington**, Clark University;

**Nancy L. Jackson**, New Jersey Institute Of Technology;

**William D. Solecki**, Hunter College - CUNY;

**Marilyn A. Brown**, Georgia Institute of Technology;

**Michael Jerrett**, University of California

Discussants:

**Thomas J. Baerwald**, National Science Foundation;

**Douglas Richardson**, American Association of Geographers

The Geographical Sciences Committee (GSC) of the U.S. National Academies of Science exists to provide

high-quality, objective, scientific, technical, and policy advice and recommendations to society and to government at all levels, i.e., to provide geographical science to shape policy. The Committee responds to specific requests from federal agencies and other organizations and can also initiate workshops or studies to address important contemporary problems by analyzing and synthesizing existing knowledge. This panel discussion is intended to better acquaint AAG members with the work of the Geographical Sciences Committee and to engage geographers in an open conversation about important societal issues that could or should be informed by geographical science. Contributions from current committee members and representatives of organizations that have supported the GSC's work will introduce the structure and function of the Geographical Sciences Committee within the National Academies, with examples of the Committee's activities and products, and an open discussion will solicit and consider topics for future initiatives.

#### **David Harvey Feature Lecture: "Marx, Capital and the Madness of Economic Reason"**

Saturday, April 8, 3:20 p.m. - 5:00 p.m.

*Room: Ballroom B, Hynes, Third Level*

Organizers: **Douglas Richardson**, American Association of Geographers and  
**Derek H. Alderman**, University of Tennessee

Introduction: **Derek H. Alderman**, University of Tennessee

Speaker: **David Harvey**, CUNY

David Harvey, one of the most influential figures in geography and urban studies, and among the most cited intellectuals of all time across the humanities and social sciences, will deliver a featured lecture, "Marx, Capital and the Madness of Economic Reason."

For geographers and non-geographers across many disciplines and languages, David Harvey has established the importance of space and uneven geographical development to the survival of capitalist accumulation, the perpetuation of inequality, and the rise of neoliberalism. His body of work demonstrates the highly creative and consequential place that geographers can have in engaging in and shaping broader transdisciplinary discussions and debates.

## PLENARY SESSIONS AND SPECIAL EVENTS

David Harvey will also receive the AAG Brunn Award for Creativity in Geography during the AAG Awards Luncheon on April 9, 2017. This annual AAG award recognizes a geographer who has demonstrated originality, creativity, and significant intellectual breakthroughs in geography.

### The 2016 U.S. Elections: Implications for Geography and Beyond

Saturday, April 8, 5:20 p.m. - 7:00 p.m.

*Room: Room 312, Hynes, Third Level*

Organizer and Moderator: **Glen M. MacDonald**,  
University of California - Los Angeles

Panelists:

**Sarah Witham Bednarz**, Texas A&M University;  
**Alexander B. Murphy**, University of Oregon;  
**Derek H. Alderman**, University of Tennessee;  
**Victoria A. Lawson**, University of Washington;  
**Julie Winkler**, Michigan State University;  
**Glen M. MacDonald**, University of California  
- Los Angeles

Discussant: **Douglas Richardson**, American  
Association of Geographers

### World Geography Bowl

Saturday, April 8, 7:00 p.m. - 11:00 p.m.

*Room: Rooms 101-105, Hynes, Plaza Level*

Student teams from the AAG's regional divisions will compete in a round-robin tournament starting at 7:00 p.m. in Rooms 101-105 at the Hynes Convention Center. The championship round will begin at approximately 10:00 pm.

World Geography Bowl Executive Director:  
**Jamison Conley**, West Virginia University  
World Geography Bowl Administrative Director:  
**Kelsey Taylor**, American Association of Geographers

## SUNDAY, APRIL 9

### 2017 AAG Awards Luncheon

Sunday, April 9, 11:50 a.m. - 2:00 p.m.

*Room: Constitution Ballroom, Sheraton, Second Floor*

Join colleagues and friends in honoring recipients of AAG Honors and other awards and prizes. The Awards Luncheon will be held on Sunday, April 9 in the Constitution Ballroom of the Sheraton Hotel from 11:50 a.m. - 2:00 pm.

The following Honors will be presented:

*AAG Lifetime Achievement Honors*  
Ruth Fincher, University of Melbourne  
David Robinson, Rutgers University

*AAG Distinguished Scholarship Honors*  
Michael Storper, University of California, Los Angeles  
Patrick Bartlein, University of Oregon

*AAG Ronald F. Abler Distinguished Service Honors*  
Kent Mathewson, Louisiana State University  
Julie Winkler, Michigan State University

*AAG Distinguished Teaching Award*  
Michael Pretes, University of Northern Alabama

Other awards that will be presented at the Luncheon include:

AAG Community College Awards, AAG Dissertation, and Research Grants, AAG Marcus Fund for Physical Geography, J. Warren Nystrom Dissertation Award, Marble-Boyle Undergraduate Achievement Awards, AAG Globe and Meridian Book Awards, AAG Program Excellence Award, AAG Susan Hardwick Excellence in Mentoring Award, Harold Rose Award for Anti-Racism Research and Practice, Stan Brunn Award for Creativity in Geography, Humboldt Award for Enduring Scholarship in Geography, and AAG Honorary Geographer, Atlas Award, and Presidential Achievement Award.

Additionally, 50-year AAG members and recipients of Specialty Group awards and honors will be recognized during the Luncheon.

### AAG Business Meeting - Special Event

Sunday, April 9, 2:00 p.m. - 3:00 p.m.

*Room: Fairfax, Sheraton, Third Floor*

AAG officers will present annual reports. All are welcome to attend.



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# The International Encyclopedia of Geography

**People, The Earth, Environment, and Technology**

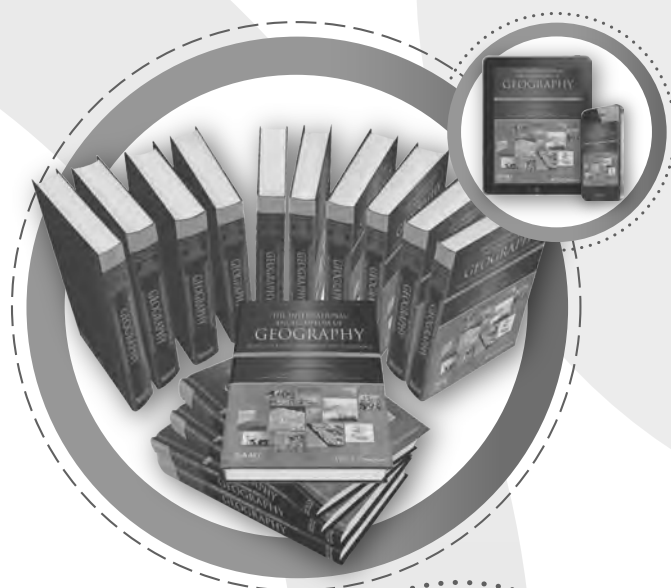
**Editor-in-Chief**  
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**People, The Earth, Environment, and Technology**

Editor-in-Chief

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## FEATURED THEMES

### **Mainstreaming Human Rights in Geography and the AAG**

#### **Organizing Committee:**

**Douglas Richardson**, Chair (AAG),  
**Sheryl Luzzadder-Beach** (University of Texas),  
**Jessica Wyndham** (AAAS Scientific Responsibility,  
 Human Rights and Law Program),  
**Audrey Kobayashi** (Queen's University)

Nearly all geographers are concerned about human rights, and in their personal and professional lives seek meaningful ways to act on these concerns and values. The AAG and the discipline of geography intersects with human rights in numerous ways. This special theme within the 2017 AAG Annual Meeting will explore intersections of Human Rights and Geography, and will build on the AAG's decade-long initiatives on Mainstreaming Human Rights in Geography and the AAG.

This theme will feature 50 sessions with more than 250 presentations at the intersection of human rights and geography. Speakers from leading human rights organizations, academia, government, and international organizations will address human rights challenges around the world.

#### **Opening Plenary**

##### **2636 Noam Chomsky Interview - A Continuing Conversation with Geographers**

Thursday, April 6, 5:20 p.m. - 7:00 p.m.

*Room: Ballroom B, Hynes, Third Level*

Organizer and Moderator: **Douglas Richardson**, American Association of Geographers

Speaker: **Noam Chomsky**, MIT

Chomsky will engage in a conversational interview with AAG Executive Director Doug Richardson, as he has several times previously, at this year's AAG Annual Meeting in Boston. The audience will have an opportunity to ask questions following the interview.

The AAG also has selected Noam Chomsky as its 2017 AAG Atlas Award recipient.

##### **2103 Human Rights: Humanitarian Disaster Response and Protecting Cultural Heritage**

Thursday, April 6, 8:00 a.m. - 9:40 a.m.

*Room: Room 103, Hynes, Plaza Level (Panel Session)*

Organizer: **John Wertman**, American Association of Geographers

Chair: **Lars Bromley**, United Nations Institute for International Development

#### **Panelists:**

**Stephane Bonamy**, ICRC;  
**Hilary N. Ervin**, Payson Center for International Development;  
**Lars Bromley**, United Nations Institute for International Development

##### **2203 Documenting Evidence for Human Rights Tribunals and Litigation Using Geographic Research and Tools**

Thursday, April 6, 10:00 a.m. - 11:40 a.m.

*Room: Room 103, Hynes, Plaza Level (Panel Session)*

Organizers: **John Wertman**, American Association of Geographers

Chair: **Theresa Harris**, AAAS

#### **Panelists:**

**Theresa Harris**, AAAS;  
**Susannah Sirkin**, Physicians for Human Rights;  
**Wesley J. Reisser**, US Department of State, George Washington University;  
**Ryan Burns**, University of Calgary

##### **2204 Mainstreaming Human Rights in Geomorphology and Water Resources (Sponsored by Geomorphology Specialty Group)**

Thursday, April 6, 10:00 a.m. - 11:40 a.m.

*Room: Room 104, Hynes, Plaza Level (Panel Session)*

Organizer and Chair: **Sheryl Luzzadder-Beach**, University of Texas-Austin

Introduction: **Sheryl Luzzadder-Beach**, University of Texas-Austin

#### **Panelists:**

**Mark Giordano**, Georgetown University;  
**Michael A. Urban**, University of Missouri;  
**Sheryl Luzzadder-Beach**, University of Texas-Austin;  
**Richard A. Marston**, Kansas State University;  
**Anne Chin**, University of Colorado Denver

##### **2232 Need for Public Intellectuals in a Trump America: Strategies for Communication, Engagement, and Advocacy**

Thursday, April 6, 10:00 a.m. - 11:40 a.m.

*Room: Room 312, Hynes, Third Level*

Organizer and Chair: **Derek H. Alderman**, University of Tennessee

#### **Panelists:**

**Derek H. Alderman**, University of Tennessee;  
**Meg Gilley**, COMPASS;  
**Joshua F. Inwood**, Pennsylvania State University;  
**Sriram Khe**, Western Oregon University;  
**William G. Moseley**, Macalester College;  
**Rebecca Maria Torres**, University of Texas at Austin;

## FEATURED THEMES

**Joseph S. Wood**, University of Baltimore  
**Willie Jamal Wright**, UNC - Chapel Hill

### 2303 Special session featuring **Rush Holt**, CEO of the American Association for the Advancement of Science (AAAS): “Advancing Science in the Public Arena”

Thursday, April 6, 11:50 a.m. - 1:10 p.m.

*Room: Room 103, Hynes, Plaza Level (Panel Session)*

Organizer and Moderator: **Douglas Richardson**, American Association of Geographers

Speaker: **Rush Holt**, AAAS: “Advancing Science in the Public Arena”

### 2503 Article 15: Understanding the Human Right to the Benefits of Science to Help Progress and Its Applications

Thursday, April 6, 3:20 p.m. - 5:00 p.m.

*Room: Room 103, Hynes, Plaza Level (Panel Session)*

Organizer and Chair: **Jessica Wyndham**, AAAS Scientific Responsibility, Human Rights and Law Program

Panelists:

**Jessica Wyndham**, AAAS Scientific Responsibility, Human Rights and Law Program

**Patricia Carbajales-Dale**, Clemson University

**Mark Frezzo**, University of Mississippi

Discussant: **Stephen Marks**, Harvard University

### 3219 Honorary Geographer **James Hansen**

Friday, April 7, 10:00 a.m. - 11:40 a.m.

*Room: Room 210, Hynes, Second Level*

Organizer: American Association of Geographers

Moderator: **Glen M. MacDonald**, University of California - Los Angeles

Speaker: **James Hansen**, Columbia University

### 3403 Human Rights & Climate Change: A High-Level Discussion

Friday, April 7, 1:20 p.m. - 3:00 p.m.

*Room: Room 103, Hynes, Plaza Level (Panel Session)*

Organizer and Chair: American Association of Geographers

Panelists:

**Colette Pichon Battle**, US Human Rights Network;  
**Colin Kelley**, International Research Institute for Climate and Society;

**Balakrishnan Rajagopal**, MIT

### 4203 Human Rights and Disabilities: High-Level Perspectives From the Academy and Beyond

Saturday, April 8, 10:00 a.m. - 11:40 a.m.

*Room: Room 103, Hynes, Plaza Level (Panel Session)*

Organizer: **John Wertman**, American Association of

Geographers

Chair: **Audrey L. Kobayashi**, Queen's University

Panelists:

**Nancy Ellen Hansen**, University of Manitoba;

**Robert Dinerstein**, American University,  
 Washington College of Law;

**Priscilla Rodriguez**, Disability Rights International

### 4403 International Human Rights Priorities: Featured Perspectives

Saturday, April 8, 1:20 p.m. - 3:00 p.m.

*Room: Room 103, Hynes, Plaza Level (Panel Session)*

Organizers: American Association of Geographers

Chair: **Douglas Richardson**, American Association of Geographers

Panelists:

**Michael Posner**, NYU Stern Center for Business and Human Rights;

**Terry Rockefeller**, Amnesty International USA;

**Beth Simmons**, University of Pennsylvania;

**Jessica Wyndham**, AAAS Scientific Responsibility, Human Rights and Law Program

**Tawanda Mutasah**, Amnesty International

### 4632 The 2016 U.S. Elections: Implications for Geography and Beyond

Saturday, April 8, 5:20 p.m. - 7:00 p.m.

*Room: Room 312, Hynes, Third Level*

Organizer and Moderator: **Glen M. MacDonald**,

University of California - Los Angeles

Panelists:

**Sarah Witham Bednarz**, Texas A&M University;

**Alexander B. Murphy**, University of Oregon;

**Derek H. Alderman**, University of Tennessee;

**Victoria A. Lawson**, University of Washington;

**Julie Winkler**, Michigan State University;

**Glen M. MacDonald**, University of California - Los Angeles

Discussant: **Douglas Richardson**, American Association of Geographers

### Session numbers in the Mainstreaming Human Rights in Geography and the AAG Featured Theme:

1105, 1106, 1205, 1405, 1505, 1605, 1606, **2103**, 2104, 2106, **2203**, **2204**, 2206, **2232**, **2403**, 2406, **2503**, 2506, **2636**, 3105, 3205, **3219**, 3248, **3403**, 3406, 3468, 3505, 3532, 3568, 3605, 3606, 3668, 4105, 4106, **4203**, 4205, 4206, **4403**, 4405, 4406, 4506, 4507, 4606, **4632**, 5106, 5107, 5206, 5207, 5406, 5407, 5506, 5507

For a more detailed program of sessions, please visit <http://www.aag.org/geohumanrights>.

## FEATURED THEMES

### Uncertainty and Context in Geography and GIScience

#### Scientific Committee:

**Co-Chairs:** **Mei-Po Kwan** (University of Illinois at Urbana-Champaign), **Daniel Griffith** (University of Texas at Dallas), **Tim Schwanen** (University of Oxford), **Michael Goodchild** (University of California, Santa Barbara)

**Committee Members:** Luc Anselin (University of Chicago), David Berrigan (National Cancer Institute, NIH), Ling Bian (University of Buffalo, State University of New York), Xiang Chen (Arkansas Tech University), Yongwan Chun (University of Texas at Dallas), Eric Delmelle (University of North Carolina at Charlotte), Martin Dijst (Utrecht University), Michael Emch (University of North Carolina at Chapel Hill), Stewart Fotheringham (Arizona State University), Daniel Goldberg (Texas A&M University), Peng Gong (Tsinghua University), Sue Grady (Michigan State University), Michael Jerrett (University of California, Los Angeles), Poh Chin Lai (University of Hong Kong), Nina Lam (Louisiana State University), David Lopez-Carr (University of California, Santa Barbara), Jing Ma (Beijing Normal University), Sara McLafferty (University of Illinois at Urbana-Champaign), Jeremy Mennis (Temple University), Jamie Pearce (University of Edinburgh), Douglas Richardson (American Association of Geographers), Clive Sabel (Aarhus University), John Shi (Hong Kong Polytechnic University), Xun Shi (Dartmouth University), Kathleen Stewart (University of Maryland), Zaria Tatalovich (National Cancer Institute, NIH), Yonette Thomas (American Association of Geographers), Paul Torrens (New York University), Shaowen Wang (University of Illinois at Urbana-Champaign), Michael Widener (University of Toronto - St. George), David Wong (George Mason University), Chaowei Yang (George Mason University), Eun-Hye Enki Yoo (University at Buffalo, State University of New York), Li Zhu (National Cancer Institute, NIH)

Uncertainty and context pose fundamental challenges in geographic research and GIScience. Geospatial data are imbued with error (e.g., measurement and sampling error), and understanding of the effects of contextual influences on human behavior and experience are often obfuscated by various types of uncertainty (e.g., contextual uncertainties, algorithmic uncertainties, and uncertainty arising from different spatial scales and zonal schemes). Identifying the “true causally relevant” spatial and temporal contexts that

influence people’s behavior and experience is thus also challenging, since people move around in their daily lives and over their life courses and experience the influences of many different contexts. To generate reliable geographic knowledge, these uncertainties and contextual issues need to be addressed.

This theme within the 2017 AAG Annual Meeting will explore research frontiers and advances in theory, methods, and practice that address the challenges of uncertainty and context in geography and GIScience.

#### **2239 Uncertainty and Context in Geography and GIScience Featured Theme Opening Plenary**

Thursday, April 6, 10:00 a.m. - 11:40 a.m.

*Room: Independence West, Sheraton, Second Floor*

Organizers: **Mei-Po Kwan**, University of Illinois at Urbana-Champaign; **Daniel Griffith**, University of Texas at Dallas; **Tim Schwanen**, University of Oxford; **Michael Goodchild**, University of California, Santa Barbara

Chair: **Tim Schwanen**, University of Oxford

Speakers:

**Mei-Po Kwan**, University of Illinois at Urbana-Champaign;

**Michael F. Goodchild**, University of California

Discussant: **David Berrigan**, U.S. National Institutes of Health - National Cancer Institute

#### **4339 Uncertainty and Context in Geography and GIScience Featured Theme Closing Plenary**

Saturday, April 8, 11:50 a.m. - 1:10 p.m.

*Room: Independence West, Sheraton, Second Floor*

Organizer and Chair: **Mei-Po Kwan**, University of Illinois at Urbana-Champaign

Speakers:

**Tim Schwanen**, University of Oxford;

**Wenzhong Shi**, The Hong Kong Polytechnic University;

**Jamie Pearce**, University of Edinburgh

Discussant: **Daniel A. Griffith**, U. of Texas at Dallas

Session numbers in the Uncertainty and Context in Geography and GIScience Theme: 2139, 2140, **2239**, 2439, 2440, 2539, 2540, 3138, 3141, 3157, 3238, 3241, 3438, 3440, 3441, 3538, 3540, 3541, 3638, 4140, 4141, 4240, 4241, **4339**, 4440, 4441, 4540, 4541, 4641

For a more detailed program of sessions, please visit <http://www.aag.org/geocontext>.

## FEATURED THEMES

### **Geographies of Bread and Water in the 21st Century**

Organized by **Glen M. MacDonald**, University of California - Los Angeles, and the American Association of Geographers

Burgeoning global population along with increasing appetite for high-protein or resource demanding food choices may double demands on world agriculture by 2050. At the same time groundwater depletion and climate change are negatively impacting the availability of sufficient water to meet agricultural and domestic freshwater demands in many regions. Compounding these challenges are socioeconomic forces, including armed conflicts and state collapse that negatively affect agricultural productivity, food transference and water resources. The challenges to food and water security over the 21st century represent an increasing and potentially existential threat to global society. These issues are fundamentally geographical in nature and should form a central research and educational focus of geography.

Papers and sessions in the 2017 AAG Annual Meeting Geographies of Bread and Water in the 21st Century Theme will address the complex demands and challenges of food and water provision over the 21st century and the roles of physical, social, cultural and technological geographical research, education and public communication in formulating and implementing monitoring, adaptation and mitigation strategies.

### **1736 AAG Annual Meeting Opening Session and Presidential Plenary: "Geographies of Bread and Water in the 21st Century"**

Wednesday, April 5, 6:30 p.m. - 8:30 p.m.

*Room: Ballroom B, Hynes, Third Level*

Welcoming Remarks: **Douglas Richardson**, American Association of Geographers

Organizer and Moderator: **Glen M. MacDonald**, University of California - Los Angeles

Panelists:

**Ruth DeFries**, Columbia University;

**Peter Gleick**, Pacific Institute

Discussants:

**Laura-Anne Minkoff-Zern**, Syracuse University;

**William G. Moseley**, Macalester College

Session numbers in the Geographies of Bread and Water in the 21st Century Theme: 1121, 1122, 1221, 1222, 1421, 1422, 1521, 1522, 1622, **1736**, 2131, 2231, 2431, 2531, 3131, 3231, 3431, 3528, 3628, 4128, 4225, 4228, 4425, 4428, 4525, 4528, 4625, 4628

For a more detailed program of sessions, please visit <http://www.aag.org/breadandwater>.



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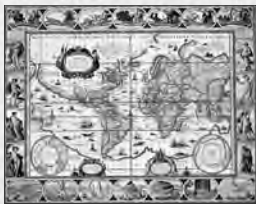


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# GeoMentor

## What is the AAG/Esri ConnectED GeoMentors Program?

Esri and the Association of American Geographers (AAG) are working together to develop a nationwide network of **GeoMentors** to support the U.S. Department of Education's ConnectED Program, for which Esri has agreed to donate free GIS software to all K–12 schools in the U.S. GeoMentors will help schools and teachers introduce GIS and associated geographic concepts into classrooms across the country.

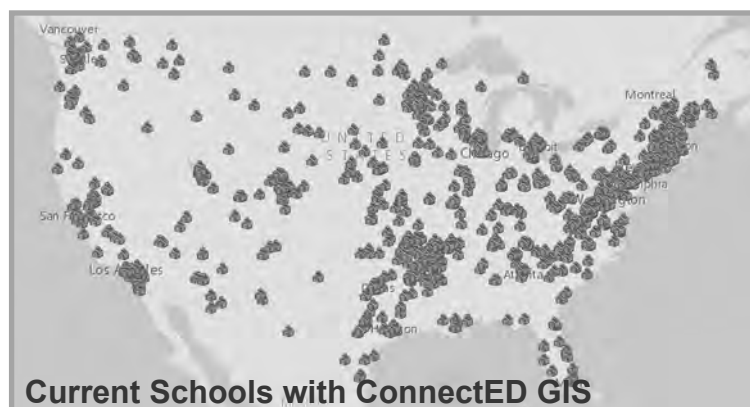


## Who can be a GeoMentor?

From undergraduate and graduate students to professors and geographic information scientists, we welcome the entire GIS and geography community to volunteer their skills and experience as GeoMentors.

## What do GeoMentors do?

GeoMentors play a pivotal role in improving GIS and geography education. The wide variety of outreach opportunities include advocating GIS adoption, helping schools get their free software, demonstrating available classroom exercises to teachers, and providing information about career and educational opportunities.



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## MEMORIAL SESSIONS

To commemorate notable geographers who have passed away in the past two years, friends and colleagues have organized tribute sessions in their honor.

### **2164, 2264, 2464, 2564 William Bunge (1928-2013) and Geography**

(Sponsored by History of Geography Specialty Group)

Thursday, April 6, 8:00 a.m. - 9:40 a.m., 10:00 a.m. - 11:40 a.m., 1:20 p.m. - 3:00 p.m., 3:20 p.m. - 5:00 p.m.  
*Room: Boylston, Marriott, First Floor* (Paper Sessions)

A series of four paper and panel discussions around the contributions made by William Bunge (1928-2013). Key participant in the 'quantitative revolution'; co-founder of the Detroit Geographical Expedition and Institute; and author of around a hundred texts including, *Theoretical Geography*, *Fitzgerald: Geography of a Revolution*, *Nuclear War Atlas*, and *Geography: The Innocent Science*; Bunge had a profoundly influential if unconventional life as a geographer. Constructive and critical reflections on his intellectual, political, and/or personal legacies are welcome in these discussions.

### **3231 The Legacy of Karl Butzer Beyond Physical Geography**

(Sponsored by Cultural and Political Ecology Specialty Group, Historical Geography Specialty Group, History of Geography Specialty Group, Geographies of Bread and Water in the 21st Century Featured Theme)

Friday, April 7, 10:00 a.m. - 11:40 a.m.  
*Room: Room 311, Hynes, Third Level* (Panel Session)

Karl W. Butzer (1934-2016) was a distinguished geographer--a Fellow of both the National Academy of Science, and the American Academy of Arts and Sciences. His contributions over a 60 year career were mainly in geomorphology, archaeology, the merger of the two into geoarchaeology. A true multi-talented scientist, Karl also possessed a humanist dimension that was known principally to his friends, close colleagues, and graduate students. This memorial session features contributions by a few of these individuals.

### **3408 Celebrating Susan Christopherson: A Panel Honoring her Life, Work, and Leadership in Economic Geography**

(Sponsored by Economic Geography Specialty Group)

Friday, April 7, 1:20 p.m. - 3:00 p.m.  
*Room: Room 109, Hynes, Plaza Level* (Panel Session)

Susan Christopherson, an economic geographer and professor of city and regional planning known for her scholarly work and expertise on regional economic development, died December 14, 2016 of cancer. This panel celebrates and honors Susan's accomplishments and leadership in the field of economic geography.

The panel includes discussions of Susan's contributions by several colleagues and collaborators from throughout her career as well as an opportunity for attendees to share their own experiences with Susan and her work.

### **3504 From Appalachia to Ogallala: Honoring Stephen (Steve) E. White**

(Sponsored by American Association of Geographers)

Friday, April 7, 3:20 p.m. - 5:00 p.m.  
*Room: Room 104, Hynes, Plaza Level* (Panel Session)

This is a memorial session honoring Stephen E. White (1947-2015). Steve was a professor of geography and former dean of the College of Arts and Sciences at Kansas State University. In his professional career spanning more than 40 years, Steve authored or co-authored over 75 articles and book chapters on such topics as population migration, human-environment interaction, and the economic and social impact of irrigation water use and groundwater management policies. His regional interests centered on the Appalachia in Kentucky, where he grew up, and the High Plains/Ogallala region of western Kansas. Steve was an award-winning educator and an insightful, kind and supportive colleague, friend, and mentor. Steve loved to laugh and always had a self-deprecating sense of humor. The panel will reflect on Steve's contributions to the discipline and celebrate his life.



## MEMORIAL SESSIONS

### **3563 In Honor of Tom Wilbanks**

(Sponsored by the Wilbanks Family, the Human Dimensions of Global Change Specialty Group, and the American Association of Geographers)

Friday, April 7, 3:20 p.m. - 5:00 p.m.

*Room: Commonwealth, Sheraton, Third Floor* (Panel Session and Reception)

This memorial event and reception will take place on Friday, April 7, 2017 from 3:20 p.m. – 5:00 p.m. in the Commonwealth Room at the Sheraton Hotel.

The Wilbanks family has created a new award, the AAG Thomas Wilbanks Award for Transformational Research in Geography, to honor Tom. Contributions to the Wilbanks Award may be made at [http://www.aag.org/Wilbanks\\_award\\_for\\_transformational\\_research](http://www.aag.org/Wilbanks_award_for_transformational_research). The family would also welcome your sharing this link, if you know of colleagues or organizations that would be interested in contributing.

Tom was a groundbreaking scientist addressing issues of global climate change and influencing environmental policy for Oak Ridge National Laboratory. He was a leader in the first comprehensive U.S. national energy plan and occupied key roles at the National Academy of Science. He was co-author and editor of multiple books, was named a Fellow of the American Association for the Advancement of Science, and named co-laureate for the Nobel Prize of Peace in 2007. It is an honor for us to host this event for such an accomplished scientist and hope those interested will attend.

### **4332 In honor of Doreen Massey**

(Sponsored by Socialist and Critical Geography Specialty Group, Latin America Specialty Group, Economic Geography Specialty Group)

Saturday, April 8, 11:50 a.m. - 1:10 p.m.

*Room: Room 312, Hynes, Third Level* (Panel Session)

Initiated by the editorial board of "Economic Geography," this panel commemorates the life and work of Doreen Massey.

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## SPECIAL DISPLAYS

### **Geographers on Film**

Geographers on Film is a collection of interviews conducted with hundreds of geographers since August 1970 including scholars who have shaped the discipline such as Carl Sauer, Richard Hartshorne, Wilbur Zelinsky, Richard Chorley, Mildred Berman, Harold Rose, Jan Monk, Yi-Fu Tuan and Rickie Sanders.

The late Maynard Weston Dow (1929 - 2011), Professor Emeritus at Plymouth State College, and Nancy Dow largely produced the series. The AAG and the Library of Congress are now the curators of the collection, responsible for preserving and providing broad access to it.

Selected films from the Geographers on Film Archive will be shown throughout the day on Friday, April 7, in Meeting Room 209, on Level 2 of the Hynes Convention Center.

### **AAG Shorts**

What kinds of films do geographers make? What makes a film geographical? Come and find out at AAG Shorts. Two special screenings for the first time at the AAG, showcasing the best geographical films from around the world. Short films (or highlights from feature films) that set out to explore some of the most important geographical debates today including the agency of nature, climate change, migration and gentrification. Accompanied by a short Q & A with the filmmakers.

Screenings will take place on Thursday, April 6 and Saturday, April 8 from 7:10 p.m. - 9:10 p.m. in Independence West, Sheraton, Second Floor.

### **AAG Mapathon**

All attendees are welcome to attend a four-day Mapathon, where they can join a community of online mappers to contribute to OpenStreetMap for humanitarian efforts. Using satellite imagery and freely available OpenStreetMap editing platforms, participants will trace, edit, and label key infrastructure (buildings, roads, etc.), environmental features, and other objects for the creation of openly available real data to produce maps that assist humanitarian and community efforts. Sessions will include paper and panel presentations on participatory research methods, interactive open source mapping demos, and networking opportunities for those in the humanitarian mapping community.

This year's AAG Mapathon Lounge will be located in Room 206, Second Level, Hynes Convention Center. Sessions will begin on Wednesday, April 5 and run through Saturday, April 8, with off-site events at MIT and an informal happy hour to round out the week.

#### **Sessions include:**

*Poster Display in Mapathon Lounge* (ongoing in the Mapathon Lounge)

Select posters and maps will be on display in the AAG Mapathon Lounge, featuring activities and research on Community Mapping, Open Cartographies, and Volunteered Geographic Information as well as work by organizing institutions supporting the AAG Mapathon. Visit the posters session, meet members of the participating and supporting organizations and join mapathon activities.

*Secondary Cities: Mapping for Resilience and Sustainability* (Mapathon Lounge, Thursday 10:00am-11:40am)

This session will focus on the US Office of the Geographer and Global Issues initiative, Secondary Cities. The fundamental aim of these projects is to identify critical data needs, utilize open source tools, and create robust datasets for sustainable futures. This session will provide an overview of Secondary Cities, describe a case study, and present methods for remote and local mapping of Secondary Cities.

*Map Jam I* (Mapathon Lounge, Thursday 11:40am-1:20pm)

A networking session with community organizers and students. Learn how to foster your own local OpenStreetMap community. In addition there will be an advanced mapping demonstration using JOSM, the advanced OpenStreetMap editor.

*Map Jam II* (Mapathon Lounge, Friday 8:00am-9:40am)

An open mapping session, this is a perfect time to take a break, sit-down and map. Meet fellow mappers, stop by even if you have half an hour to spare.

*MIT Mapathon* (MIT Campus Friday 1:30-6pm)

Join us across the river at MIT for the Friday afternoon Mapathon. We will be focusing Using satellite imagery and freely available OpenStreetMap editing platforms, participants will trace, edit, and label key infrastructure (buildings, roads, etc.), environmental features, and other objects for the creation of openly available real data to produce maps that assist humanitarian and community efforts.

The schedule for the day will include a short set of lightning talks by MIT students and researchers using OpenStreetMap and performing emergency mapping, an intro to some of the tools, and a mapathon

## SPECIAL DISPLAYS

with mapping projects supporting the Presidential Emergency Plan for Aids Relief (PEPFAR). RSVP at AAGMapathon.org.

*Resources for Expanding Open Geospatial Education* (Mapathon Lounge, Saturday 11:50pm-1:10pm)

Form discussion around open geospatial education. The panel will highlight currently available educational resources, and determine areas where additional resources are needed.

*Saturday Mapternoon* (Mapathon Lounge, Saturday 1:20pm-5:00pm)

This Mapternoon as we will focus on several mapping projects in Latin America. We will have lightning talks spread throughout the mapping sessions. Beginners are welcome as we will have tutorials and expert mapper support. All you need to bring is your laptop to participate.

### **Macro or Micro?**

**A visual art exhibition challenging our perceptions of scale**

By Stephen Young and Paul Kelly, Salem State University, Salem, Massachusetts

Through the intermingling of earth and life imagery generated via both satellite and electron-microscope, this body of work reveals patterns and similarities in the natural world between scales that are undetectable by the naked eye. The micro images capture details which are millimeters or less in size while the macro images show forms which are kilometers or larger in size - a difference in scale of a million times or more. This collaborative work bridges art and science, raising questions about how we interpret various points-of-view, the broader universe, and our place in it.

Come and see a selection of images from this exhibition which has been displayed at Boston's Museum of Science, Clark University, Yale University and the Sazmanab Center for Contemporary Art in Tehran, Iran among other locations.

Macro or Micro home page: <http://dgl.salemstate.edu/geography/Profs/Young/ART/Macro-Micro/MM-index.htm>

The Macro or Micro exhibit will be displayed outside of Hall C on the second level of the Hynes Convention Centerr

### **EarthView Globe**

EarthView - a 20-foot inflatable globe - is a walk-in geography classroom that regularly travels to schools to teach about our varied and inter-connected world.

The outside of the globe is a hand-painted, large map of the Earth's surface, showing biological communities, rivers, seas, landforms, continents, islands, oceans, and major cities. The inside of the globe reveals the positions of tectonic plate boundaries and ocean spreading centers, along with all of the detail visible from the outside.

The EarthView program is based in the geography department at Bridgewater State University in Massachusetts with the goal to teach students about the world, but also to emphasize the need for more geography instruction in primary and secondary schools. The EarthView is a great dramatization of a globalized world and it is an effective tool to bring the study of geography to students, teachers, and policy makers. <http://microsites.bridgew.edu/earthview>

The EarthView globe will be on display in the Exhibit Hall on Thursday, April 6, and Saturday, April 8.

## SPECIALTY GROUP HIGHLIGHTED SESSIONS

**AAG Specialty Groups are invited to highlight one special session each year. These sessions are listed below and include session number, time and location.**

### **Animal Geography Specialty Group**

**3357 Animal Geography Specialty Group Business Meeting (Sponsored by Animal Geography Specialty Group)**

Friday, April 7, 11:50 a.m. - 1:10 p.m.

*Room: Gardner A, Sheraton, Third Floor (Meeting)*

### **Applied Geography Specialty Group**

**1615 Applied Geography in Academia: Content, Curricula, Status, Methods, and Future (Sponsored by Applied Geography Specialty Group, Geography Education Specialty Group, AAG Careers and Professional Development Theme)**

Wednesday, April 5, 4:40 p.m. - 6:20 p.m.

*Room: Room 204, Hynes, Second Level (Paper Session)*

### **Asia Geography Specialty Group**

**3484 Special Session on urban climatology in Asia (Sponsored by Climate Specialty Group, Asian Geography Specialty Group, Regional Development and Planning Specialty Group)**

Friday, April 7, 1:20 p.m. - 3:00 p.m.

*Room: Fairfield, Marriott, Third Floor (Paper Session)*

### **Bible Geography Specialty Group**

**3508 Geopolitical Implications of the Military Tactics of Israel and Judah (Past, Present, and Future) and Their Ramifications on the Middle East Today (Sponsored by Bible Geography Specialty Group, Military Geography Specialty Group)**

Friday, April 7, 3:20 p.m. - 5:00 p.m.

*Room: Room 109, Hynes, Plaza Level (Panel Session)*

### **Cartography Specialty Group**

**4177 Cartographic Design and Information Visualization (Sponsored by Cartography Specialty Group, Geographic Information Science and Systems Specialty Group, Health and Medical Geography Specialty Group)**

Saturday, April 8, 8:00 a.m. - 9:40 a.m.

*Room: Harvard, Marriott, Third Floor (Paper Session)*

### **China Specialty Group**

**2526 China Specialty Group Keynote Session: Peter Bol "Towards a Spatial Analysis of China, Present and Past" (Sponsored by China Specialty Group)**

Thursday, April 6, 3:20 p.m. - 5:00 p.m.

*Room: Room 306, Hynes, Third Level (Panel Session)*

### **Communication Geography Specialty Group**

**4265 Media and Communication Geography Keynote Address: Dr. Tom Conley "For a Geography of Doubt" (Sponsored by Communication Geography Specialty Group)**

Saturday, April 8, 10:00 a.m. - 11:40 a.m.

*Room: Tremont, Marriott, First Floor (Panel Session)*

### **Community College Affinity Group**

**4133 Physical Geography: Advances in teaching the physical world in a lower division classroom (Sponsored by Community College Affinity Group, Geography Education Specialty Group)**

Saturday, April 8, 8:00 a.m. - 9:40 a.m.

*Room: Room 313, Hynes, Third Level (Panel Session)*

## SPECIALTY GROUP HIGHLIGHTED SESSIONS

### Cultural Geography Specialty Group

#### **3510 Cultural Geography Specialty Group**

**Marquee Address by Anne Whiston Spirn:**

**"Restoring Nature, Rebuilding Community: The West Philadelphia Landscape Project, 30 years of Action Research" (Sponsored by Cultural Geography Specialty Group)**

Friday, April 7, 3:20 p.m. - 5:00 p.m.

*Room: Room 111, Hynes, Plaza Level (Panel Session)*

### Disability Specialty Group

**3268 The state of Disability Geography: a Plenary lecture by Vera Chouinard (Sponsored by Disability Specialty Group, International Research and Scholarly Exchange Committee)**

Friday, April 7, 10:00 a.m. - 11:40 a.m.

*Room: St. Botolph, Marriott, Second Floor (Paper Session)*

### Economic Geography Specialty Group

**1436 The Roepke Lecture in Economic Geography: "From Exploitation to Expropriation: Geographies of Racialization in Historical Capitalism" - Nancy Fraser - The New School for Social Research (Sponsored by Economic Geography Specialty Group)**

Wednesday, April 5, 12:40 p.m. - 2:20 p.m.

*Room: Ballroom B, Hynes, Third Level (Paper Session)*

### Environmental Perception and Behavioral Geography Specialty Group

**1599 Cultures of Navigation: The Lost Art of Finding Our Way (Sponsored by Environmental Perception and Behavioral Geography Specialty Group)**

Wednesday, April 5, 2:40 p.m. - 4:20 p.m.

*Room: Vermont, Marriott, Fifth Floor (Panel Session)*

### Geographic Information Science and Systems Specialty Group

**4630 Tobler and Transactions in GIS Plenary Presentations (Sponsored by Geographic Information Science and Systems Specialty Group)**

Saturday, April 8, 5:20 p.m. - 7:00 p.m.

*Room: Room 310, Hynes, Third Level (Paper Session)*

### Geographies of Food and Agriculture Specialty Group

**1221 Food hubs building sustainable communities:**

**Activist-scholar roundtable (Sponsored by Geographies of Food and Agriculture Specialty Group, Geographies of Bread and Water in the 21st Century Featured Theme)**

Wednesday, April 5, 10:00 a.m. - 11:40 a.m.

*Room: Room 301, Hynes, Third Level (Panel Session)*

### Geography Education Specialty Group

**1612 GeoMentors: Assisting in the Advancement of Geographic Education (Sponsored by Geography Education Specialty Group, AAG Careers and Professional Development Theme)**

Wednesday, April 5, 4:40 p.m. - 6:20 p.m.

*Room: Room 201, Hynes, Second Level (Panel Session)*

### Graduate Student Affinity Group

**3404 Building a Graduate Community: Insights from Graduate Student Union Members (Sponsored by Graduate Student Affinity Group)**

Friday, April 7, 1:20 p.m. - 3:00 p.m.

*Room: Room 104, Hynes, Plaza Level (Panel Session)*

### Health and Medical Geography Specialty Group

**3530 Melinda Meade Distinguished Lecture (Sponsored by Health and Medical Geography Specialty Group)**

Friday, April 7, 3:20 p.m. - 5:00 p.m.

*Room: Room 310, Hynes, Third Level (Paper Session)*

### Mountain Geography Specialty Group

**5188 Vegetation Dynamics I - Ecotone (Sponsored by Biogeography Specialty Group, Mountain Geography Specialty Group)**

Sunday, April 9, 8:00 a.m. - 9:40 a.m.

*Room: Salon K, Marriott, Fourth Floor (Paper Session)*

### Political Geography Specialty Group

**2438 Political Geography Plenary: Alex de Waal speaks on famine and mass atrocity (Sponsored by Political Geography Specialty Group)**

Thursday, April 6, 1:20 p.m. - 3:00 p.m.

*Room: Independence East, Sheraton, Second Floor (Panel Session)*

## SPECIALTY GROUP HIGHLIGHTED SESSIONS

### **Population Specialty Group**

**3425 Population Geography and the Environment:  
Special Session in Honor of Clark Gray and David  
Lopez-Carr (Sponsored by Population Specialty  
Group)**

Friday, April 7, 1:20 p.m. - 3:00 p.m.

*Room: Room 305, Hynes, Third Level (Panel Session)*

### **Recreation, Tourism, and Sport Specialty Group**

**4612 Sustainable Tourism - Resilient Destinations:  
Future Governance Strategies in Tourism  
Development? (Sponsored by Recreation, Tourism,  
and Sport Specialty Group)**

Saturday, April 8, 5:20 p.m. - 7:00 p.m.

*Room: Room 201, Hynes, Second Level (Panel  
Session)*

### **Remote Sensing Specialty Group**

**4623 John Jensen Distinguished Lecture Series  
(Sponsored by Remote Sensing Specialty Group)**

Saturday, April 8, 5:20 p.m. - 7:00 p.m.

*Room: Room 303, Hynes, Third Level (Paper Session)*

### **Rural Geography Specialty Group**

**3128 New Voices in Rural Geography (Sponsored  
by Rural Geography Specialty Group)**

Friday, April 7, 10:00 a.m. - 11:40 a.m.

*Room: Room 308, Hynes, Third Level (Paper Session)*

### **Transportation Geography Specialty Group**

**3204 Fleming Lecture (Sponsored by  
Transportation Geography Specialty Group)**

Friday, April 7, 10:00 a.m. - 11:40 a.m.

*Room: Room 104, Hynes, Plaza Level (Paper Session)*

### **Urban Geography Specialty Group**

**2463 Urban Geography Plenary: Resilience and  
the Just City (Sponsored by Urban Geography  
Specialty Group)**

Thursday, April 6, 1:20 p.m. - 3:00 p.m.

*Room: Commonwealth, Sheraton, Third Floor (Panel  
Session)*



**Marxist Thought and the City**

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## SESSION SPONSORS

### **CHILDREN'S GEOGRAPHIES JOURNAL**

#### **Children's Geographies Journal Lecture (3413)**

Friday, April 7, 1:20 p.m. - 3:00 p.m.

Room: Room 202, Hynes, Second Level

### **ELSEVIER**

#### **Annual Geoforum Lecture: After the Land Grab: Infrastructural Violence in Indonesia's Oil Palm Plantation Zone (2426)**

Thursday, April 6, 1:20 p.m. - 3:00 p.m.

Room: Room 306, Hynes, Third Level

### **ESRI**

#### **The Web GIS Evolution: Implications for Curricula (4414)**

Saturday, April 8, 1:20 p.m. - 3:00 p.m.

Room: 203, Hynes, Second Level

#### **Symposium on Human Dynamics in Smart and Connected Communities: Methods and Practices for Estimating Gridded Global Population (3275)**

Friday, April 7, 10:00 a.m. - 11:40 a.m.

Room: Regis, Marriott, Third Floor

#### **Symposium on Human Dynamics in Smart and Connected Communities: Panel Session on Future Prospects of Human Dynamics in Smart and Connected Communities (3675)**

Friday, April 7, 5:20 p.m. - 7:00 p.m.

Room: Suffolk, Marriott, Third Floor

#### **A New Map of Global Ecological Marine Units (EMUs) - An Environmental Stratification Approach (2411)**

Thursday, April 6, 1:20 p.m. - 3:00 p.m.

Room: 200, Hynes, Second Level

#### **WS #1-3 Exploring Web GIS**

Wednesday, April 5, 10:00 a.m. - 11:40 a.m.

Room: Back Bay B, Sheraton

#### **World Resources Institute and the University of Maryland Global Land Analysis and Discovery (GLAD) team**

#### **Mapping and Monitoring Land Cover and Land Use Change (LCLUC) in a Changing Environment (2489, 2589)**

Thursday, April 6, 1:20 p.m. - 5:00 p.m.

Room: Vineyard, Marriott, Fourth Floor

#### **Mapping and Monitoring Land Cover and Land Use Change (LCLUC) in a Changing Environment (2489, 2589)**

Thursday, April 6, 1:20 p.m. - 5:00 p.m.

Room: Vineyard, Marriott, Fourth Floor

### **SAGE PUBLISHING**

#### **Environment & Planning C: Politics & Space: A new forum for spatial and political thought in challenging times (2730)**

Thursday, April 6, 7:10 p.m. - 8:10 p.m.

Room: Room 310, Hynes, Third Level

### **ROUTLEDGE**

#### **Urban Geography Plenary: Resilience and the Just City (2463)**

Thursday, April 6, 1:20 p.m. - 3:00 p.m.

Room: Commonwealth, Sheraton, Third Floor

#### **Regional Studies - Annual Lecture - Bjorn T. Asheim (3539)**

Friday, April 7, 3:20 p.m. - 5:00 p.m.

Room: Independence West, Sheraton, Second Floor

#### **Territory, Politics, Governance - Annual Lecture - Maarten Hajer (2544)**

Thursday, April 6, 3:20 p.m. - 5:00 p.m.

Room: Constitution A, Sheraton, Second Floor

#### **Area Development and Policy - Gordon L. Clark (2211)**

Thursday, April 6, 10:00 a.m. - 11:40 a.m.

Room: Room 200, Hynes, Second Level

#### **Physical Geography Poster Session I (3420,3520)**

Friday, April 7, 1:20 p.m. - 5:00 p.m.

Room: Hall C, Hynes, Second Floor

#### **The Roepke Lecture in Economic Geography: "From Exploitation to Expropriation: Geographies of Racialization in Historical Capitalism" - Nancy Fraser - The New School for Social Research (1436)**

Wednesday, April 5, 1:20 p.m. - 3:00 p.m.

Room: Ballroom B, Hynes, Third Level

#### **Writing Successfully for the Journal of Geography in Higher Education (JGHE) - (Workshop 2\_8)**

Thursday, April 6, 3:20 p.m. - 5:00 p.m.

Room: Beacon A, Sheraton, Third Floor

#### **'CITY Perspectives' (1): What Theories Do We Need for a Revitalized Urban Praxis? (2298)**

Thursday, April 6, 10:00 a.m. - 11:40 a.m.

Room: New Hampshire, Marriott, Fifth Floor

#### **CITY Panel II: Capitalisation and Materiality: post-colonial thought and urban-rural revolts (2498)**

Thursday, April 6, 1:20 p.m. - 3:00 p.m.

Room: New Hampshire, Marriott, Fifth Floor

#### **The Future of the Journal of Cultural Geography, with featured panelist Alyson Greiner (2504)**

Thursday, April 6, 3:20 p.m. - 5:00 p.m.

Room: Room 104, Hynes, Plaza Level

### **WILEY**

#### **AAG International Reception: Celebrating the International Encyclopedia of Geography**

Friday, April 7, 7:00 p.m. - 9:00 p.m.

Room: Ballroom B, Hynes, Third Level

#### **The 2017 Antipode AAG Lecture (3624)**

Friday, April 7, 5:20 p.m. - 7:00 p.m.

Room: Room 304, Hynes, Third Level

#### **The 2017 Geographical Review AAG Lecture by Andrea Wulf (3524)**

Friday, April 7, 3:20 p.m. - 5:00 p.m.

Room: Room 304, Hynes, Third Level

#### **2017 IJURR Lecture: Rinaldo Walcott on Black Movements: Lampedusa, Black Lives Matter and Reorienting Freedom (1611)**

Wednesday, April 5, 5:20 p.m. - 7:00 p.m.

Room: Room 200, Hynes, Second Level

### **UNITED STATES GEOLOGICAL SURVEY**

#### **Geography and Remote Sensing Innovation: The Perspective of a Pecora Award Winner (3619)**

Friday, April 7, 5:20 p.m. - 7:00 p.m.

Room: 210, Hynes, Second Level

#### **A New Map of Global Ecological Marine Units (EMUs) - An Environmental Stratification Approach (2411)**

Thursday, April 6, 1:20 p.m. - 3:00 p.m.

Room: 200, Hynes, Second Level

## AAG WORLD GEOGRAPHY BOWL

**Saturday, April 8 at 7:00PM , Rooms 101-105, Hynes, Plaza Level**

Student teams from the AAG's regional divisions will compete in a round robin tournament starting at 7:00 p.m. in rooms 101-105 of the Hynes Convention Center. The Championship Round will begin at approximately 10:00 p.m.

The World Geography Bowl Committee would like to thank the AAG for sponsoring the 2017 national competition through its contributions to the student travel fund, which assists regional divisions in sending student team members to compete at the AAG Annual Meeting. The Committee would also like to thank the following organizations for their generous donations of prizes and awards:



PENGUIN RANDOM HOUSE



### Organizers:

Executive Director: Jamison Conley, West Virginia University  
Administrative Director: Kelsey Taylor, American Association of Geographers  
Master Scorekeeper: Lee Ann Nolan, Pennsylvania State University  
Final Round Judge: Dawn Drake, Missouri Western State University

### Round Robin Volunteers

Paul McDaniel, Kennesaw State University  
Wesley Reisser, US Department of State & George Washington University  
Casey Allen, University of Colorado, Denver  
Rob Edsall, Idaho State University  
Dawn Drake, Missouri Western State University  
Richard Deal, Edinboro University of Pennsylvania

### Question Writers:

Richard Deal, Edinboro University of Pennsylvania  
Wesley Reisser, US Department of State & George Washington University  
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Dawn Drake, Missouri Western State University  
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*If you are interested in volunteering, please contact  
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## Geographies of Justice and Social Transformation

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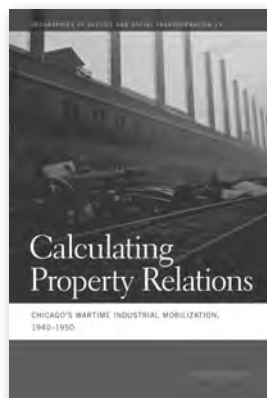
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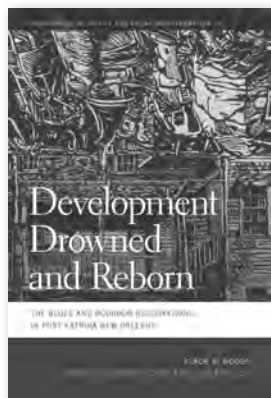
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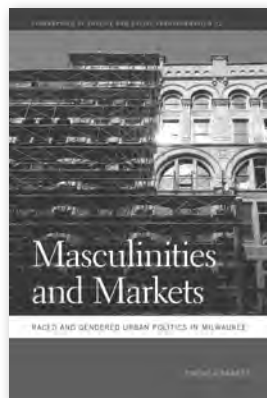
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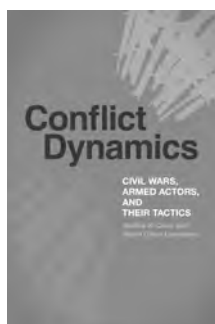


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*Evictions, Citizenship, and Inequality in Contemporary Delhi*  
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## AAG JOBS & CAREERS CENTER

### AAG JOBS & CAREERS CENTER

The Jobs & Careers Center will be located in Rooms 203, 204 & 205 of the Hynes Convention Center, Second Level. It provides a central location for job seekers, students, and professionals to interact with one another and to learn more about careers and professional development for geographers. No additional cost is required.

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#### Information Booth

The information booth will provide you with a welcome and introduction to the Jobs & Careers Center. Here you can browse a range of materials including brochures, tip sheets, and books related to careers and professional development. Our staff can also answer general questions about the various events and activities happening in the Jobs & Careers Center throughout the conference. The information booth will operate from 8:00 am to 5:30 pm, April 5-8.

#### Career Mentoring

Whether you're looking for your first job, considering graduate school, or changing careers, the advice of a mentor can help prepare you for success in today's competitive job market. The AAG has assembled a team of experienced geography professionals, faculty members, and advanced students to provide one-on-one and small-group consultation about careers in a variety of industries and employment sectors. Topics for discussion might include creating resumes and cover letters that will grab an employer's attention, finding jobs where you can put your geography skills and training to work, choosing a graduate program, developing your personal and professional networks, long-term career planning, and more. Career mentoring sessions will take place April 5-8, each morning from 10:00 to 11:40 am.

#### Job & Student Opportunity Postings

Each year, the Jobs & Careers Center features job postings and student opportunities in all fields of geography. Attendees can browse the postings during the career mentoring sessions and or at any time during the conference. Employers are also welcome to post printed ads for open positions within their organizations.

#### Diversity Ambassadors

A diverse group of graduate students, faculty, and professional geographers serve as AAG Diversity Ambassadors. AAG Diversity Ambassadors are organizing a panel session at the 2017 Annual Meeting entitled "Embracing Diversity: An Open Discussion with the AAG's Diversity Ambassadors" (session 1514). This panel session is a continuation of similar panels organized in recent years, which intends to both build upon and enhance the information provided in alternative conference sessions focused on careers and professional development.

#### AAG Emerging Workforce Scholars

This year, The AAG has launched a unique Emerging Workforce Scholars program for Bunker Hill Community College, Boston Latin Academy and Charlestown High students to engage local youth and advance diversity in the geosciences. The Boston Private Industry Council (PIC) and Massachusetts Workforce Professional Association (MWPA) have been working on this innovative project as AAG's implementation partners. Please extend a warm welcome to the Emerging Scholars as they explore careers in geography and the geosciences!

#### GISCI Certification

Did you know you can earn GISP credits by participating in the AAG Annual Meeting? Attendance provides several ways to earn necessary points for the "Contributions to the Profession" and "Education" components of becoming a GISP. A workshop entitled "GISCI – An Exploration of Professionalism Early in a Career or Profession" will take place on Thursday, April 6, from 1:20 – 3:00 pm in the Jobs & Careers Center. Prospective GISPs and current GISPs who have questions about renewing their certification are encouraged to attend. Attendance is first-come, first-served.

# AAG JOBS & CAREERS CENTER

## AAG JOBS & CAREERS CENTER • SCHEDULE OF ACTIVITIES AND SESSIONS

Meeting Rooms 203, 204, 205, Second Level, Hynes Convention Center

### **Wednesday April 5**

- 8:00 a.m. – 9:40 a.m. Panel: *Welcome to AAG*  
 10:00 a.m. – 11:40 a.m. Career Mentoring A  
 Workshop: *Networking: Promoting Yourself by Making Connections that Count*  
 12:40 p.m. – 2:20 p.m. Paper Session: *Careers and Professional Development Paper Session*  
 Workshop: *How to Shine: Polish Your Resume and Cover Letter*  
 2:40 p.m. – 4:20 p.m. Panel: *Embracing Diversity: An Open Discussion with the AAG's Diversity Ambassadors*  
 Workshop: *Stand Out from the Rest: Nailing Your Career Fair Interaction*  
 4:40 p.m. – 6:20 p.m. Panel: *Barriers and Opportunities for Women in the Geography STEM Disciplines*  
 Paper Session: *Applied Geography in Academia: Content, Curricula, Status, Methods, and Future*

### **Thursday, April 6**

- 8:00 a.m. – 9:40 a.m. Workshop: *Say it Well: Make an Impression at the Interview*  
 Panel: *Family, Life, and Work: Strike a Balance*  
 10:00 a.m. – 11:40 a.m. Career Mentoring B  
 Panel: *Preparing Geographers for Government and Nonprofit Careers*  
 1:20 p.m. – 3:00 p.m. Panel: *The Academic Job Market for Geographers: Strategies for Improving Employment Preparation*  
 Employer Interviews  
 Workshop: *GISCI – An Exploration of Professionalism Early in a Career or Profession*  
 3:20 p.m. – 5:00 p.m. Workshop: *GeoMentors: A Program Primer and Strategies for Success*  
 Employer Interviews  
 Workshop: *Walking the Tightrope: Practical Ideas for Building Inclusive Spaces for Women in Geography*

### **Friday, April 7**

- 8:00 a.m. – 9:40 a.m. Panel: *Working Abroad: International Job Opportunities for Geographers*  
 Panel: *The Role of Undergraduate Education in the Professional Development of Geographers*  
 9:00 a.m. – 12:00 p.m. Workshop: *Get the Knowledge You Don't Get in College: A Professional Skills Development Workshop for Entering and Excelling in Sustainable Infrastructure, Environmental and Growth Careers*  
 10:00 a.m. – 11:40 a.m. Career Mentoring C  
 Panel: *Preparing Geographers for Business and Private Sector Careers*  
 1:20 p.m. – 3:00 p.m. Workshop: *Preparing Geography Students for the 21st Century Workforce*  
 Panel: *Building Tomorrow's Workforce: Leading Employers Discuss Career Pathways to Jobs in Infrastructure, Hospitality, Tech, and Sustainability*  
 Panel: *Social Media and the Academic Life: Strategies in Student Recruitment, Teaching, and Professionalism*  
 3:20 p.m. – 5:00 p.m. Paper Session: *Professional Development in Geography Education: Geospatial Technologies, Spatial Thinking, and Geographic Inquiry*  
 Keynote by Hon. Sec. Ronald L. Walker, Massachusetts Secretary of Labor: *Massachusetts's Workforce Investment Programs and AAG Emerging Workforce Scholars Recognition Ceremony*  
 Panel: *Strategies for Thriving as a Stand-Alone Geographer*  
 5:20 p.m. – 7:00 p.m. Panel: *Teaching and Advising about Careers in Geography*  
 Panel: *Publishing Books with Top University Presses and Commercial Publishers*

### **Saturday, April 8**

- 10:00 a.m. – 11:40 a.m. Career Mentoring D  
 1:20 p.m. – 3:00 p.m. Panel: *The Web GIS Evolution: Implications for Curricula*  
 3:20 p.m. – 5:00 p.m. Panel: *Behind the Funding: Former NSF Program Officers Discuss Successful Proposal Submission*

***The Jobs & Careers information booth will operate from  
8:00 am to 5:30 pm daily, April 5–8.***

## AAG JOBS & CAREERS CENTER

### CAREERS AND PROFESSIONAL DEVELOPMENT SESSIONS

There are many special sessions at the AAG Annual Meeting on careers in geography, professional development, and employment opportunities. They are listed below with their session numbers, times and locations.

#### **WEDNESDAY, APRIL 5**

##### **1114: Welcome to AAG**

8:00 – 9:40 am in Room 203, Hynes, Second Level

*Sponsored by Graduate Student Affinity Group, AAG Careers and Professional Development Theme, American Association of Geographers*

##### **1126: Do Your Work: On Solidarity and Scholarship I**

8:00 – 9:40 am in Room 306, Hynes, Third Level

*Sponsored by AAG Careers and Professional Development Theme*

##### **1214: Career Mentoring A**

10:00 – 11:40 am in Room 203, Hynes, Second Level

*Sponsored by AAG Careers and Professional Development Theme*

##### **1226: Do Your Work: On Solidarity and Scholarship II**

10:00 – 11:40 am in Room 306, Hynes, Third Level

*Sponsored by AAG Careers and Professional Development Theme*

##### **1283: Locational Intelligence: The Future of GIS Technology in Business**

10:00 – 11:40 am in Exeter, Marriott, Third Floor

*Sponsored by Business Geography Specialty Group, AAG Careers and Professional Development Theme*

##### **1284: Publication and Peer Review in Physical Geography**

10:00 – 11:40 am in Fairfield, Marriott, Third Floor

*Sponsored by Geomorphology Specialty Group, Biogeography Specialty Group, Climate Specialty Group, AAG Careers and Professional Development Theme*

##### **WS #1-2: Networking: Promoting Yourself by Making Connections that Count**

10:00 – 11:40 am in Room 204, Hynes, Second Level

*Sponsored by AAG Careers and Professional Development Theme*

##### **1404: Ethical Engagement in Geographical Fieldwork**

12:40 – 2:20 pm in Room 104, Hynes, Plaza Level

*Sponsored by Development Geographies Specialty Group, AAG Careers and Professional Development Theme*

##### **1414: Careers and Professional Development Paper Session**

12:40 – 2:20 pm in Room 203, Hynes, Second Level

*Sponsored by AAG Careers and Professional Development Theme*

##### **1449: GIS Worker Co-ops: Prospects and Experiments**

12:40 – 2:20 pm in Beacon E, Sheraton, Third Floor

*Sponsored by AAG Careers and Professional Development Theme*

##### **WS #1-5: How to Shine: Polish Your Resume and Cover Letter**

12:40 – 2:20 pm in Room 204, Hynes, Second Level

*Sponsored by AAG Careers and Professional Development Theme*

##### **1514: Embracing Diversity: An Open Discussion with the AAG's Diversity Ambassadors**

2:40 – 4:20 pm in Room 203, Hynes, Second Level

*Sponsored by AAG Careers and Professional Development Theme*

##### **1539: Making Geographic Scholarship Count: Strategies and Alternative Measures for Engaged Scholarship, Practice, and Activism in Geography**

2:40 – 4:20 pm in Independence West, Sheraton, Second Floor

*Sponsored by AAG Careers and Professional Development Theme*

##### **WS #1-7: Stand Out from the Rest: Nailing Your Career Fair Interaction**

2:40 – 4:20 pm in Room 204, Hynes, Second Level

*Sponsored by AAG Careers and Professional Development Theme*

##### **1610: Becoming a Biogeographer: Advice from a Panel of Experts**

4:40 – 6:20 pm in Room 111, Hynes, Plaza Level

*Sponsored by Biogeography Specialty Group, AAG Careers and Professional Development Theme*

##### **1612: GeoMentors: Assisting in the Advancement of Geographic Education**

4:40 – 6:20 pm in Room 201, Hynes, Second Level

*Sponsored by Geography Education Specialty Group, AAG Careers and Professional Development Theme*

##### **1614: Barriers and Opportunities for Women in the Geography STEM Subdisciplines**

4:40 – 6:20 pm in Room 203, Hynes, Second Level

*Sponsored by Geographic Perspectives on Women Specialty Group, Geographic Information Science and Systems Specialty Group, Climate Specialty Group, AAG Careers and Professional Development Theme*

##### **1615: Applied Geography in Academia: Content, Curricula, Status, Methods, and Future**

4:40 – 6:20 pm in Room 204, Hynes, Second Level

*Sponsored by Applied Geography Specialty Group, Geography Education Specialty Group, AAG Careers and Professional Development Theme*

##### **1669: Teaching Qualitative Methods in Geography**

4:40 – 6:20 pm in Regis, Marriott, Third Floor

*Sponsored by Qualitative Research Specialty Group, AAG Careers and Professional Development Theme*



## AAG JOBS & CAREERS CENTER

### 1683: Business Geography Keynote

4:40 – 6:20 pm in Exeter, Marriott, Third Floor

*Sponsored by Business Geography Specialty Group, AAG Careers and Professional Development Theme*

### THURSDAY, APRIL 6

#### WS #2-1: Say it Well: Make an Impression at the Interview

8:00 – 9:40 am in Room 203, Hynes, Second Level

*Sponsored by AAG Careers and Professional Development Theme*

#### 2116: Family, Life, and Work: Strike a Balance

8:00 – 9:40 am in Room 205, Hynes, Second Level

*Sponsored by AAG Careers and Professional Development Theme*

#### 2169: Journal Publishing in Geography: Non-commercial Alternatives, and Restoring Control by Academics

8:00 – 9:40 am in Regis, Marriott, Third Floor

*Sponsored by AAG Careers and Professional Development Theme*

#### 2214: Career Mentoring B

10:00 – 11:40 am in Room 203, Hynes, Second Level

*Sponsored by AAG Careers and Professional Development Theme*

#### 2216: Preparing Geographers for Government and Nonprofit Careers

10:00 – 11:40 am in Room 205, Hynes, Second Level

*Sponsored by AAG Careers and Professional Development Theme*

#### 2241: Location Intelligence: Business Geography Research and Applications

10:00 – 11:40 am in Liberty C, Sheraton, Second Floor

*Sponsored by Business Geography Specialty Group, AAG Careers and Professional Development Theme*

#### 2260: Interdisciplinary Opportunities at the National Science Foundation (NSF)

10:00 – 11:40 am in Fairfax B, Sheraton, Third Floor

*Sponsored by AAG Careers and Professional Development Theme*

#### 2402: Enacting an Inclusive Professional Community

1:20 – 3:00 pm in Room 102, Hynes, Plaza Level

*Sponsored by Geographic Perspectives on Women Specialty Group, AAG Careers and Professional Development Theme*

#### 2414: The Academic Job Market for Geographers: Strategies for Improving Employment Preparation

1:20 – 3:00 pm in Room 203, Hynes, Second Level

*Sponsored by AAG Careers and Professional Development Theme*

#### 2415: Employer Interviews

1:20 – 3:00 pm in Room 204, Hynes, Second Level

*Sponsored by AAG Careers and Professional Development Theme*

#### 2460: Proposal-Writing Strategies for the NSF Geography and Spatial Sciences Program – 1

1:20 – 3:00 pm in Fairfax B, Sheraton, Third Floor

*Sponsored by AAG Careers and Professional Development Theme*

#### WS #2-5: GISCI – An Exploration of Professionalism Early in a Career or Profession

1:20 – 3:00 pm in Room 205, Hynes, Second Level

*Sponsored by AAG Careers and Professional Development Theme*

#### WS #2-13: GeoMentors: A Program Primer and Strategies for Success

3:20 – 5:00 pm in Room 203, Hynes, Second Level

*Sponsored by AAG Careers and Professional Development Theme*

#### 2515: Employer Interviews

3:20 – 5:00 pm in Room 204, Hynes, Second Level

*Sponsored by AAG Careers and Professional Development Theme*

#### 2560: Speed-Dating with an NSF Program Officer – 1

3:20 – 5:00 pm in Fairfax B, Sheraton, Third Floor

*Sponsored by AAG Careers and Professional Development Theme*

#### WS #2-7: Walking the Tightrope: Practical Ideas for Building Inclusive Spaces for Women in Geography

3:20 – 5:00 pm in Room 205, Hynes, Second Level

*Sponsored by AAG Careers and Professional Development Theme*

#### WS #2-8: Writing Successfully for the Journal of Geography in Higher Education (JGHE)

3:20 – 5:00 pm in Beacon A, Third Floor, Sheraton

*Sponsored by The Journal of Geography in Higher Education & Taylor Francis Routledge, AAG Careers and Professional Development Theme*

### FRIDAY, APRIL 7

#### 3114: Working Abroad: International Job Opportunities for Geographers

8:00 – 9:40 am in Room 203, Hynes, Second Level

*Sponsored by AAG Careers and Professional Development Theme*

#### 3116: The Role of Undergraduate Education in the Professional Development of Geographers

8:00 – 9:40 am in 205, Hynes, Second Level

*Sponsored by Applied Geography Specialty Group, Geography Education Specialty Group, Community College Affinity Group, AAG Careers and Professional Development Theme*

#### 3125: Decisions and Crossroads in Human Geography Fieldwork

8:00 – 9:40 am in Room 305, Hynes, Third Level

*Sponsored by Study of the American South Specialty Group, AAG Careers and Professional Development Theme*

#### 3140: Preparing for the Tenure Track Job and Achieving Success in Tenure Track Positions

8:00 – 9:40 am in Liberty B, Sheraton, Second Floor

*Sponsored by Africa Specialty Group, AAG Careers and Professional Development Theme*

## AAG JOBS & CAREERS CENTER

### **3160: Pregnancy and Parenting in Academia**

8:00 – 9:40 am in Fairfax B, Sheraton, Third Floor

*Sponsored by Cultural Geography Specialty Group, AAG Careers and Professional Development Theme*

### **3180: The Geography of Entrepreneurship and its Ecosystems I**

8:00 – 9:40 am in Berkeley, Marriott, Third Floor

*Sponsored by Economic Geography Specialty Group, Business Geography Specialty Group, AAG Careers and Professional Development Theme*

### **WS #3-8: Get the Knowledge You Don't Get in College: A Professional Skills Development Workshop for Entering and Excelling in Sustainable Infrastructure, Environmental and Growth Careers**

9:00 am – 12:00 pm in Room 204, Hynes, Second Level

*Sponsored by AAG Careers and Professional Development Theme*

### **3214: Career Mentoring C**

10:00 – 11:40 am in Room 203, Hynes, Second Level

*Sponsored by AAG Careers and Professional Development Theme*

### **3216: Preparing Geographers for Business and Private Sector Careers**

10:00 – 11:40 am in Room 205, Hynes, Second Level

*Sponsored by AAG Careers and Professional Development Theme*

### **3227: Doing Geography I: Teaching with Webmaps in the Lower Division Classroom**

10:00 – 11:40 am in Room 307, Hynes, Third Level

*Sponsored by Community College Affinity Group, Geography Education Specialty Group, AAG Careers and Professional Development Theme*

### **3260: Developing Innovative Broader Impacts for Proposals Submitted to the National Science Foundation**

10:00 – 11:40 am in Fairfax B, Sheraton, Third Floor

*Sponsored by AAG Careers and Professional Development Theme*

### **3280: The Geography of Entrepreneurship and its Ecosystems II**

10:00 – 11:40 am in Berkeley, Marriott, Third Floor

*Sponsored by Economic Geography Specialty Group, Business Geography Specialty Group, AAG Careers and Professional Development Theme*

### **WS #3-5: Preparing Geography Students for the 21<sup>st</sup> Century Workforce**

1:20 – 3:00 pm in Room 204, Hynes, Second Level

*Sponsored by AAG Careers and Professional Development Theme*

### **3414: Building Tomorrow's Workforce: Leading Employers Discuss Career Pathways to Jobs in Infrastructure, Hospitality, Tech, and Sustainability**

1:20 – 3:00 pm in Room 203, Hynes, Second Level

*Sponsored by AAG Careers and Professional Development Theme*

### **3416: Social Media and the Academic Life: Strategies in Student Recruitment, Teaching, and Professionalism**

1:20 – 3:00 pm in Room 205, Hynes, Second Level

*Sponsored by American Association of Geographers, Communication Geography Specialty Group, AAG Careers and Professional Development Theme*

### **3427: Doing Geography II: Teaching with Webmaps in the Lower Division Classroom**

1:20 – 3:00 pm in Room 307, Hynes, Third Level

*Sponsored by Community College Affinity Group, Geography Education Specialty Group, AAG Careers and Professional Development Theme*

### **3460: Proposal-Writing Strategies for the NSF Geography and Spatial Sciences Program – 2**

1:20 – 3:00 pm in Fairfax B, Sheraton, Third Floor

*Sponsored by AAG Careers and Professional Development Theme*

### **3480: The Geography of Entrepreneurship and its Ecosystems III**

1:20 – 3:00 pm in Berkeley, Marriott, Third Floor

*Sponsored by Economic Geography Specialty Group, Business Geography Specialty Group, AAG Careers and Professional Development Theme*

### **3488: Learning and Applying Tools in Geography: Important Concepts in GIS**

1:20 – 3:00 pm in Salon K, Marriott, Fourth Floor

*Sponsored by Geographic Information Science and Systems Specialty Group, Geography Education Specialty Group, AAG Careers and Professional Development Theme*

### **3514: Keynote by Hon. Sec. Ronald L. Walker, Massachusetts Secretary of Labor: Massachusetts's Workforce Investment Programs and AAG Emerging Workforce Scholars Recognition Ceremony**

3:20 – 5:00 pm in Room 203, Hynes, Second Level

*Sponsored by AAG Careers and Professional Development Theme*

### **3515: Professional Development in Geography Education: Geospatial Technologies, Spatial Thinking, and Geographic Inquiry**

3:20 – 5:00 pm in Room 204, Hynes, Second Level

*Sponsored by Geography Education Specialty Group, AAG Careers and Professional Development Theme*

### **3516: Strategies for Thriving as a Stand-Alone Geographer**

3:20 – 5:00 pm in Room 205, Hynes, Second Level

*Sponsored by AAG Careers and Professional Development Theme*

### **3527: Teacher Professionalization in Geography Education**

3:20 – 5:00 pm in Room 307, Hynes, Third Level

*Sponsored by AAG Careers and Professional Development Theme*

## AAG JOBS & CAREERS CENTER

### **3560: Speed-Dating with an NSF Program Officer – 2**

3:20 – 5:00 pm in Fairfax B, Sheraton, Third Floor

*Sponsored by AAG Careers and Professional Development Theme*

### **3580: The Geography of Entrepreneurship and its Ecosystems IV**

3:20 – 5:00 pm in Berkeley, Marriott, Third Floor

*Sponsored by Economic Geography Specialty Group, Business Geography Specialty Group, AAG Careers and Professional Development Theme*

### **3614: Teaching and Advising about Careers in Geography**

5:20 – 7:00 pm in Room 203, Hynes, Second Level

*Sponsored by AAG Careers and Professional Development Theme*

### **3616: Publishing Books with Top University Presses and Commercial Publishers**

5:20 – 7:00 pm in Room 205, Hynes, Second Level

*Sponsored by China Specialty Group, Development Geographies Specialty Group, Asian Geography Specialty Group, Cultural and Political Ecology Specialty Group, Economic Geography Specialty Group, AAG Careers and Professional Development Theme*

### **3680: Panel Discussion: The Geography of Entrepreneurship and Entrepreneurial Ecosystems**

5:20 – 7:00 pm in Berkeley, Marriott, Third Floor

*Sponsored by Economic Geography Specialty Group, Business Geography Specialty Group, AAG Careers and Professional Development Theme*

## **SATURDAY, APRIL 8**

### **4160: Proposal-Writing Strategies for the NSF Geography and Spatial Sciences Program – 3**

8:00 – 9:40 am in Fairfax B, Sheraton, Third Floor

*Sponsored by AAG Careers and Professional Development Theme*

### **4185: Graduate Student Health and Wellbeing: A Frank Discussion I**

8:00 – 9:40 am in Salon H, Marriott, Fourth Floor

*Sponsored by Paleoenvironmental Change Specialty Group, Graduate Student Affinity Group, Health and Medical Geography Specialty Group, AAG Careers and Professional Development Theme*

### **4214: Career Mentoring D**

10:00 – 11:40 am in Room 203, Hynes, Second Level

*Sponsored by AAG Careers and Professional Development Theme*

### **4239: Task Force on Mental Health: Continuing the Conversation on Mental Health in the Academy**

10:00 – 11:40 am in Independence West, Sheraton, Second Floor

*Sponsored by AAG Careers and Professional Development Theme*

### **4260: Speed-Dating with an NSF Program Officer – 3**

10:00 – 11:40 am in Fairfax B, Sheraton, Third Floor

*Sponsored by AAG Careers and Professional Development Theme*

### **4285: Graduate Student Health and Wellbeing: A Frank Discussion II**

10:00 – 11:40 am in Salon H, Marriott, Fourth Floor

*Sponsored by Paleoenvironmental Change Specialty Group, Graduate Student Affinity Group, Health and Medical Geography Specialty Group, AAG Careers and Professional Development Theme*

### **4414: The Web GIS Evolution: Implications for Curricula**

1:20 – 3:00 pm in Room 203, Hynes, Second Level

*Sponsored by Geographic Information Science and Systems Specialty Group, Geography Education Specialty Group, AAG Careers and Professional Development Theme*

### **4484: Best Practices for Teaching in a Web-based Learning Environment**

1:20 – 3:00 pm in Fairfield, Marriott, Third Floor

*Sponsored by Geography Education Specialty Group, Community College Affinity Group, AAG Careers and Professional Development Theme*

### **4485: Graduate Student Health and Wellbeing: A Frank Discussion III**

1:20 – 3:00 pm in Salon H, Marriott, Fourth Floor

*Sponsored by Paleoenvironmental Change Specialty Group, Graduate Student Affinity Group, Health and Medical Geography Specialty Group, AAG Careers and Professional Development Theme*

### **4514: Behind the Funding: Former NSF Program Officers Discuss Successful Proposal Submission**

3:20 – 5:00 pm in Room 203, Hynes, Second Level

*Sponsored by AAG Careers and Professional Development Theme*

## **SUNDAY, APRIL 9**

### **5132: WWW: Women Workers Worldwide – Within and Outside the Shopfloor**

8:00 – 9:40 am in Room 312, Hynes, Third Level

*Sponsored by AAG Careers and Professional Development Theme*

### **5141: Teaching GIS in Africa**

8:00 – 9:40 am in Liberty C, Sheraton, Second Floor

*Sponsored by Africa Specialty Group, Geographic Information Science and Systems Specialty Group, AAG Careers and Professional Development Theme*

### **5586: Learning and Applying Tools in Geography: Interdisciplinary Applications of GIS**

4:00 – 5:50 pm in Salon I, Marriott, Fourth Floor

*Sponsored by Geographic Information Science and Systems Specialty Group, Geography Education Specialty Group, AAG Careers and Professional Development Theme*

## AAG CAREERS IN GEOGRAPHY FAIR

### AAG CAREERS AND JOBS FAIR

The AAG Careers in Geography Fair will feature representatives from a wide range of industries that employ geographers. Employer tables will be located in the Hynes Convention Center, Second Level, in the hallway outside of the Jobs & Careers Center on Friday, April 7, from 9:00 am to 4:00 pm. A room will be reserved for breakout meetings and on-site interviews with qualified job candidates on Thursday, April 6 from 1:00 – 5:00 pm and Friday, April 7 from 4:00 – 5:00 pm.

The AAG would like to thank the following Careers in Geography Fair and Emerging Workforce Scholars program participants and sponsors:

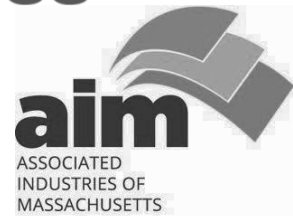
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## SPECIAL EVENTS AND MEETINGS SUMMARY

### TUESDAY, APRIL 4

#### **Cartography and Geographic Information Society Board Meeting - Private Meeting**

Tuesday, April 4, 9:00 a.m. - 5:00 p.m.  
(Berkeley, Sheraton, Third Floor)

### WEDNESDAY, APRIL 5

**AAG Council Town Hall Meeting - Special Event**  
Wednesday, April 5, 12:00 p.m. - 12:40 p.m.  
(Commonwealth, Sheraton, Third Floor)

#### **Journal of Geography in Higher Education Editorial Board Meeting - Private Meeting**

Wednesday, April 5, 3:30 p.m. - 5:30 p.m.  
(Clarendon, Sheraton, Third Floor)

**AAG Physical Geography Symposium Keynote Lecture: Human Environmental Interactions and the Legacy of Karl Butzer in the Physical Geography and Beyond 1 - Featured Session**  
Wednesday, April 5, 4:40 p.m. - 6:20 p.m.  
(Room 302, Hynes, Third Level)

#### **CaGIS Members Reception**

Wednesday, April 5, 6:00 p.m. - 8:00 p.m.  
(Berkeley, Sheraton, Third Floor)

#### **IJURR 40th Anniversary Reception**

Wednesday, April 5, 6:20 p.m. - 8:00 p.m.  
(Meeting Room 200, Hynes, Second Level)

#### **AAG Annual Meeting Opening Session**

Wednesday, April 5, 6:30 p.m. - 8:30 p.m.  
(Ballroom B, Hynes, Third Level)

### THURSDAY, APRIL 6

**GIS & Technology Poster Session - Featured Session**  
Thursday, April 6, 8:00 a.m. - 11:40 a.m.  
(Hall C, Hynes, Second Level)

#### **CLAG Board Meeting**

Thursday, April 6, 10:00 a.m. - 11:40 a.m.  
(Clarendon, Sheraton, Third Floor)

#### **Need for Public Intellectuals in a Trump America: Strategies for Communication, Engagement, and Advocacy - Featured Session**

Thursday, April 6, 10:00 a.m. - 11:40 a.m.  
(Room 312, Hynes, Third Level)

#### **Uncertainty and Context in Geography and GIScience Featured Theme Opening Plenary - Featured Session**

Thursday, April 6, 10:00 a.m. - 11:40 a.m.  
(Independence West, Sheraton, Second Floor)

#### **Department Chairs Luncheon - Special Event**

Thursday, April 6, 11:40 a.m. - 2:00 p.m.  
(Room 210, Hynes, Second Level)

#### **Meeting of the USNC and ICC 2017 LOC**

Thursday, April 6, 11:50 a.m. - 1:10 p.m.  
(Vermont, Marriott, Fifth Floor)

#### **Society and Space Editorial Board Meeting - Private Meeting**

Thursday, April 6, 11:50 a.m. - 1:10 p.m.  
(Suite 300, Hynes, Third Level)

#### **Special Session featuring Rush Holt, CEO of the American Association for the Advancement of Science (AAAS) - Featured Session**

Thursday, April 6, 11:50 a.m. - 1:10 p.m.  
(Room 103, Hynes, Third Level)

#### **Specialty Group Chairs Meeting**

Thursday, April 6, 11:50 a.m. - 1:10 p.m.  
(Room 209, Hynes, Second Level)

#### **Fennia Editorial Board Meeting - Private Meeting**

Thursday, April 6, 12:00 p.m. - 1:00 p.m.  
(Berkeley, Sheraton, Third Floor)



## SPECIAL EVENTS AND MEETINGS SUMMARY

### **NESTVAL Spring Business Meeting - Private Meeting**

Thursday, April 6, 12:00 p.m. - 2:00 p.m.  
(Clarendon, Sheraton, Third Floor)

### **A New Map of Global Ecological Marine Units (EMUs) - An Environmental Stratification**

#### **Approach - Featured Session**

Thursday, April 6, 1:20 p.m. - 3:00 p.m.  
(Room 200, Hynes, Second Level)

### **Human Geography Poster Session I - Featured Session**

Thursday, April 6, 1:20 p.m. - 5:00 p.m.  
(Hall C, Hynes, Second Level)

### **Health and Medical Geography Specialty Group Reception - Private Meeting**

Thursday, April 6, 4:30 p.m. - 6:00 p.m.  
(Meeting Room 310, Hynes, Third Level)

### **Historical Geography Editorial Board Meeting**

Thursday, April 6, 5:00 p.m. - 6:00 p.m.  
(Berkeley, Sheraton, Third Floor)

### **Africa Specialty Group Board Meeting – Private Meeting**

Thursday, April 6, 5:20 p.m. - 7:00p.m.  
(Wellesley, Marriott, Third Floor)

### **Noam Chomsky Interview - A Continuing Conversation with Geographers and Atlas Award Presentation - Plenary Session**

Thursday, April 6, 5:20 p.m. - 7:00 p.m.  
(Ballroom B, Hynes, Third Level)

### **Historical Geography Specialty Group Business Meeting**

Thursday, April 6, 6:00 p.m. - 7:00 p.m.  
(Berkeley, Sheraton, Third Floor)

### **Historical Geography Specialty Group**

Thursday, April 6, 6:00 p.m. - 7:00 p.m.  
(Berkeley, Sheraton, Third Floor)

### **Africa Specialty Group Business Meeting**

Thursday, April 6, 7:10 p.m. – 8:10 p.m.  
(Wellesley, Marriott, Third Floor)

### **Climate Specialty Group Business Meeting**

Thursday, April 6, 7:10 p.m. – 8:10 p.m.  
(Suffolk, Marriott, Third Floor)

### **Cryosphere Specialty Group Business Meeting**

Thursday, April 6, 7:10 p.m. – 8:10 p.m.  
(Harvard, Marriott, Third Floor)

### **Cultural and Political Ecology Specialty Group Business Meeting**

Thursday, April 6, 7:10 p.m. – 8:10 p.m.  
(Provincetown, Marriott, Fourth Floor)

### **Ethnic Geography Specialty Group Business Meeting**

Thursday, April 6, 7:10 p.m. – 8:10 p.m.  
(Tremont, Marriott, First Floor)

### **Geographies of Wine, Beer, and Spirits Specialty Group Business Meeting**

Thursday, April 6, 7:10 p.m. – 8:10 p.m.  
(Room 309, Hynes, Third Level)

### **Geomorphology Specialty Group Business Meeting**

Thursday, April 6, 7:10 p.m. – 8:10 p.m.  
(Clarendon, Marriott, Third Floor)

### **Graduate Student Affinity Group Business Meeting**

Thursday, April 6, 7:10 p.m. – 8:10 p.m.  
(Vineyard, Marriott, Fourth Floor)

### **Hazards, Risks, and Disasters Specialty Group Business Meeting**

Thursday, April 6, 7:10 p.m. – 8:10 p.m.  
(Regis, Marriott, Third Floor)

### **Indigenous Peoples Specialty Group Business Meeting**

Thursday, April 6, 7:10 p.m. – 8:10 p.m.  
(Fairfax B, Sheraton, Third Floor)

### **Latin America Specialty Group Business Meeting**

Thursday, April 6, 7:10 p.m. – 8:10 p.m.  
(St. Botolph, Marriott, Second Floor)

## SPECIAL EVENTS AND MEETINGS SUMMARY

### **Recreation, Tourism, and Sport Specialty Group Business Meeting**

Thursday, April 6, 7:10 p.m. – 8:10 p.m.  
(Fairfield, Marriott, Third Floor)

### **Texas State Geography Reception**

Thursday, April 6, 8:00 p.m. - 10:00 p.m.  
(Suite 300, Hynes, Third Level)

### **University at Buffalo (SUNY) Gathering for Friends and Alumni**

Thursday, April 6, 8:00 p.m. - 11:00 p.m.  
(Commonwealth, Sheraton, Third Floor)

### **Ethics, Justice, and Human Rights Specialty Group Business Meeting**

Thursday, April 6, 8:10 p.m. – 9:10 p.m.  
(Tremont, Marriott, First Floor)

### **Undergraduate Student Affinity Group Business Meeting**

Thursday, April 6, 8:10 p.m. – 9:10 p.m.  
(Vineyard, Marriott, Fourth Floor)

## **FRIDAY, APRIL 7**

### **Journal Editors' Meeting**

Friday, April 7, 8:00 a.m. - 9:40 a.m.  
(Berkeley, Sheraton, Third Floor)

### **Human Geography Poster Session II - Featured Session**

Friday, April 7, 8:00 a.m. - 11:40 a.m.  
(Hall C, Hynes, Second Level)

### **Honorary Geographer James Hansen - Featured Session**

Friday, April 7, 10:00 a.m. - 11:40 a.m.  
(Room 210, Hynes, Second Level)

### **CPGIS Business Meeting**

Friday, April 7, 11:45 a.m. - 12:45 p.m.  
(Meeting Room 101, Hynes, First Level)

### **Animal Geography Specialty Group Business Meeting**

Friday, April 7, 11:50 a.m. – 1:10 p.m.  
(Gardner A, Sheraton, Third Floor)

### **Biogeography Specialty Group Business Meeting**

Friday, April 7, 11:50 a.m. – 1:10 p.m.  
(Fairfield, Marriott, Third Floor)

### **Business Geography Specialty Group Business Meeting**

Friday, April 7, 11:50 a.m. – 1:10 p.m.  
(Arlington, Marriott, Third Floor)

### **Cartography Specialty Group Business Meeting**

Friday, April 7, 11:50 a.m. – 1:10 p.m.  
(Room 108, Hynes, Plaza Level)

### **China Specialty Group Business Meeting**

Friday, April 7, 11:50 a.m. – 1:10 p.m.  
(Jefferson, Sheraton, Third Floor)

### **Community College Affinity Group Business Meeting**

Friday, April 7, 11:50 a.m. – 1:10 p.m.  
(Room 307, Hynes, Third Level)

### **Cultural Geography Specialty Group Business Meeting**

Friday, April 7, 11:50 a.m. – 1:10 p.m.  
(Room 104, Hynes, Plaza Level)

### **Disability Specialty Group Business Meeting**

Friday, April 7, 11:50 a.m. – 1:10 p.m.  
(St. Botolph, Marriott, Second Floor)

### **Economic Geography Specialty Group Business Meeting**

Friday, April 7, 11:50 a.m. – 1:10 p.m.  
(Back Bay Ballroom A, Sheraton, Second Floor)

### **Eurasia Specialty Group Business Meeting**

Friday, April 7, 11:50 a.m. – 1:10 p.m.  
(Room 111, Hynes, Plaza Level)

## SPECIAL EVENTS AND MEETINGS SUMMARY

### **European Geography Specialty Group Business Meeting**

Friday, April 7, 11:50 a.m. – 1:10 p.m.  
(Beacon E, Sheraton, Third Floor)

### **Geographic Information Science and Systems Specialty Group Business Meeting**

Friday, April 7, 11:50 a.m. – 1:10 p.m.  
(Room 201, Hynes, Second Level)

### **Geographic Perspective on Women Specialty Group Business Meeting**

Friday, April 7, 11:50 a.m. – 1:10 p.m.  
(Commonwealth, Sheraton, Third Floor)

### **Geographical Review Editorial Board**

Friday, April 7, 11:50 a.m. – 1:10 p.m.  
(Clarendon, Sheraton, Third Floor)

### **Geographies of Food and Agriculture Specialty Group Business Meeting**

Friday, April 7, 11:50 a.m. – 1:10 p.m.  
(Salon K, Marriott, Fourth Floor)

### **Health and Medical Geography Specialty Group Business Meeting**

Friday, April 7, 11:50 a.m. – 1:10 p.m.  
(Simmons, Marriott, Third Floor)

### **History of Geography Specialty Group Business Meeting**

Friday, April 7, 11:50 a.m. – 1:10 p.m.  
(Independence West, Sheraton, Second Floor)

### **Military Geography Specialty Group Business Meeting**

Friday, April 7, 11:50 a.m. – 1:10 p.m.  
(Room 313, Hynes, Third Level)

### **Mountain Geography Specialty Group Business Meeting**

Friday, April 7, 11:50 a.m. – 1:10 p.m.  
(Constitution B, Sheraton, Second Floor)

### **Polar Geography Specialty Group Business Meeting**

Friday, April 7, 11:50 a.m. – 1:10 p.m.  
(Room 309, Hynes, Third Level)

### **Political Geography Specialty Group Business Meeting**

Friday, April 7, 11:50 a.m. – 1:10 p.m.  
(Clarendon, Marriott, Third Floor)

### **Population Geography Specialty Group Business Meeting**

Friday, April 7, 11:50 a.m. – 1:10 p.m.  
(Room 305, Hynes, Third Level)

### **Qualitative Research Specialty Group Business Meeting**

Friday, April 7, 11:50 a.m. – 1:10 p.m.  
(Exeter, Marriott, Third Floor)

### **Regional Development and Planning Specialty Group Business Meeting**

Friday, April 7, 11:50 a.m. – 1:10 p.m.  
(Regis, Marriott, Third Floor)

### **Rural Geography Specialty Group Business Meeting**

Friday, April 7, 11:50 a.m. – 1:10 p.m.  
(Room 308, Hynes, Third Level)

### **Sexuality and Space Specialty Group Business Meeting**

Friday, April 7, 11:50 a.m. – 1:10 p.m.  
(Dartmouth, Marriott, Third Floor)

### **Transportation Geography Specialty Group Business Meeting**

Friday, April 7, 11:50 a.m. – 1:10 p.m.  
(Room 202, Hynes, Second Level)

### **Urban Geography Specialty Group Business Meeting**

Friday, April 7, 11:50 a.m. – 1:10 p.m.  
(Room 101, Hynes, Plaza Level)

## SPECIAL EVENTS AND MEETINGS SUMMARY

### **Water Resources Specialty Group Business Meeting**

Friday, April 7, 11:50 a.m. – 1:10 p.m.  
(Boylston, Marriott, First Floor)

### **Gamma Theta Upsilon Business Meeting**

Friday, April 7, 12:00 p.m. - 1:00 p.m.  
(Suite 300, Hynes, Third Level)

### **Sarah Bednarz' Past President's Address: "Locating Geography Education" and AAG Presidential Achievement Award Presentation- Plenary Session**

Friday, April 7, 12:00 p.m. - 1:10 p.m.  
(Room 312, Hynes, Third Level)

### **Physical Geography Poster Session I - Featured Session**

Friday, April 7, 1:20 p.m. - 5:00 p.m.  
(Hall C, Hynes, Second Level)

### **How Geography Can Inform Social Change And Political Movements: Example Of How Geospatial Analysis Can Describe Standing Rock Human Rights Violations For Indigenous People And Water Security Threat To The Missouri River Basin - Featured Session**

Friday, April 7, 3:20 p.m. - 5:20 p.m.  
(Room 312, Hynes, Third Level)

### **The Geographical Review Lecture Reception**

Friday, April 7, 5:00 p.m. - 7:00 p.m.  
(Suite 300, Hynes, Third Floor)

### **International Reception: Celebrating the International Encyclopedia of Geography - Special Event**

Friday, April 7, 7:00 p.m. - 9:00 p.m.  
(Ballroom B, Hynes, Third Level)

### **KAGES (Korea-America Association for Geospatial and Environmental Sciences) General Meeting**

Friday, April 7, 7:00 p.m. - 8:10 p.m.  
(Meeting Room 101, Hynes, First Level)

### **2017 Antipode Lecture Reception**

Friday, April 7, 7:00 p.m. - 8:30 p.m.  
(Meeting Room 304, Hynes, Third Level)

### **Bible Geography Specialty Group Business Meeting**

Friday, April 7, 7:10 p.m. – 8:10 p.m.  
(Room 109, Hynes, Plaza Level)

### **Coastal and Marine Specialty Group Business Meeting**

Friday, April 7, 7:10 p.m. – 8:10 p.m.  
(Room 201, Hynes, Second Level)

### **Energy and Environment Specialty Group Business Meeting**

Friday, April 7, 7:10 p.m. – 8:10 p.m.  
(Room 311, Hynes, Third Level)

### **Legal Geography Specialty Group Business Meeting**

Friday, April 7, 7:10 p.m. – 8:10 p.m.  
(Tremont, Marriott, First Floor)

### **Paleoenvironmental Change Specialty Group Business Meeting**

Friday, April 7, 7:10 p.m. – 8:10 p.m.  
(St. Botolph, Marriott, Second Floor)

### **Remote Sensing Specialty Group Business Meeting**

Friday, April 7, 7:10 p.m. – 8:10 p.m.  
(Regis, Marriott, Third Floor)

### **SAM Specialty Group and Geographical Analysis Plenary Reception**

Friday, April 7, 7:10 p.m. - 8:10 p.m.  
(Meeting Room 108, Hynes, First Level)

### **Socialist and Critical Geography Specialty Group Business Meeting**

Friday, April 7, 7:10 p.m. – 8:10 p.m.  
(Dartmouth, Marriott, Third Floor)

### **Spatial Analysis and Modeling Specialty Group Business Meeting**

Friday, April 7, 7:10 p.m. – 8:10 p.m.  
(Provincetown, Marriott, Fourth Floor)

### **Middle East Specialty Group Business Meeting**

Friday, April 7, 8:10 p.m. – 9:10 p.m.  
(Tremont, Marriott, First Floor)

## SPECIAL EVENTS AND MEETINGS SUMMARY

### **Private/Public Affinity Group Business Meeting**

Friday, April 7, 8:10 p.m. – 9:10 p.m.  
(*St. Botolph, Marriott, Second Floor*)

### **Retired Geographers Affinity Group Business Meeting**

Friday, April 7, 8:10 p.m. – 9:10 p.m.  
(*Regis, Marriott, Third Floor*)

### **Stand-Alone Geographers Affinity Group Business Meeting**

Friday, April 7, 8:10 p.m. – 9:10 p.m.  
(*Dartmouth, Marriott, Third Floor*)

### **Study of the American South Specialty Group Business Meeting**

Friday, April 7, 8:10 p.m. – 9:10 p.m.  
(*Provincetown, Marriott, Fourth Floor*)

## **SATURDAY, APRIL 8**

### **Physical Geography Poster Session II - Featured Session**

Saturday, April 8, 8:00 a.m. - 11:40 a.m.  
(*Hall C, Hynes, Second Level*)

### **Applied Geography Specialty Group Business Meeting**

Saturday, April 8, 11:50 a.m. – 1:10 p.m.  
(*Room 104, Hynes, Plaza Level*)

### **Asian Geography Specialty Group Business Meeting**

Saturday, April 8, 11:50 a.m. – 1:10 p.m.  
(*Room 108, Hynes, Plaza Level*)

### **Black Geographies Specialty Group Business Meeting**

Saturday, April 8, 11:50 a.m. – 1:10 p.m.  
(*Room 204, Hynes, Second Level*)

### **Canadian Studies Specialty Group Business Meeting**

Saturday, April 8, 11:50 a.m. – 1:10 p.m.  
(*Room 201, Hynes, Second Level*)

### **Caregiving Affinity Group Business Meeting**

Saturday, April 8, 11:50 a.m. – 1:10 p.m.  
(*Room 202, Hynes, Second Level*)

### **Cyberinfrastructure Specialty Group Business Meeting**

Saturday, April 8, 11:50 a.m. – 1:10 p.m.  
(*Room 306, Hynes, Third Level*)

### **Environmental Perception and Behavioral Geography Specialty Group Business Meeting**

Saturday, April 8, 11:50 a.m. – 1:10 p.m.  
(*Back Bay Ballroom B, Sheraton, Second Floor*)

### **Geography of Religions and Belief Systems Specialty Group Business Meeting**

Saturday, April 8, 11:50 a.m. – 1:10 p.m.  
(*Room 111, Hynes, Plaza Level*)

### **Geography Education Specialty Group Business Meeting**

Saturday, April 8, 11:50 a.m. – 1:10 p.m.  
(*Beacon F, Sheraton, Third Floor*)

### **Media and Communication Geography Specialty Group Business Meeting**

Saturday, April 8, 11:50 a.m. – 1:10 p.m.  
(*Room 101, Hynes, Plaza Level*)

### **Regional Division Chairs Luncheon**

Saturday, April 8, 11:50 a.m. - 1:10 p.m.  
(*Room 209, Hynes, Second Level*)

### **Uncertainty and Context in Geography and GIScience Featured Theme Closing Plenary - Featured Session**

Saturday, April 8, 11:50 a.m. - 1:10 p.m.  
(*Independence West, Sheraton, Second Floor*)

### **Linking Geographical Science to Policy: Opportunities at the U.S. National Academies of Science - Featured Session**

Saturday, April 8, 1:20 p.m. - 3:00 p.m.  
(*Room 102, Hynes, Plaza Level*)

## SPECIAL EVENTS AND MEETINGS SUMMARY

**David Harvey Feature Lecture: “Marx, Capital and the Madness of Economic Reason” - Featured Session**

Saturday, April 8, 3:20 p.m. - 5:00 p.m.  
(Ballroom B, Hynes, Third Level)

**The 2016 U.S. Elections: Implications for Geography and Beyond - Featured Session**

Saturday, April 8, 5:20 p.m. - 7:00 p.m.  
(Room 312, Hynes, Third Level)

**Transformative Research in Geography Education - Private Meeting**

Saturday, April 8, 5:30 p.m. - 7:30 p.m.  
(Commonwealth, Sheraton, Third Floor)

**Geographic Information Science and Systems Specialty Group Reception**

Saturday, April 8, 7:00 p.m. - 8:30 p.m.  
(Meeting Room 310, Hynes, Third Level)

**World Geography Bowl**

Saturday, April 8, 7:00 p.m. - 11:00 p.m.  
(Rooms 101-105, Hynes, Plaza Level)

**Development Geographies Specialty Group Business Meeting**

Saturday, April 8, 7:10 p.m. – 8:10 p.m.  
(Simmons, Marriott, Third Floor)

**Human Dimensions of Global Change Specialty Group Business Meeting**

Saturday, April 8, 7:10 p.m. – 8:10 p.m.  
(MIT, Marriott, Third Floor)

**Landscape Specialty Group Business Meeting**

Saturday, April 8, 8:10 p.m. – 9:10 p.m.  
(Regis, Marriott, Third Floor)

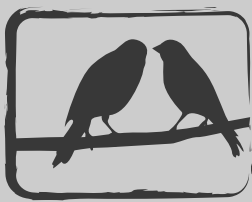
**SUNDAY, APRIL 9**

**2017 AAG Awards Luncheon**

Sunday, April 9, 11:50 a.m. - 2:00 p.m.  
(Constitution Ballroom, Sheraton, Second Floor)

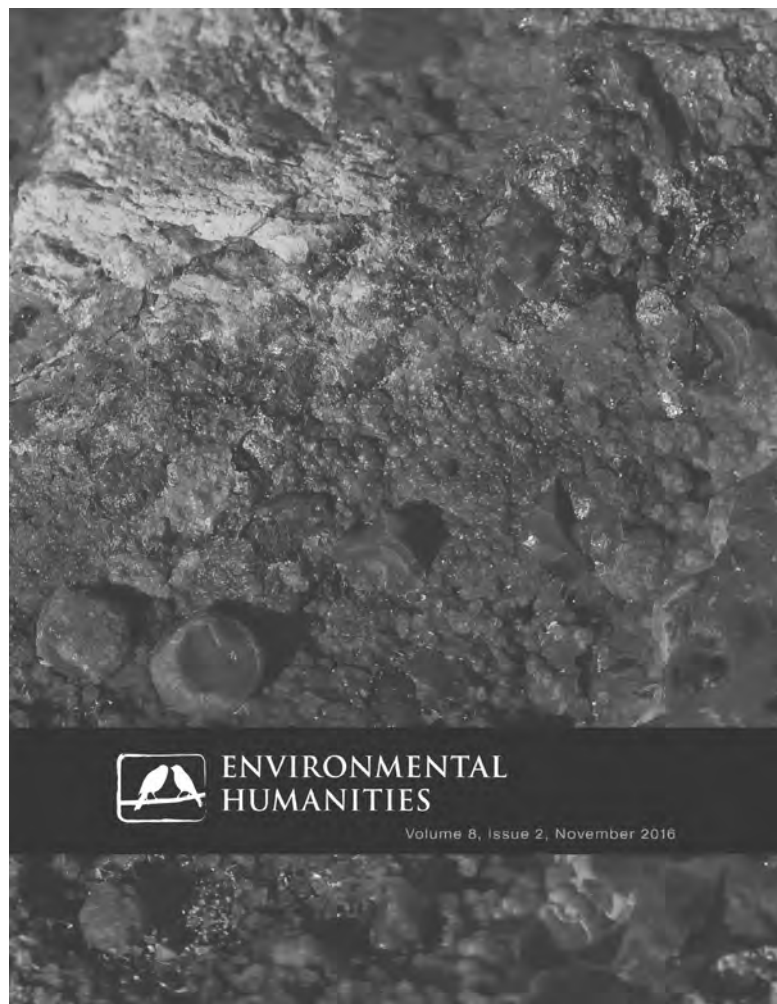
**AAG Business Meeting - Special Event**

Sunday, April 9, 2:00 p.m. - 3:00 p.m.  
(Fairfax B, Sheraton, Third Floor)



# Environmental Humanities

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# NEWCOMERS'

## Welcome to the AAG Annual Meeting!

This guide has been created by representatives of the Graduate Student Affinity Group (GSAG) and AAG staff to introduce you to the meeting and help you make the most of it. If you have questions that are not answered here, come by the AAG Booth or Registration Desk for assistance.

## General Tips

**Manage your schedule.** This is the largest geography conference in the world, so you'll find no shortage of activities that reflect your interests. With so much going on, you can't possibly do it all. Consider making a daily agenda to print or transfer to a smartphone and keep your conference program handy to confirm session details.

Download AAG's Mobile APP - a smartphone application that allows attendees to search the program for sessions, events, and other pertinent conference information.

**Prioritize your activities.** Search the online or printed conference program to identify topics, speakers, and sessions of interest. High-profile activities include plenary talks, keynote addresses, and session tracks organized around the featured themes of each conference.

**Be flexible.** Don't schedule your time so rigidly that you have to miss out on unexpected opportunities, such as a last-minute opening for an exciting field trip or a spontaneous conversation with a promising new contact. Refer to the daily updates, Geograms, to stay informed of any important announcements, cancellations, scheduling changes, or room location updates.

**Get out of your comfort zone.** The Annual Meeting is a great opportunity to explore a facet of the discipline that has piqued your curiosity or to become acquainted with a topic or technique that is completely new to you. Each specialty group (SG) highlights one session that showcases its focus, so these presentations are especially helpful for getting introduced to a new area of interest.

**Pace yourself!** Rest up so you can fully appreciate the conference's offerings. Be sure to set aside time to explore the city, make new contacts, and reconnect with friends and acquaintances as these can be valuable learning, networking, and professional development experiences. Lunch breaks are brief and conference facilities can get quite busy during these times, so consider having a snack and beverage on hand.

**Dress for success.** "Business casual" attire is appropriate for all conference events. Indoor temperatures can vary; consider wearing layers or carrying a light sweater or jacket. You might need to walk short distances between conference venues, so comfortable footwear is recommended.

## Session Types

**Paper sessions:** Each presenter speaks for 15-20 minutes including Q&A. You are not required to submit a copy of your paper.

**Panel sessions:** After preliminary comments, the panelists engage in a discussion with Q&A from the audience.

**Poster sessions:** Presenters are available to discuss their posters for the duration of the session.

**Illustrated paper sessions:** Presenters give brief talks about their posters. Afterwards, attendees can get a closer look and ask questions.

**Plenary sessions:** Several plenary sessions featuring highly distinguished speakers are hosted by the AAG, and some specialty groups organize topical plenary talks.

**"Author meets critics" sessions:** Audience members and panelists comment on a book and discuss it with its author.

## Session Participation Tips

Leave and enter quietly if you come or go during a session. If the room is full, find a seat on the floor or stand in the back.

Check out the room before you present, if you can.

Bring your presentation in two formats in case a computer can't read your file.

Introducing yourself to your co-presenters is a good way to network and make connections.

Be respectful of time limits and come well-prepared, having thoroughly rehearsed your presentation. You never know who might be in the audience, so be sure to put your best foot forward!

Consider taking some "time off" before your session to maintain your focus and steady any last-minute jitters.

Bring a few printed copies of your paper or presentation notes to share with audience members or new contacts.

As a presenter, it is polite to stay for the entire session.

## Networking Tips

If networking with specific people is high on your list of priorities, try to attend their sessions, or email them ahead of time with a request to connect during the meeting.

Carry business cards to give to new contacts.

Conference badges include participants' affiliations, so keep an eye out for representatives of organizations or departments of interest to you. Badge ribbons will alert you to attendees' roles at the meeting and within the association.



# GUIDE



**AAG 2017**  
BOSTON

If you attend an excellent talk, or if you have to miss a session of interest, consider following up with the presenter(s) after the meeting by phone or email. Many presenters are willing to share a copy of their presentation or paper upon request.

If you are a shy or introverted person, try a field trip or specialty group activity to meet new people in a smaller group and a more relaxed, informal setting. The “buddy system” is a good strategy for being comfortable at events and activities where you might not already know other participants.

## Events and Activities

**Field trips and workshops:** The program lists numerous opportunities to explore the city and surrounding regions with knowledgeable guides and to participate in workshops on a variety of topics. Advance registration and a fee are required for most field trips and workshops. Sign up early; these fill quickly. To inquire about availability or to register, visit the On-Site Registration Booth.

**Exhibit Hall:** The Exhibit Hall is a good place to mingle while browsing the booths of exhibitors and vendors, including major geography journal and book publishers. Books and journals are offered for sale and are often discounted for conference attendees. Some exhibitors conduct demonstrations, informal classes, and book receptions at various times during the conference. See the conference program and watch for announcements with further details.

**Jobs & Careers Center:** The Jobs & Careers Center, located in Rooms 203, 204 & 205, Hynes Convention Center, Second Level offers career advice, job postings, resources, and networking opportunities for professionals, students, and job seekers. Stop by the Jobs & Careers Information Booth for a schedule of activities and information about careers and professional development activities that will occur throughout the meeting.

**Specialty and Affinity Group meetings:** Even if you are not yet a member, consider attending a specialty/affinity group business meeting. Although these are not informational sessions, they offer the chance to learn more about the group’s activities and to meet others who share your research interests. Most groups have student representatives on their boards of directors, so getting involved is an excellent way to gain experience and develop your professional network.

Join listservs and AAG Knowledge Communities to receive announcements about other social activities and events.

## Special Events

The AAG hosts a large International Reception where you can connect with friends and colleagues and meet new people. This year’s event takes place on Friday, April 7, from 7:00 – 9:00 PM in Ballroom B, Hynes Convention Center, Third Level. Free drink tickets are included in your registration packet.

Many academic departments, specialty/affinity groups, and business meetings hold their own receptions, which are great networking opportunities. See the program and bulletin boards for details.

Winners of student awards and recipients of AAG honors are recognized at the Awards Luncheon, held on the last day of the conference. Tickets can be purchased at On-Site Registration.

The World Geography Bowl is a round-robin tournament featuring student teams from the AAG’s regional divisions. It starts at 7:00 pm on Saturday, April 8 in Meeting Rooms 101-105, Hynes Convention Center, Plaza Level.

## Planning for New Orleans 2018

Register for next year’s Annual Meeting as early as possible to take advantage of discounted rates. If you plan to present at the Annual Meeting, remember that abstracts are due several months in advance.

Many specialty groups give awards for outstanding student papers and posters presented during the Annual Meeting. Details vary by specialty group and may be posted on specialty group websites, AAG Knowledge Communities, and in the *AAG Newsletter*.

The AAG provides a subsidy to registered conference attendees for qualified child care expenses incurred during the meeting.

Students and unemployed/underemployed geographers who are AAG members may apply to serve as conference volunteers to help offset their registration costs.

Further information about all of the above and much more is available at: [www.aag.org/annualmeeting](http://www.aag.org/annualmeeting).

## Events for Newcomers

### AAG Booth

*Visit the AAG Booth in the Hynes Convention Center, Second Level if you have more questions during the conference.*

### Career Mentoring Sessions

*Drop-in advising open to all conference attendees, with an emphasis on answering questions about careers (Jobs & Careers Center, Room 203, Hynes Convention Center, Second Level)*

Wednesday-Saturday, April 5 - 8  
10:00-11:40 AM

### Welcome to AAG

*An orientation panel for first-time and newish attendees (Jobs & Careers Center, Room 203, Hynes Convention Center, Second Level) on Wednesday, April 5, 8:00-9:40AM*

# REVISTA **geográfica**

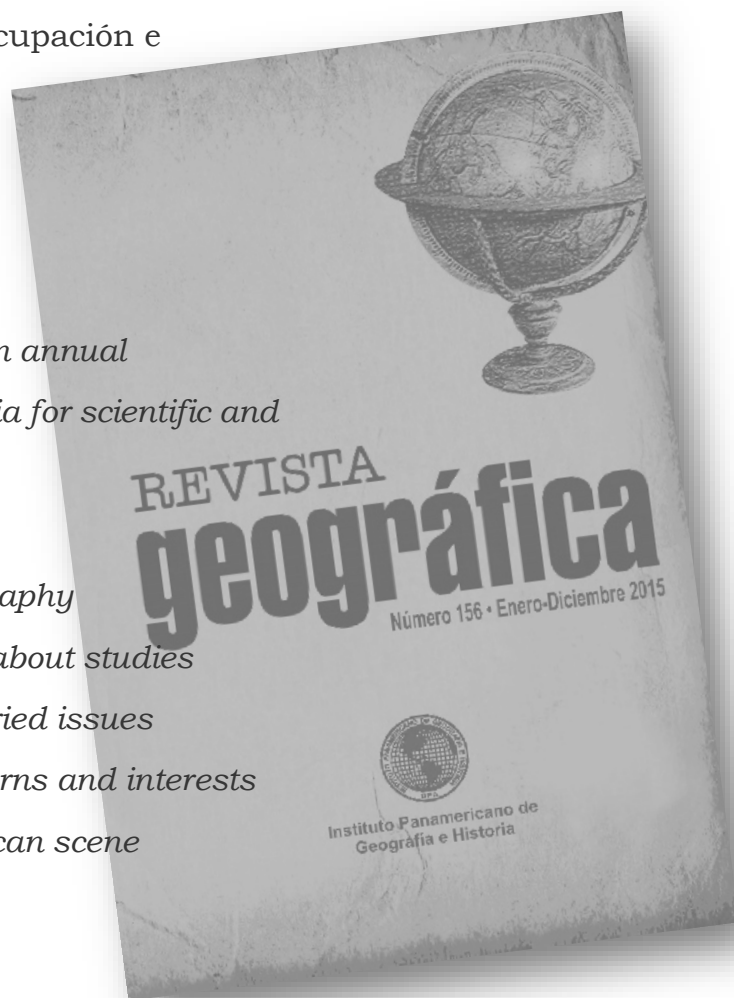
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## INSTITUTO PANAMERICANODE GEOGRAFÍA E HISTORIA

**L**a *Revista Geográfica* es una publicación anual y principal medio de expresión técnico y científica de la Comisión de Geografía del Instituto Panamericano de Geografía e Historia. Incluye artículos sobre estudios o investigaciones correspondientes a las más variadas temáticas de la geografía, en las que se concentra la preocupación e intereses de los geógrafos del mundo panamericano.

**T**he *Geographic Journal* is an annual publication and is the main media for scientific and technical publication of the Geography Commission of the Pan American Institute for Geography and History. It includes articles about studies and research covering all the varied issues of geography on which the concerns and interests of geographers in the Pan American scene are focused.



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## NEW

### POPULATION GEOGRAPHY

#### *Tools and Issues*

THIRD EDITION

By K. Bruce Newbold

This compact and accessible text provides a comprehensive, issue-oriented introduction to population geography. First grounding students in the fundamentals, Bruce Newbold then explains the tools and techniques commonly used to describe and understand population concepts using real-world issues and events. Ancillary materials include an author blog, PowerPoints, and a test bank.

### AN INTRODUCTION TO THE GEOGRAPHY OF TOURISM

SECOND EDITION

By Velvet Nelson

Tourism is an astonishingly complex phenomenon that is becoming an ever-greater part of life in today's global world. This clear and engaging text introduces undergraduate students to this vast subject through the lens of geography.

### CITIES OF THE WORLD

#### *Regional Patterns and Urban Environments*

SIXTH EDITION

Edited by Stanley D. Brunn, Maureen Hays-Mitchell, Donald J. Zeigler, and Jessica K. Graybill

This fully updated and revised sixth edition of the classic text, now with full-color illustrations, offers readers a comprehensive set of tools for understanding the urban landscape, and, by extension, the world's politics, cultures, and economies. Ancillary materials include an updated test bank and instructors' manual.

### CHINA'S GEOGRAPHY

#### *Globalization and the Dynamics of Political, Economic, and Social Change*

THIRD EDITION

By Gregory Veeck, Clifton W. Pannell, Youqin Huang, and Shuming Bao

### CONTEMPORARY ETHNIC GEOGRAPHIES IN AMERICA

SECOND EDITION

Edited by Christopher A. Airriess

### PLACING LATIN AMERICA

#### *Contemporary Themes in Geography*

THIRD EDITION

Edited by Edward L. Jackiewicz and Fernando J. Bosco

### NEW IN PAPER

### AMERICA'S PUBLIC LANDS

#### *From Yellowstone to Smokey Bear and Beyond*

By Randall K. Wilson

*J. B. Jackson Prize of the AAG  
CHOICE Outstanding Academic Title*

### AMERICA'S NATIONAL PARK SYSTEM

#### *The Critical Documents*

SECOND EDITION

By Lary M. Dilsaver

### THE DEMON OF GEOPOLITICS

#### *How Karl Haushofer "Educated" Hitler and Hess*

By Holger H. Herwig

### DELICIOUS GEOGRAPHY

#### *From Place to Plate*

By Gary Fuller and T. M. Reddekopp

### GEOPOLITICAL CONSTRUCTS

#### *The Mulberry Harbours, World War Two, and the Making of a Militarized Transatlantic*

By Colin Flint

### LAND REFORM IN SOUTH AFRICA

#### *An Uneven Transformation*

By Brent McCusker, William G. Moseley, and Maano Ramutsindela

### LANDSCAPE, MEMORY, AND POST-VIOLENCE IN CAMBODIA

By James A. Tyner

## RECENT FAVORITES FOR YOUR COURSES

### GEOPOLITICS

#### *The Geography of International Relations*

THIRD EDITION

By Saul Bernard Cohen

### THE EUROPEAN CULTURE AREA

#### *A Systematic Geography*

SIXTH EDITION

By Alexander B. Murphy, Terry G. Jordan-Bychkov, and Bella Bychkova Jordan

### CITIES OF NORTH AMERICA

#### *Contemporary Challenges in U.S. and Canadian Cities*

Edited by Lisa Benton-Short

### NORTH AMERICAN ODYSSEY

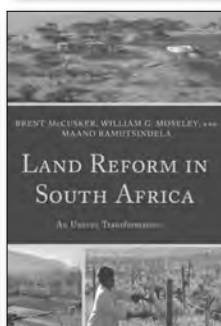
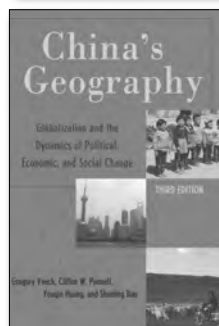
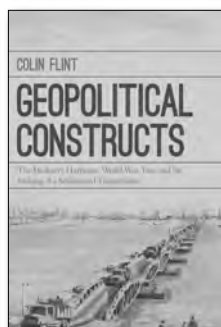
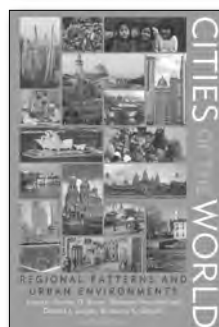
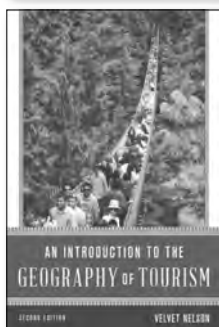
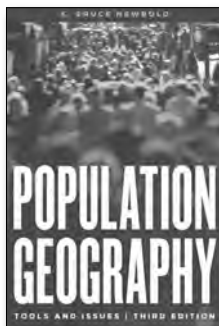
#### *Historical Geographies for the Twenty-first Century*

Edited by Craig E. Colten and Geoffrey L. Buckley

### A REGIONAL GEOGRAPHY OF THE UNITED STATES AND CANADA

#### *Toward a Sustainable Future*

By Chris Mayda



## Don't Miss It!

See Brent McCusker and William Moseley at the Author Meets Critics session for *Land Reform in South Africa* on April 6 at 8:00 am. See Colin Flint at the panel discussion for *Geopolitical Constructs* on April 7 at 3:20 pm.

eExam copies now available for most R&L textbooks!

To learn more, stop by our booth, or scan the QR code with your smart phone or tablet.



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## WORKSHOPS

**NOTE: If you have not already registered in advance online, you must visit the AAG Registration Desk to sign up for a Workshop.**

### WEDNESDAY, APRIL 5

#### **W1\_1 Writing from Qualitative Data: an Advanced PhD Student Workshop**

Wednesday, April 5, 8:00 a.m. – 12:00 p.m.

Organizers: Dan Trudeau (Macalester College) & Dydia Delyser (California State University, Fullerton)

Capacity: 16

Cost/person: \$12.00

**Room:** Sheraton, Beacon A

This workshop provides training on how to move from the collection and analysis of qualitative data to communicating the insights of qualitative research to an academic audience. The workshop is geared to PhD students working on writing a dissertation from qualitative data who have begun or finished data collection. Participants will work in a hands-on setting to approach writing from qualitative data as a series of decisions about what to say and how to communicate it with a particular audience. Particular emphasis is placed on how to communicate methods, ways of knowing, and ethical considerations.

#### **W1\_2 Networking: Promoting Yourself by Making Connections that Count**

Wednesday, April 5, 10:00 a.m. – 11:40 a.m.

Organizers: Niem Huynh (AAG) & Angela Rogers (Penn State University)

Capacity: 30

Cost/person: \$0

**Room:** Hynes Center, Room 204

This workshop features the art of networking with a focus on how to develop an effective and memorable "elevator pitch," and what this promotional sound bite about yourself sounds like to prospective employers in different scenarios. The facilitators will guide participants through an interactive workshop to develop and practice your networking skills on how to: creatively introduce yourself, develop and deliver a dynamic "elevator pitch," and how to efficiently "work" a room to make connections with key people. The activities will be followed by a debriefing and time for Q&A.

#### **W1\_3 Exploring Web GIS**

Wednesday, April 5, 10:00 a.m. – 11:40 a.m.

Organizers: Astrid Ng (Esri) & Angela Lee (Esri)

Instructor: Geri Miller (Esri)

Capacity: 30

Cost/person: \$0

**Room:** Sheraton, Bay Back B

In this workshop we will cover what sets Web GIS apart from its predecessors (Desktop and Server GIS) and look at best practices for deploying Web GIS in academia. We will examine

the various components of Web GIS and talk about options for configuring Web GIS to support both teaching and research—using a combination of portals, web apps and desktop apps. The concept of identity and user management will be discussed, along with traditional GIS workflows and capabilities. Resources to help teach Web GIS and environments in which to teach and implement Web GIS will be examined in detail.

#### **W1\_5 How to Shine: Polish Your Resume and Cover Letter**

Wednesday, April 5, 12:40 p.m. – 2:20 p.m.

Organizers: Niem Huynh (AAG) & Nick Kelch (Esri)

Capacity: 30

Cost/person: \$0

**Room:** Hynes Center, Room 204

This workshop provides an overview of Resume & Cover Letter writing strategies with focus for non-academic applications. The workshop is founded on activities to illustrate key points and highlight three areas, 1) how to emphasize transferable skills in application documents, 2) how to make your resume and cover letter stand out and 3) how to condense an academic CV to a 1-page resume. Please bring one copy of your resume and cover letter for the exercise.

#### **W1\_6 Incorporating ArcGIS Pro in Your Curriculum**

Wednesday, April 5, 12:40 p.m. – 2:20 p.m.

Organizers: Astrid Ng (Esri) & Angela Lee (Esri)

Instructor: Geri Miller (Esri)

Capacity: 30

Cost/person: \$0

**Room:** Sheraton, Bay Back B

GIS users are quickly adopting ArcGIS Pro as their main desktop application. In this workshop we will cover essential concepts that you need to know to get started with ArcGIS Pro. We will discuss how ArcGIS Pro fits in a GIS pattern and will cover common GIS workflows for data management, mapping and visualization, analysis and sharing of content. Emphasis will be placed on teaching ArcGIS Pro in a GIS curriculum along with an overview of available resources that could be used in the classroom.

#### **W1\_7 Stand Out from the Rest: Nailing Your Career Fair Interaction**

Wednesday, April 5, 2:40 p.m. – 4:20 p.m.

Organizers: Astrid Ng (Esri) & Angela Lee (Esri)

Instructor: Nick Kelch (Esri)

Capacity: 30

Cost/person: \$0

**Room:** Sheraton, Room 204

This workshop focuses on the interaction that takes place at a career fair. We will provide you with the tips & tricks needed to successfully navigate this process by walking you through the three main components of any career fair: 1) Preparation, 2) the career fair interaction, and 3) what to do after the career fair. Please bring a copy of your cover letter and resume.

## WORKSHOPS

### **THURSDAY, APRIL 6**

#### **W2\_1 Say It Well: Make an Impression at the Interview**

Thursday, April 6, 8:00 a.m. – 9:40 a.m.

Organizer: Niem Huynh (AAG)

Capacity: 30

Cost/person: \$0

**Room:** Hynes Center, Room 203

You've been invited for a job interview! How do you prepare and how should you say it? This interactive workshop brings together theory and practice to prepare you for your next interview. The workshop builds on activities and group work to highlight three areas of a strong interview, 1) content of response 2) body language and voice and 3) interview preparation. Be prepared to engage and practice your "perfect" answer.

#### **W2\_2 Using LiDAR Data for Terrain Analysis, Volume Calculation, and Change Detection**

Thursday, April 6, 9:00 a.m. – 11:00 a.m.

Organizer: David McKittrick (Blue Marble Geographies)

Capacity: 30

Cost/person: \$0

**Room:** Sheraton, Beacon A

The increased availability of LiDAR and other 3D point cloud datasets have provided the means to measure and analyze spatial and temporal patterns in the terrain. In this workshop, we will explore the procedure for transforming raw X,Y,Z point files into an accurate surface model that can be used for precise ground analysis. We will demonstrate a series of workflows for calculating volume, measuring and visualizing change, delineating watershed patterns, modifying or flattening a terrain surface, and creating contour lines. This workshop will provide a basic introduction to LiDAR and its application for terrain analysis.

#### **W2\_3 Spatial-Temporal Predictive Modeling with Open Source and Open Data for Urban Areas - Kick - off Workshop**

Thursday, April 6, 9:00 a.m. – 1:00 p.m.

Organizers: Luis Santa (GEO-C Doctorate in Geoinformatics:

Enabling Open Cities) & Shivam Gupta (GEO-C Doctorate in

Geoinformatics: Enabling Open Cities)

Capacity: 25

Cost/person: \$5.00

**Room:** Sheraton, Beacon B

The half-day workshop is aimed as a collaborative exercise, which extends ongoing research for developing open smart cities, using open data and open source statistical and GIS tools. Also, to provide a comprehensive but digestible introduction to the most common methods of analysis and geomatics work flows which are nowadays often encountered when tackling various issues in urban agglomerations. Given a multi-tiered nature of contemporary web applications, we propose an interactive session devoted to a R-supporting middleware, as well as the of statistical packages for popular web frameworks. The exercises in form of examples from fields of air pollution, climate and transportation among others.

#### **W2\_4 Geo Apps: Modern Day GIS**

Thursday, April 6, 10:00 a.m. – 11:40 a.m.

Organizers: Astrid Ng (Esri) & Angela Lee (Esri)

Instructor: Geri Miller (Esri)

Capacity: 30

Cost/person: \$0

**Room:** Sheraton, Bay Back B

In this workshop we will cover various apps that are available as part of a Web GIS pattern. GIS has evolved to be a web-centric technology and an important part of modern day GIS is the use of apps available to support common GIS workflows and make information readily available to those who need it. The workshop will examine many different apps available for sharing information with the community, apps for field data collection, apps for office, and configurable builder applications. Emphasis will be on using apps in academic setting for teaching, research and campus administration.

#### **W2\_5 GISCI - An Exploration of Professionalism Early in a Career or Profession**

Thursday, April 6, 1:20 p.m. – 3:00 p.m.

Organizer: Bill Hodge (GISCI)

Capacity: 30

Cost/person: \$0

**Room:** Hynes Center, Room 205

Individuals attending this workshop will receive information on the various facets of a professional career, especially from a geospatial perspective.

Included will be a discussion of certification and professional credentials in general, and the GISCI, specifically, and how this area can help an individual succeed early and throughout one's career.

## WORKSHOPS

### **W2\_6 Compelling Cartography with ArcGIS**

Thursday, April 6, 1:20 p.m. – 3:00 p.m.

Organizers: Astrid Ng (Esri) & Angela Lee (Esri)

Instructor: Ken Field (Esri)

Capacity: 30

Cost/person: \$0

**Room:** Sheraton, Back Bay B

This workshop will showcase a range of techniques that take your map-making beyond the defaults. We'll illustrate how you can build and style custom basemaps for use with your online maps and explore a range of mapping techniques including flow maps, pictorial symbols and cartograms. We'll also explore how you can create artistic maps with beautiful hillshades, different terrain representation and 3D. We'll show how to take advantage of new and powerful cartographic features in ArcGIS Pro, where to download some great free cartographic tools and how to begin to think creatively to create beautiful and compelling maps.

### **W2\_10 Wine Specialty Group; Wines of the Northeast United States**

Thursday, April 6, 2:00 p.m. – 5:00 p.m.

Organizers: Percy Dougherty (Wine Specialty Group) & Robert Ziegenfus (Kutztown University)

Capacity: 23

Cost/person: \$20.00

**Room:** Sheraton, Beacon B

Wines from the NE US will be tasted in order to illustrate regional differences in grape types grown in cooler climates. Participants will be led through an exercise in which the effects of the physical geography on the smell and taste of Riesling, Pinot Noir, and Chardonnay will be shown. An opportunity to sample several cold hardy French Hybrid wine will show how the area has adapted to a short growing season.

### **W2\_7 Walking the Tightrope: Practical Ideas for Building Inclusive Spaces for Women in Geography**

Thursday, April 6, 3:20 p.m. – 5:00 p.m.

Organizers: Patricia Solis (Texas Tech University) & Rickie Sanders (Temple University)

Capacity: 30

Cost/person: \$0

**Room:** Hynes Center, Room 205

Join us for the fourth annual workshop in a series of themes addressing career advancement and success for women in Geography. The basis of this year's workshop is to facilitate discussion among men and women to find practical ways to overcome and thrive despite challenging climates on our campuses, workplaces, and in society at large. How can we build truly inclusive spaces that recognize the multiple subjectivities of women across categories of race, ethnicity, national origin, sexual orientation, able-bodiedness, and other axis of difference? How can we respond to challenges to inclusion or expressions of hate from within our work settings, and in both virtual and real spaces? How can we effectively promote self-care and solidarity during difficult times? In this highly interactive session, we will

explore how to think about promoting a career in less than ideal institutional contexts while getting beyond setbacks.

### **W2\_8 Writing Successfully for the Journal of Geography in Higher Education (JGHE)**

Thursday, April 6, 3:20 p.m. – 5:00 p.m.

Organizers: Derek France (University of Chester) & Bob Bednarz (Texas A&M University)

Capacity: 30

Cost/person: \$0

**Room:** Sheraton, Beacon A

*Sponsored by: The Journal of Geography in Higher Education & Taylor Francis Routledge*

After discussing the mission of the Journal of Geography in Higher Education (JGHE), the organisers will explain the submission, review, and publication processes. Topics will include the nature of material appropriate for submission, the type and levels of evidence necessary to support findings, the recommended length of manuscripts, advice about writing for an international readership, and JGHE's citation index. Prospective authors are encouraged to interact with the panellists through an interactive peer review exercise to demystify the peer review process and to discuss issues specific to manuscripts they are planning to write.

### **W2\_9 Undertaking a Smart Campus Project**

Thursday, April 6, 3:20 p.m. – 5:00 p.m.

Organizers: Astrid Ng (Esri) & Angela Lee (Esri)

Instructor: Michael Gould (Esri)

Capacity: 80

Cost/person: \$0

**Room:** Sheraton, Bay Back B

Smart Campus is a GIS-based, multi-participant project that allows you to experiment with Smart City concepts, practice enterprise GIS methodology, and impress your dean with practical campus apps. This workshop explains the Smart Campus concept and highlights free application templates (many extended from Local Government users) that are ready to be applied. We present a wide range of possible campus apps that have been created around the world. Finally, we cover lessons learned regarding logistics and campus politics while undertaking these projects, and we invite your contributions to this discussion.

### **W2\_13 GeoMentors: A Program Primer and Strategies for Success**

Thursday, April 6, 3:20 p.m. – 5:00 p.m.

Organizer: Candice Luebbering (American Association of Geographies)

Capacity: 30

Cost/person: \$0

**Room:** Hynes Center, Room 203

The AAG-Esri GeoMentors program is a nationwide network of volunteers supporting Esri's donation of ArcGIS online software to US K-12 schools ([www.geomentors.net](http://www.geomentors.net)). GeoMentors help

## WORKSHOPS

schools and teachers introduce GIS and geographic concepts into classrooms across the country. Current and aspiring GeoMentor volunteers are encouraged to attend this workshop led by GeoMentors program staff. It will provide a program overview, covering aspects from the registration process and finding collaborators to available resources and example activities. Participants are encouraged to ask questions, share experiences, and discuss strategies, challenges, and success stories of the GeoMentors Program and general K-12 outreach efforts.

### **FRIDAY, APRIL 7**

#### **W3\_1 What's New in ERDAS IMAGINE**

Friday, April 7, 8:30 a.m. – 12:30 p.m.

Organizer: Michael Lane (Hexagon Geospatial)

Capacity: 30

Cost/person: \$0

**Room:** Sheraton, Beacon A

This workshop will focus on the latest and greatest features in ERDAS IMAGINE, including building customized analytics with Spatial Modeler. Spatial Models have been used extensively for decades for a variety of processing capabilities in ERDAS IMAGINE. In the last few years, a complete re-architecting of the Spatial Modeler has resulted in a much broader set of capabilities, including the ability to publish new products via Hexagon Geospatial's new cloud-based Smart M.Apps. Take geospatial to the next level and learn how you can become a part of the next generation of spatial innovation.

#### **W3\_8 Get Knowledge You Don't Get in College: An Interactive Workshop on Practical Professional Skills**

Friday, April 7, 9:00 a.m. – 12:00 p.m.

Organizer: Drew Lehman (Drew Lehman Environmental and Education)

Capacity: 48

Cost/person: \$0

**Room:** Hynes Center, Room 204

Join an interactive session that addresses the practical realities of entering and succeeding in public, private and non-profit sectors. This workshop is led by an applied Geographer during whose career in sustainable infrastructure (wastewater, recycling, composting, disposal) has recruited, trained and managed over 100 professionals nationwide, and visited 250+ operating facilities (water, power, sewer, trash, transportation). Learn about skills employers need and want in employee prospects. Great for students and transitional employees alike. Invest in yourself; come and stay for the full 3-hour session.

NOTE: Space is limited (48 - Room 204 Hynes Center). Pre-registration preferred.

#### **W3\_2 Land Change Analysis**

Friday, April 7, 9:00 a.m. – 4:00 p.m.

Organizer: Robert Pontius (Clark University)

Capacity: 30

Cost/person: \$40

**Room:** Sheraton, Beacon B

This workshop includes lectures, discussion and hands-on training concerning GIS-based measurement and simulation of land change. Concepts include: quantity difference, allocation difference, calibration, extrapolation, validation, total operating characteristic and Intensity Analysis (<https://sites.google.com/site/intensityanalysis/>). Typical participants range from graduate students to experienced GIS professionals. Prior experience with GIS is not necessary. Participants should bring their computers on which they have loaded free materials from [www.clarku.edu/~rpontius](http://www.clarku.edu/~rpontius). Participants are entitled to a 50% discount on a general, academic, or student license of TerrSet ([www.clarklabs.org](http://www.clarklabs.org)). Clark University Professor Robert Gilmore Pontius Jr has presented this workshop dozens of times in 16 countries (<https://www.youtube.com/watch?v=h-wcuY9zmF4&feature=youtu.be>).

#### **W3\_3 Web GIS Administration: Tips and Tricks**

Friday, April 7, 10:00 a.m. – 11:40 a.m.

Organizers: Astrid Ng (Esri) & Angela Lee (Esri)

Instructor: Geri Miller (Esri)

Capacity: 30

Cost/person: \$0

**Room:** Sheraton, Bay Back B

In this workshop we will cover best practices for Web GIS management and administration in an academic setting. We will start with out of the box tools and workflows available to create an effective Web GIS portal and efficiently manage users, content and credits. We will also discuss 3rd party solutions which are available to simplify these tasks. In addition, we will cover a new Python API that empowers administrators to easily manage large number of users, content and sharing workflows. Newer features such as Portal to Portal collaboration and their implications for teaching and research will be examined.

#### **W3\_4 Dealing with Incomplete Data for Mapping and Spatial Analysis**

Friday, April 7, 1:20 p.m. – 3:00 p.m.

Organizers: Astrid Ng (Esri) & Angela Lee (Esri)

Instructor: Aileen Buckley (Esri)

Capacity: 30

Cost/person: \$0

**Room:** Sheraton, Bay Back B

Many data sets are incomplete causing problems when performing spatial analysis or when mapping. Sometimes the data is unable to be collected, other times the data is collected but its quality is questionable or the method of collection is suspect, and still other times the data is collected but not shared. When data sets are incomplete, they can cause errors or biases in spatial analyses and result in uninformative or incomplete-looking maps. This workshop examines a variety of approaches

## WORKSHOPS

that can be taken to help to mitigate these problems and evaluates their relative strengths and weaknesses.

### **W3\_5 Preparing Geography Students for the 21st Century Workforce**

Friday, April 7, 1:20 p.m. – 3:00 p.m.

Organizers: Niem Huynh (AAG) & Michael Solem (AAG)

Instructor: Joseph Kerski (Esri)

Capacity: 30

Cost/person: \$0

**Room:** Hynes Center, Room 204

Despite rapidly evolving and expanding employment opportunities, many students are unfamiliar with the numerous career paths for which a degree in geography can prepare them. Using the recent AAG publication *Practicing Geography: Careers for Enhancing Society and the Environment* (Pearson 2013) as a resource, the workshop facilitators -- who are contributing authors to the book -- will introduce participants to a series of classroom activities that have been designed to raise students' awareness of employment prospects for geographers and to help them recognize and articulate the value of their geography training to potential employers. The participants will then break into small groups to brainstorm ideas for adapting these exercises to the specific needs of students at their grade level and institution type. This workshop is suitable for educators at all grade levels and career stages.

### **W3\_7 Telling Your Story with Esri Story Maps: A New Medium for Geography-Based Storytelling**

Friday, April 7, 3:20 p.m. – 5:00 p.m.

Organizers: Astrid Ng (Esri) & Angela Lee (Esri)

Instructors: Joseph Kerski (Esri) & Allen Carroll (Esri)

Capacity: 30

Cost/person: \$0

**Room:** Sheraton, Bay Back B

Explore why and how to communicate using today's web mapping tools, include creating your own multimedia stories utilizing Esri's storytelling web applications. Audience, goals, mobile devices, symbology, classification methods, and other considerations and skills will be demonstrated and practiced. Hands-on work with Esri's powerful and easy-to-use Story Maps platform will include how to incorporate multimedia and how to share your work with selected audiences. We'll focus on how faculty and students can author story maps, and how to use Story Maps as communication and assessment tools in your instruction. Bring your own laptop if you wish to do hands-on work.

## **SATURDAY, APRIL 8**

### **W4\_1 Spatial and Temporal Analysis with R**

Saturday, April 8, 9:00 a.m. – 6:00 p.m.

Organizer: Benoit Parmentier (Sustainability Solutions Initiative)

Instructors: Albert Decatur (Hachure LLC) & Marco Millones (Mary and Washington University)

Capacity: 20

Cost/person: \$65.00

**Room:** Sheraton, Beacon B

This workshop will introduce participants to R for GIS spatial and temporal analysis with emphasis on raster data. The workshop will start with a short introduction to R and review the different packages available to carry out GIS analyses. Topics include performing map algebra, plotting raster/vector, raster cropping, raster extraction using vector data and other raster processing. The workshop will also cover basic raster time series analysis using raster image stack. If time permits, kriging and regression models will be carried out on climate stations data using covariates as an example of raster modeling.

### **W4\_2 subconference : Study**

Saturday, April 8, 12:00 p.m. – 4:00 p.m.

Organizers: Christian Anderson (University of Washington Bothell) & Elsa Noterman (University of Wisconsin – Madison)

Capacity: 30

Cost/person: \$0

**Room:** Sheraton, Beacon A

This workshop will pursue what Fred Moten, Stefano Harney, and others have simply named “study”—a mode of thinking together and embedding ourselves with and for others, huddled against the atomizing forces of institution and profession. Participants will share and create methods for collective thought and action “in but not of” the spaces we often find ourselves in—classrooms, meetings, professional conferences, etc.—precisely in the interests of making the activities that go on in those spaces a critical resource for the kinds of research, scholarly praxis, and transformative collective action that seem urgently necessary at the present historical moment.

### **W4\_3 Geography of Networks**

Saturday, April 8, 10:00 a.m. – 5:00 p.m.

Organizers: Pierre-Alexandre Balland (Utrecht University) & Andrea Morrison (Utrecht University)

Capacity: 30

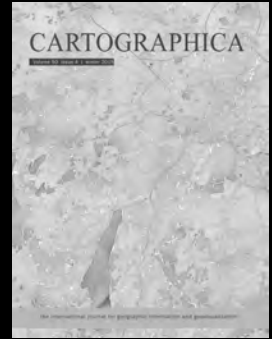
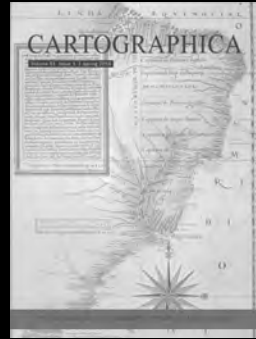
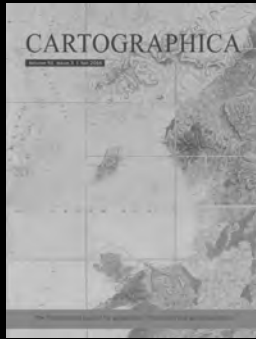
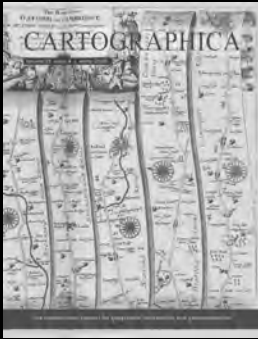
Cost/person: \$39.00

**Room:** Sheraton, Clarendon

Geographers use concepts and methods from network science to understand a complex, global, and interconnected world. In network thinking, the fundamental unit of analysis consists of the relationships among interacting units rather than the individual characteristics of these units. The ability to analyze the particular way relationships are organized - i.e. the network structure - is crucial in understanding complex phenomena in nature and society. In this course, we discuss how a network perspective can help us to re-think key issues in geography (with a focus on human geography). This course is an introduction to network analysis and consists of lectures combined with computer exercises (no prior knowledge is needed).



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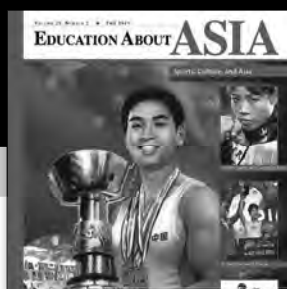
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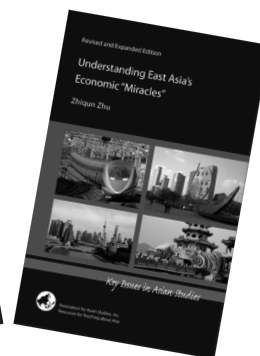
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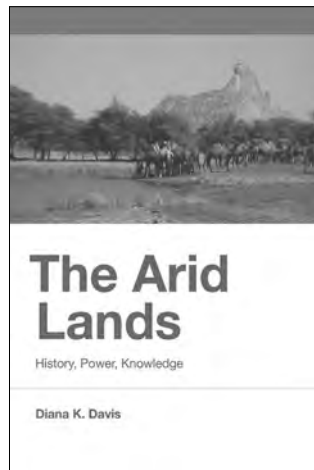
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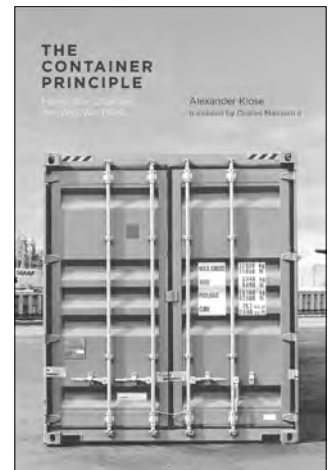
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## FIELD TRIPS

*Field trips will depart from Dalton Street Entrance, in the main lobby of the Sheraton Hotel.*

**NOTE: If you have not already registered in advance online, you must visit the AAG Registration Desk to sign up for a Field Trip.**

### **TUESDAY, APRIL 4**

#### **F0\_1 Cultural Geography of Boston's Immigrants**

Tuesday, April 4, 9:00 a.m. – 1:00 p.m.

Organizer: Ruth Allen (AAG)

Trip Capacity: 35

Cost/person: \$48

Explore the cultural geography of Boston's immigrants and connections with civil/human rights through 400 years of history in the Roxbury neighborhood. From early European immigrants, to the center of Jewish and later African-American communities, and now African immigrants, Roxbury's evolution continues. The tour starts with a drive through Frederick Law Olmsted's Franklin Park, home to abolitionists supporting Harriet Tubman. Local organization, Discover Roxbury, will lead the group through historic John Elliot Square, the active archeological excavation of Malcolm X House, the Islamic Society of Boston Cultural Center, and lunch at Butterfly Cafe, the center for Somali political refugees in Boston.

#### **F0\_3 Visit Historic Maps of New England & Sip Scotch at the Harbor Hotel**

Tuesday, April 4, 7:30 p.m. – 9:00 p.m.

Organizer: Kris Butler (Boston Map Society)

Trip Capacity: 50

Cost/person: \$5.00

Join members of the Boston Map Society for an informal stroll around historic maps of New England while sipping your beverage of choice! Part of the Leventhal Map Center's collection is inside the Boston Harbor Hotel, as is Boston's best Scotch list and local beer. Take the T to the Aquarium stop (blue line); pay-as-consume. 7:30 - 9:00, Tuesday, April 4. *Please note that attendees are responsible for getting themselves to the Boston Harbor Hotel. The organizer will reach out closer to the trip to provide attendees directions.*

### **WEDNESDAY, APRIL 5**

#### **F1\_1 Walking Tour of Landmaking on Boston's Central Waterfront**

Wednesday, April 5, 9:00 a.m. – 12:00 p.m.

Organizer: Nancy Seasholes (Atlas of Boston History)

Trip Capacity: 30

Cost/person: \$11.50

This walking tour will trace the landmaking that created what is now Boston's Central Waterfront. The tour will progress from the sites of the earliest filling in the 17th century to the

latest in the 1870s. *Please note that the \$11.50 charge includes transportation fees, handouts, and the AAG admin fee.*

#### **F1\_6 Celebrate the 10th Anniversary of the Big Dig from the Water**

Wednesday, April 5, 9:00 a.m. – 12:00 p.m.

Organizers: Keith Ratner (Salem State University) & Andrew Goetz (University of Denver)

Trip Capacity: 50

Cost/person: \$53.00

*Sponsored by: AAG Specialty Group, Transportation*

See the "Big Dig" from the unique perspective of the water around the project. Starting on the Charles River, the trip travels under the new symbol of Boston, the Zakim Bridge and through the Gridley Dam locks into the Inner Harbor. Through the Boston Harbor, next stop is the Fort Point Channel, site of the most expensive piece of Interstate Highway in America. Finally, the East Boston portal of the Ted Williams tunnel is visited. Accompanying the trip is Wentworth Institute of Technology Professor Jim Lambrechts who spent 10 years figuring out the many geotechnical problems of the project.

#### **F1\_2 Tour of Leventhal Map Center at the Boston Public Library**

Wednesday, April 5, 10:00 a.m. – 11:30 a.m.

Organizer: Ronald Grim (Leventhal Map Center at Boston Public Library)

Trip Capacity: 20

Cost/person: \$5.00

Learn about the physical and online cartographic resources available at the Boston Public Library. This tour will introduce participants to three aspects of the LMC collection. The curator will provide an overview of the collection highlighting a selection of historic treasures. The assistant curator will lead a walk-through of the current gallery exhibition, "Regions and Seasons: Mapping Climate through History," and the reference and geo-spatial librarian will demonstrate LMC online resources including a new digital collection incorporating images of historic maps from ten partner institutions focusing primarily on the Revolutionary War era.

#### **F1\_3 Walk & Learn: The Planning of Boston, the Greenway, and the Legacy of the Big Dig**

Wednesday, April 5, 10:00 a.m. – 1:00 p.m.

Organizers: Zachary Jones (Regional Development and Planning Specialty Group) & Sara Myerson (Boston Planning and Development Agency)

Trip Capacity: 30

Cost/person: \$30.00

*Sponsored by: AAG Specialty Group, Regional Development and Planning Specialty Group*

Participants will travel by MBTA (tickets included in the field trip cost) to Boston's City Hall. Accompanied by staff from

## FIELD TRIPS

*Field trips will depart from Dalton Street Entrance, in the main lobby of the Sheraton Hotel.*

the Boston Planning and Development Agency, this tour will include a presentation of the "Bird's-eye Boston" model of The Hub at City Hall. From there the tour will walk to the Greenway park system to discuss the legacy of the Big Dig. The tour will part ways with the BPDA staff and walk leisurely along the Greenway Park system paths. The tour will ride the MBTA back to the conference. Please be advised: the Greenway walk is approximately one mile.

### **F1\_4 Fenway Park Tour**

Wednesday, April 5, 11:00 a.m. – 2:00 p.m.

Organizers: Jase Bernhardt (Hofstra University) & Jonathan Kirk (Kent State University)

Trip Capacity: 27

Cost/person: \$27.00

Calling all baseball fans! Join us in a tour of the neighborhood ballpark-- historic Fenway Park. Located less than one mile from the Hynes Convention Center, Fenway Park has been home to the storied Boston Red Sox franchise since 1912, making it the oldest Major League Baseball stadium currently in operation, with its iconic "Green Monster" a Boston landmark. We will depart from the Hynes Convention Center, walking through the Fenway neighborhood on our way to the ballpark. Our one hour guided tour will include stops at all of Fenway Park's famous sites, with an optional lunch at a local tavern afterward.

## **THURSDAY, APRIL 6**

### **F2\_1 African American, Latino and Vietnamese Community Activism in Boston**

Thursday, April 6, 8:30 a.m. – 12:30 p.m.

Organizers: Yuko Aoyama (Clark University) & Son Ca Lam (Clark University)

Trip Capacity: 20

Cost/person: \$52.00

Boston is a majority-minority city. To showcase diversity and understand community activism in the city, we will visit Dorchester district and VietAID (Vietnamese American Initiative for Development), and two stops in the South End district: Inquilinos Boricuas en Acción (runs affordable housing Villa Victoria and Latino Center for the Arts), and South End Technology Center @ Tent City (African American educational initiative co-founded by Mel King). The tour involves bus rides and moderate city walking. Recommends wearing comfortable walking shoes and bringing water. Fieldtrip fee includes modest contribution to the community.

### **F2\_8 Public Transit and Changing Urban Spaces in Metropolitan Boston**

Thursday, April 6, 8:30 a.m. – 4:30 p.m.

Organizer: Keith Ratner (Salem State University)

Trip Capacity: 35

Cost/person: \$42.00

*Sponsored by: AAG Specialty Group, Transportation*

This trip views changing urban spaces around several different public transportation lines and stations in Boston. Light rail, heavy rail, and bus rapid transit (BRT) along with two of Boston's major train stations are visited. The new, popular Assembly Square mixed use, smart growth development on the heavy rail Orange Line in Somerville is the first stop. Cambridge on the heavy rail Red Line is next, with stops at the rapidly changing "Innovation Hub" of Kendall Square, and also Davis Square, which gentrified in the 1980s. Lunch will be eaten in Davis Square. In the afternoon, the first stop is South Station in Boston. Then, the Silver Line BRT is ridden to the booming Seaport District. Next, the redeveloping Downtown Crossing District and Boston Common are visited. Finally, the light rail Green Line is ridden through the tunnels of America's first subway back to Copley Square.

### **F2\_2 Otis House, 1796, A National Historic Landmark**

Thursday, April 6, 9:30 a.m. – 11:30 a.m.

Organizer: Shira Goldstone (Historic New England)

Trip Capacity: 42

Cost/person: \$32.00

Otis House is the last surviving mansion in Bowdoin Square in Boston's West End neighborhood. Charles Bulfinch designed the house for Harrison Gray Otis, a lawyer who was instrumental in developing nearby Beacon Hill, served in Congress, and was a mayor of Boston.

Otis House is the first of three houses Bulfinch designed for Harrison Gray Otis and his wife Sally Foster Otis. The house's design reflects the classical proportions and delicate detail of the Federal style.

Visitors learn about the Otis family's life in the Federal era and the later history of the house, when it served as a clinic and a middle-class boardinghouse. The restoration of Otis House and its brilliantly colored wallpapers, carpeting, and high-style furnishings, is based on meticulous historical and scientific research.

## FIELD TRIPS

*Field trips will depart from Dalton Street Entrance, in the main lobby of the Sheraton Hotel.*

### **F2\_9 Tour Harvard Forest**

Thursday, April 6, 10:00 a.m. – 5:30 p.m.

Organizer: Brenden McNeil (Harvard Forest)

Trip Capacity: 27

Cost/person: \$73.00

*Sponsored by: AAG Specialty Group, Biogeography*

Located 1.5 hours west of Boston in Petersham, MA, the Harvard Forest of Harvard University is one of the most intensely-studied forest ecosystems in the world. Since 1915, the forest has been a leading laboratory and research center for environmental scholarship. Participants on this day-long field trip will tour the forest alongside Harvard Forest staff to learn more about the forest's ongoing contributions to geographic sub-fields of biogeography, remote sensing, environmental history, phenology, and global change. Trip costs include round-trip transportation from the conference hotel, and a box lunch.

### **F2\_4 Open Space Land Conservation, Prospect Hill Park, Waltham**

Thursday, April 6, 12:30 p.m. – 3:30 p.m.

Organizers: Sonja Wadman (Waltham Land Trust) & David Kehs (Waltham Land Trust)

Trip Capacity: 35

Cost/person: \$30.00

This 2-mile hike over 252 acres of varied terrain will take visitors through one of Metrowest's largest parks and over and around the third highest hilltop in the Greater Boston area.

Prospect Hill Park's trails pass through woodlands and over several hills, visiting vernal pools, old stone walls and farm foundations, and locally famous Dinosaur Rock.

Visitors will see a stunning view of Boston from the 435-foot summit of Little Prospect Hill and western views as far as Mt Monadnock from 485-foot Big Prospect.

This hike will be guided by personnel from the Waltham Land Trust.

### **F2\_5 The Power of Community. Decatur Way, Lowell MA Transformed into Community Resource/Walkway**

Thursday, April 6, 1:00 p.m. – 5:00 p.m.

Organizer: Sheila Carman (AAG/Green Drinks Greater Lowell)

Leader: David Ouelette (Acre Coalition to Improve Our Neighborhood)

Trip Capacity: 14

Cost/person: \$48.00

The collaboration of community groups, local government and the University of Massachusetts Lowell transformed a blighted alley, with overgrown bush and trash that attracted illegal activity, into a safe community resource.

Lowell Regional Wastewater Utility, which saw the new alley as a way to reduce rainwater flow in the Acre neighborhood by utilizing porous pavement, worked with the community group, Acre Coalition to Improve Our Neighborhood (ACTION) to turn

the alleyway into a "green" walkway where people can stroll and enjoy art.

### **F2\_10 Food and Agriculture Across Boston's Urban/Rural Gradient**

Thursday, April 6, 1:00 p.m. – 6:00 p.m.

Organizers: Levi Van Sant (Georgia Southern University)

Trip Capacity: 27

Cost/person: \$54.00

*Co-Sponsored by: AAG Specialty Groups, Geography of Food and Agriculture and Rural Geography*

This trip will explore some of Boston's local food systems, focusing on the relationship between food production and the geography of regional development. We will visit several farms in the Boston area, starting in the city center and then moving west towards the more rural areas around Lincoln. The trip will close with a visit to Walden Pond.

### **F2\_6 Geographies of Beer, Part II: Boston Beer Geographies**

Thursday, April 6, 2:00 p.m. – 7:00 p.m.

Organizers: Toby Applegate (University of Massachusetts-Amherst) & Jessica Breen (University of Kentucky)

Leader: Colleen Hiner (Texas State University-San Marcos)

Trip Capacity: 52

Cost/person: \$97.00

*Sponsored by: AAG Specialty Group, Wine, Beer, and Spirits*

This field trip continues from last year's beer tour of San Francisco and environs to engage the robust craft and independent brewing geography of Boston. We will visit one big player in Boston's beer geography: Boston Beer Company producer of the iconic Samuel Adams Boston Lager, then we will change scales and visit smaller independent breweries in Boston that are carving out space and names for themselves in New England's competitive craft brewing environment.

### **F2\_7 Tour of Leventhal Map Center at the Boston Public Library**

Thursday, April 6, 3:30 p.m. – 5:00 p.m.

Organizer: Ronald Grim (Leventhal Map Center at Boston Public Library)

Trip Capacity: 20

Cost/person: \$5.00

Learn about the physical and online cartographic resources available at the Boston Public Library. This tour will introduce participants to three aspects of the LMC collection. The curator will provide an overview of the collection highlighting a selection of historic treasures. The assistant curator will lead a walk-through of the current gallery exhibition, "Regions and Seasons: Mapping Climate through History," and the reference and geo-spatial librarian will demonstrate LMC online resources including a new digital collection incorporating images of historic maps from ten partner institutions focusing primarily on the Revolutionary War era.

## FIELD TRIPS

*Field trips will depart from Dalton Street Entrance, in the main lobby of the Sheraton Hotel.*

### **F2\_3 1938 Gropius House, A New England Historic Home**

Thursday, April 6, 3:30 p.m. – 4:30 p.m.

Organizer: Wendy Hubbard (Historic New England)

Leader: Eric Huntley (University of Kentucky)

Trip Capacity: 27

Cost/person: \$44.00

Walter Gropius, founder of the German design school known as the Bauhaus and one of the most influential architects of the twentieth century, designed Gropius House as his family home. Modest in scale, the house was revolutionary in impact. It combined the traditional elements of New England architecture—wood, brick, and fieldstone—with innovative materials rarely used in domestic settings at that time, including glass block, acoustical plaster, chrome banisters, and the latest technology in fixtures. In keeping with Bauhaus philosophy, every aspect of the house and its surrounding landscape was planned for maximum efficiency and simplicity of design.

### **F2\_11 Tour and History of Harvard Geography and GIS**

Thursday, April 6, 3:30 p.m. – 6:00 p.m.

Organizer: Matthew Wilson (University of Kentucky and the Harvard Center for Geographic Analysis)

Trip Capacity: 14

Cost/person: \$5.00

This hour-long walking tour on Harvard campus will discuss the history of the geography program at Harvard (closed in 1948), the role of the Harvard Lab for Computer Graphics in the emergence of GIS, as well as visit the Harvard Map Collection and the Harvard Center for Geographic Analysis. We will end the tour with a pint from the Queens Head Pub (for those 21 and older), in the basement of Memorial Hall -- the former location of the Lab for Computer Graphics. *Please note that attendees will need to meet the organizer at the Harvard Square T Station at 3:30 p.m. Organizer will send out instructions closer to the trip.*

## **FRIDAY, APRIL 7**

### **F3\_1 Plum Island Parker River National Wildlife Refuge and Halibut Point State Park: Coastal and Glacial Geomorphology of Boston's North Shore**

Friday, April 7, 9:00 a.m. – 5:00 p.m.

Organizers: Joan Welch (West Chester University) & Lealdon Langley (Wetlands and Waterways Program)

Trip Capacity: 2

Cost/person: \$82.00

Participants will visit Parker River National Wildlife Refuge, a coastal barrier island, salt marsh, and freshwater marsh system with diverse habitats critical for migratory waterfowl. The geomorphology of the refuge includes glacial as well as coastal influences with beaches, an undisturbed dune line, and drumlins. Parker River is an excellent birding site with over 350 species

recorded. As a counterpoint, participants will visit Halibut Point State Park, a rocky headland made of 440 million year-old granite that descends into tidal pools. Glacial striations mark the outcrops. Be prepared for walking on trails and weather. Water, snacks and binoculars recommended.

### **F3\_3 Tour of Leventhal Map Center at the Boston Public Library**

Friday, April 7, 10:00 a.m. – 11:30 a.m.

Organizer: Ronald Grim (Leventhal Map Center at Boston Public Library)

Trip Capacity: 20

Cost/person: \$5.00

Learn about the physical and online cartographic resources available at the Boston Public Library. This tour will introduce participants to three aspects of the LMC collection. The curator will provide an overview of the collection highlighting a selection of historic treasures. The assistant curator will lead a walk-through of the current gallery exhibition, "Regions and Seasons: Mapping Climate through History," and the reference and geo-spatial librarian will demonstrate LMC online resources including a new digital collection incorporating images of historic maps from ten partner institutions focusing primarily on the Revolutionary War era.

### **F3\_5 THE GAMBIA: The Origins of a Cartographic Space**

Friday, April 7, 1:00 p.m. – 4:00 p.m.

Organizers: Gerald Rizzo (The Afriterrra Cartographic Free Library) & Lovision Golob (The Afriterrra Cartographic Free Library)

Leader: Deborah Metzel (University of Massachusetts, Boston)

Trip Capacity: 20

Cost/person: \$36.00

*Sponsored by: The AFRITERRA Free Library*

The Afriterrra Free Library in Boston is holding a field trip to attend a rare map exhibit promoting the visualization of Africa as a space more than a name. The exhibit holds 10 original specimens as well as an expanded online study which allows multiple pan-and-zoom views depicting the original Gambia River of West Africa, covering a period of 400 years from 1513 to 1900. In this experience we offer the objectives of expanding the historical basis, as well as creating methods to better anticipate the lessons and plans that forge our future. Sequestered for centuries, these maps are opened here for examination in this first ever public assemblage.



## FIELD TRIPS

*Field trips will depart from Dalton Street Entrance, in the main lobby of the Sheraton Hotel.*

### **F3\_9 Walking Tour of the Retail Mix in the Historic Back Bay and Fenway-Kenmore Neighborhoods of Boston**

Friday, April 7, 1:30 p.m. – 4:00 p.m.

Organizers: Lawrence Joseph (West Marine) & Brett Lucas (City of Cheney)

Trip Capacity: 27

Cost/person: \$5.00

*Sponsored by: AAG Specialty Group, Business Geography*

Dr. Joseph and Mr. Lucas will guide a walking tour and discussion of the retail trends and history in the Back Bay and Fenway-Kenmore neighborhoods of Boston. The tour will start in historic Back Bay, including Newbury Street, which was part of the Boston Harbor until it was filled in during the mid-nineteenth century. The discussion will focus on the healthy mix between chain retailers and unique shops and why retail rents are at their highest ever. The tour will continue to the Fenway-Kenmore neighborhood to view the retail and restaurant growth around historic Fenway Park, home of the Boston Red Sox.

### **F3\_7 Portland Sea Dogs (Minor League Baseball)**

Friday, April 7, 3:00 p.m. – 10:00 p.m.

Organizer: Steven Ericson (University of Alabama)

Trip Capacity: 50

Cost/person: \$44.00

*Sponsored by: AAG Specialty Group, Recreation, Tourism & Sport*

Boston's sports landscape is clearly marked by Fenway Park, but the sports landscape in Portland, Maine, boasts a miniature replica of Fenway Park that hosts the Double-A Portland Sea Dogs (Red Sox affiliate). Hadlock Field features an homage to the club's Major League parent such as the "Maine Monster" in left field plus unique features like lighthouse in center field that rises when a home team player hits a home run. A trip to Hadlock Field allows people to experience the nuance of neolocalism that has become a linchpin of the Minor League Baseball experience. Cost of the field trip includes a game ticket.

### **F3\_8 Derwent Whittlesey's Queer Cambridge**

Friday, April 7, 5:00 p.m. – 7:30 p.m.

Organizers: Alison Mountz (Wilfrid Laurier University) & Keegan Williams (Wilfrid Laurier University)

Trip Capacity: 55

Cost/person: \$16.00

What happened to geography at Harvard University? Join us as we explore the history of Harvard's program through the life of its foremost human geographer: Dr. Derwent Whittlesey. We will visit geography's former spaces, supplementing the discipline's story with archival photographs and first-hand accounts. We will weave this history into sites of Derwent's Cambridge to understand how institutions, history, and politics shaped geography's fate locally and nationally. We will conclude our trip with an examination of spaces containing geography's debris. Through ghost stories, we will unravel what happened to geography while humanizing the memory of Dr. Whittlesey.

### **SATURDAY, APRIL 8**

#### **F4\_1 Thoreau's Geo-Concord: Walden Pond, Sleepy Hollow, Concord River**

Saturday, April 8, 9:30 a.m. – 2:30 p.m.

Organizer: Sarah Luria (College of the Holy Cross)

Leader: Robert Thorson (University of Connecticut)

Trip Capacity: 35

Cost/person: \$60.00

*Sponsored by: Thoreau Society, Concord*

Geologist Robert Thor (U. Connecticut) will guide us through three important geo-historic sites in Concord, MA: (1) The deep, clear, isolated, and radially symmetric western basin of Walden Pond that inspired Henry David Thoreau's *WALDEN, OR LIFE IN THE WOODS* (1854). (2) Sleepy Hollow Cemetery, which Thoreau surveyed and where he is buried (3) The Concord River whose flowage and use preoccupied Thoreau's "scientific sojourning" in later life. We will also cross Old North Bridge and visit the Emerson family's Old Manse. Professor Thor is author of two important Thoreau studies: *WALDEN'S SHORT* (Harvard UP 2014) and *THE BOATMAN* (Harvard UP, forthcoming).

#### **F4\_2 Salem Field Trip**

Saturday, April 8, 1:00 p.m. – 5:00 p.m.

Organizers: Steve Matchak (Salem State University) & Steve Young (Salem State University)

Trip Capacity: 55

Cost/person: \$21.00

*Sponsored by: Salem State Geography Department*

Geographers from Salem State invite meeting participants to join a field trip to Salem. The primary focus will be on Salem's maritime history with a visit to the Salem National Historic Site, which features a Customs House dating from 1819, a reproduction of an East Indiaman sailing vessel, and the home of America's first millionaire. In addition, the tour will drive and walk through Salem providing perspectives on the city's development, Nathaniel Hawthorne, and the infamous witchcraft trials of 1692. Salem is an historic city with many worthwhile sites and has become a lively city with many entertainment opportunities.



## FIELD TRIPS

*Field trips will depart from Dalton Street Entrance, in the main lobby of the Sheraton Hotel.*

### **F4\_3 Landscapes of Infinite Jest: A Psychogeographical Tour of David Foster Wallace's Boston**

Saturday, April 8, 11:00 a.m. – 3:00 p.m.

Organizers: Hannah Fair (University College London) & Rachel Bok (University of British Columbia)

Trip Capacity: 25

Cost/person: \$6.00

A psychogeographical wander around Boston, on foot and via public transport, navigating the literal and fictional locations featured in David Foster Wallace's work. Tracing some of the key events of the epic novel *Infinite Jest*, this tour will traverse contemporary Boston, the city as it stood in the mid-90s and Wallace's imagined alternative Experialist present. *Please note that attendees should purchase their MBTA tickets in advance.*

### **SUNDAY, APRIL 9**

#### **F5\_1 Boston Gas Leaks Safari**

Sunday, April 9, 10:00 a.m. – 12:00 p.m.

Organizers: Sucharita Gopal (Boston University) & Nathan Phillips (Boston University)

Leader: Robert Ackley (Gas Safety, Inc.)

Trip Capacity: 10

Cost/person: \$5.00

Methane, an odorless, colorless gas, is a key source of heat in cities, but methane leaks from aging urban natural gas pipelines kill street trees, pose explosion risks, and warm the climate. Methane's invisibility and its underground delivery obscure its environmental, safety and climate impacts. This field trip will literally and figuratively "put methane on the map", through a geospatial exploration and sensing "safari" that detects, maps and diagnoses point source methane leaks on the streets of Boston and their integrated atmospheric buildup on a Boston high rise rooftop.

#### **F5\_2 Boston Gas Leaks Safari**

Sunday, April 9, 12:00 p.m. – 2:00 p.m.

Organizers: Sucharita Gopal (Boston University) & Nathan Phillips (Boston University)

Leader: Robert Ackley (Gas Safety, Inc.)

Trip Capacity: 10

Cost/person: \$5.00

Methane, an odorless, colorless gas, is a key source of heat in cities, but methane leaks from aging urban natural gas pipelines kill street trees, pose explosion risks, and warm the climate. Methane's invisibility and its underground delivery obscure its environmental, safety and climate impacts. This field trip will literally and figuratively "put methane on the map", through a geospatial exploration and sensing "safari" that detects, maps and diagnoses point source methane leaks on the streets of Boston and their integrated atmospheric buildup on a Boston high rise rooftop.

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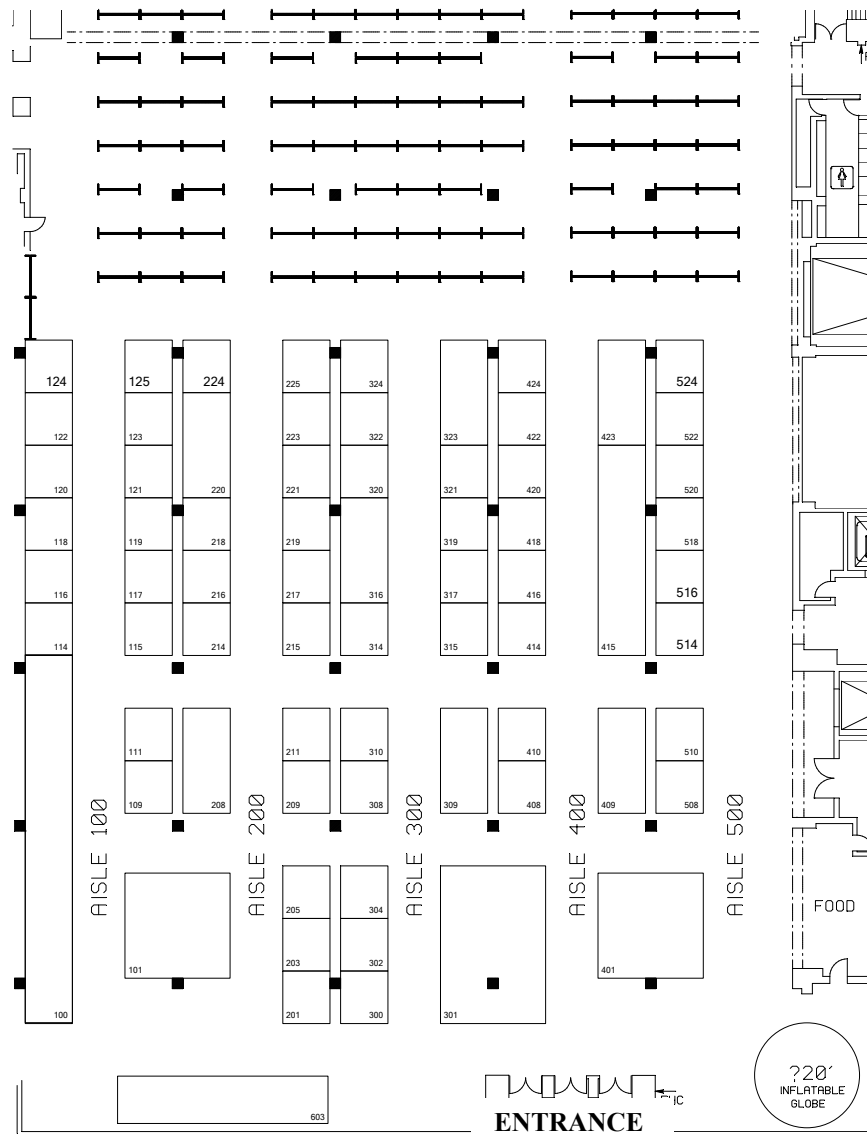


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# EXHIBIT HALL FLOOR PLAN

The Exhibit Hall is located in Exhibit Hall C, Second Level, Hynes Convention Center.



## EXHIBIT HALL HOURS

Thursday, April 6

9:00 a.m. – 5:00 p.m.

9:30 a.m. – 11:30 a.m.

1:00 p.m. – 3:00 p.m.

Exhibit Hall Open

Coffee Break in the Hall

Coffee Break in the Hall

Friday, April 7

9:00 a.m. – 5:00 p.m.

9:30 a.m. – 11:30 a.m.

3:00 p.m. – 5:00 p.m.

Exhibit Hall Open

Coffee Break in the Hall

Exhibit Hall Reception:

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Saturday, April 8

9:00 a.m. – 1:30 p.m.

9:30 a.m. – 11:30 a.m.

Exhibit Hall Open

Coffee Break in the Hall

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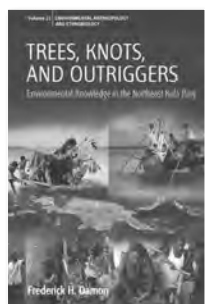
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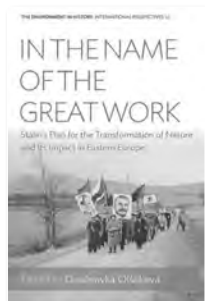
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PHOTOS: NEW ORLEANS CONVENTION & VISITORS BUREAU

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AAG's sessions are all numbered with a 4-digit code. The numbers represent the following information:

1st digit = day (see below)

2nd digit = time period (see below)

Last two digits = room code (see next page)

Key to days (**1st digit**) is as follows:

Tuesday = 1

Wednesday = 2

Thursday = 3

Friday = 4

Saturday = 5

Below are the keys to time slots (**2nd digit**):

### Wednesday, April 5

<i>Session #</i>	<i>Time</i>
11xx	8:00 a.m. - 9:40 a.m.
12xx	10:00 a.m. - 11:40 a.m.
13xx	11:50 a.m. - 12:30 p.m.
14xx	12:40 p.m. - 2:20 p.m.
15xx	2:40 p.m. - 4:20 p.m.
16xx	4:40 p.m. - 6:20 p.m.
17xx	6:30 p.m. - 8:00 p.m.
<i>(AAG Presidential Plenary)</i>	

### Thursday, April 6

<i>Session #</i>	<i>Time</i>
21xx	8:00 a.m. - 9:40 a.m.
22xx	10:00 a.m. - 11:40 a.m.
23xx	11:50 a.m. - 1:10 p.m.
24xx	1:20 p.m. - 3:00 p.m.
25xx	3:20 p.m. - 5:00 p.m.
26xx	5:20 p.m. - 7:00 p.m.
27xx	7:10 p.m. - 8:10 p.m.
28xx	8:10 p.m. - 9:10 p.m.

### Friday, April 7

<i>Session #</i>	<i>Time</i>
31xx	8:00 a.m. - 9:40 a.m.
32xx	10:00 a.m. - 11:40 a.m.
33xx	11:50 a.m. - 1:10 p.m.
34xx	1:20 p.m. - 3:00 p.m.
35xx	3:20 p.m. - 5:00 p.m.
36xx	5:20 p.m. - 7:00 p.m.
37xx	7:10 p.m. - 8:10 p.m.
38xx	8:10 p.m. - 9:10 p.m.

### Saturday, April 8

<i>Session #</i>	<i>Time</i>
41xx	8:00 a.m. - 9:40 a.m.
42xx	10:00 a.m. - 11:40 a.m.
43xx	11:50 a.m. - 1:10 p.m.
44xx	1:20 p.m. - 3:00 p.m.
45xx	3:20 p.m. - 5:00 p.m.
46xx	5:20 p.m. - 7:00 p.m.
47xx	7:10 p.m. - 8:10 p.m.
48xx	8:10 p.m. - 9:10 p.m.

### Sunday, April 9

<i>Session #</i>	<i>Time</i>
51xx	8:00 a.m. - 9:40 a.m.
52xx	10:00 a.m. - 11:40 a.m.
53xx	11:50 p.m. - 2:00 p.m.
<i>(AAG Awards Luncheon)</i>	
54xx	2:00 p.m. - 3:40 p.m.
55xx	4:00 p.m. - 5:40 p.m.

Therefore, session 1402 would be held on Wednesday, April 5 (1402) from 12:40 p.m. - 2:20 p.m. (1402) in Meeting Room 102 of the Hynes (1402).

**last two digits** = Room code (See next page for list of room code numbers)

#### **FACILITY MAPS:**

Hynes - pages 12-14

Sheraton - page 16-17

Marriott - page 18-20

# KEY TO ROOMS

Room Code (last two digits of session number):

## Session Room

Code#	Room Name	Facility	Floor/Level
1	Meeting Room 101	Hynes	Plaza Level
2	Meeting Room 102	Hynes	Plaza Level
3	Meeting Room 103	Hynes	Plaza Level
4	Meeting Room 104	Hynes	Plaza Level
5	Meeting Room 105	Hynes	Plaza Level
6	Meeting Room 107	Hynes	Plaza Level
7	Meeting Room 108	Hynes	Plaza Level
8	Meeting Room 109	Hynes	Plaza Level
9	Meeting Room 110	Hynes	Plaza Level
10	Meeting Room 111	Hynes	Plaza Level
11	Meeting Room 200	Hynes	Second Level
12	Meeting Room 201	Hynes	Second Level
13	Meeting Room 202	Hynes	Second Level
14	Meeting Room 203	Hynes	Second Level
15	Meeting Room 204	Hynes	Second Level
16	Meeting Room 205	Hynes	Second Level
17	Meeting Room 206	Hynes	Second Level
18	Meeting Room 209	Hynes	Second Level
19	Meeting Room 210	Hynes	Second Level
20	Hynes Hall C	Hynes	Second Level
21	Meeting Room 301	Hynes	Third Level
22	Meeting Room 302	Hynes	Third Level
23	Meeting Room 303	Hynes	Third Level
24	Meeting Room 304	Hynes	Third Level
25	Meeting Room 305	Hynes	Third Level
26	Meeting Room 306	Hynes	Third Level
27	Meeting Room 307	Hynes	Third Level
28	Meeting Room 308	Hynes	Third Level
29	Meeting Room 309	Hynes	Third Level
30	Meeting Room 310	Hynes	Third Level
31	Meeting Room 311	Hynes	Third Level
32	Meeting Room 312	Hynes	Third Level
33	Meeting Room 313	Hynes	Third Level
34	Suite 300	Hynes	Third Level
35	Hynes Ballroom A	Hynes	Third Level
36	Hynes Ballroom B	Hynes	Third Level
37	Hynes Ballroom C	Hynes	Third Level
38	Independence East	Sheraton	Second Floor
39	Independence West	Sheraton	Second Floor
40	Liberty B	Sheraton	Second Floor
41	Liberty C	Sheraton	Second Floor
42	Back Bay Blrm A	Sheraton	Second Floor
43	Back Bay Blrm B	Sheraton	Second Floor
44	Constitution A	Sheraton	Second Floor
45	Constitution B	Sheraton	Second Floor
46	Beacon A	Sheraton	Third Floor
47	Beacon B	Sheraton	Third Floor
48	Beacon D	Sheraton	Third Floor
49	Beacon E	Sheraton	Third Floor
50	Beacon F	Sheraton	Third Floor
51	Exeter A	Sheraton	Third Floor

## Session Room

Code#	Room Name	Facility	Floor/Level
52	Exeter B	Sheraton	Third Floor
53	Dalton A	Sheraton	Third Floor
54	Dalton B	Sheraton	Third Floor
55	Hampton A	Sheraton	Third Floor
56	Hampton B	Sheraton	Third Floor
57	Gardner A	Sheraton	Third Floor
58	Gardner B	Sheraton	Third Floor
59	Fairfax A	Sheraton	Third Floor
60	Fairfax B	Sheraton	Third Floor
61	Jefferson	Sheraton	Third Floor
62	Kent	Sheraton	Third Floor
63	Commonwealth	Sheraton	Third Floor
64	Boylston	Marriott	First Floor
65	Tremont	Marriott	First Floor
66	Columbus I	Marriott	First Floor
67	Columbus II	Marriott	First Floor
68	St. Botolph	Marriott	Second Floor
69	Regis	Marriott	Third Floor
70	Northeastern	Marriott	Third Floor
71	Brandeis	Marriott	Third Floor
72	MIT	Marriott	Third Floor
73	Boston University	Marriott	Third Floor
74	Simmons	Marriott	Third Floor
75	Suffolk	Marriott	Third Floor
76	Wellesley	Marriott	Third Floor
77	Harvard	Marriott	Third Floor
78	Tufts	Marriott	Third Floor
79	Arlington	Marriott	Third Floor
80	Berkeley	Marriott	Third Floor
81	Clarendon	Marriott	Third Floor
82	Dartmouth	Marriott	Third Floor
83	Exeter	Marriott	Third Floor
84	Fairfield	Marriott	Third Floor
85	Salon H	Marriott	Fourth Floor
86	Salon I	Marriott	Fourth Floor
87	Salon J	Marriott	Fourth Floor
88	Salon K	Marriott	Fourth Floor
89	Vineyard	Marriott	Fourth Floor
90	Yarmouth	Marriott	Fourth Floor
91	Nantucket	Marriott	Fourth Floor
92	Provincetown	Marriott	Fourth Floor
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*For special events, please see the Special Events & Meetings Summary on pages 60-66.*

*For the Key to Session Numbers & Room Numbers, please see pages 96-97.*

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# WEDNESDAY April 5 • 8:00 AM - 9:40 AM • 1100

## 1101. Dynamics of Coupled Natural and Human Systems Panels: Models, Feedback, Analyses, and Outcomes (I) (Sponsored by Human Dimensions of Global Change Specialty Group)

Room: Room 101, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Chuan Liao, University of Michigan; Arun Agrawal, University of Michigan

CHAIR(S): Arun Agrawal, University of Michigan

8:00 Brian E. Robinson\*, McGill University; Arianne Cease, Arizona State University; James Elser, Arizona State University; Eli Fenichel, Yale University; Joleen Hadrich, Colorado State University; Jon Harrison, Arizona State University, *Locust outbreaks, livestock markets, and livelihood choices*.

8:20 Erica A.H. Smithwick, Ph.D.\*, The Pennsylvania State University; Christopher Caldwell, Ph.D., College of Menominee Nation, Sustainability Development Institute; Alexander Klippel, Ph.D., The Pennsylvania State University; Robert M. Scheller, Ph.D., Portland State University; Nancy Tuana, Ph.D., The Pennsylvania State University; Rebecca Bird, Ph.D., The Pennsylvania State University; Klaus Keller, Ph.D., The Pennsylvania State University; Melissa Lucash, Ph.D., Portland State University; Robert Nicholas, Ph.D., The Pennsylvania State University, *Visualizing Forest Futures Under Climate Uncertainty by Integrating Multiple Ways of Knowing*.

8:40 Julie A Silva\*, University of Maryland, College Park; Fernando Sedano, University of Maryland, College Park, *Human Drivers and Ecological Consequences of the Charcoal Trade in Mozambique's Miombo Woodlands*.

9:00 Emi Uchida\*, University of Rhode Island; Mwita M Mangora, Ph.D., University of Dar es Salaam; Victor H Rivera-Monroy, Ph.D., Louisiana State University; Edward Castaneda, Ph.D., Florida International University; Arthur Gold, Ph.D., University of Rhode Island; Todd Guilfoos, University of Rhode Island; Razack Lokina, Ph.D., University of Dar es Salaam; Catherine McNally, Ph.D., University of Rhode Island; Stephen Midway, Louisiana State University; Michael Polito, Ph.D., Louisiana State University; Robert V Rohli, Ph.D., Louisiana State University; Elin Torrell, Ph.D., University of Rhode Island; Hirotsugu Uchida, Ph.D., University of Rhode Island; Lindsey West, Ph.D., Sea Sense; Mattana Wongsirikajorn, University of Rhode Island, *Mangrove ecosystem services and poverty traps*.

Discussant(s): Arun Agrawal, University of Michigan

## 1102. Affective Architectures Part I: more-than-representational approaches to heritage

Room: Room 102, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Jacquelyn Micieli-Voutsinas, Wilfrid Laurier University

CHAIR(S): Jacquelyn Micieli-Voutsinas, Wilfrid Laurier University

8:00 Amy E. Potter\*, Armstrong State University; Eddie Arold Modlin, Norfolk State University, *Searching for Slavery Amongst the Plantation Edutainment Complex*.

8:15 Emma Waterton, Associate Professor\*, Western Sydney University; Jason Dittmer, Professor, University College London, *Affecting the Body: Cultures of Militarism at the Australian War Memorial*.

8:30 Jing Xu\*, York University, *An Affective Museum, a Modern Intruder? --the Paradoxical Impacts of Unit 731 Museum*.

8:45 Angela Person, PhD\*, The University of Oklahoma, *Daring you to go on the ride again: Intersections of Hirshhorn and Individual Identities*.

9:00 Molly A Breitbart, Undergrad\*, Barnard College, *Let's Talk About Sex, Baby: The Commodification of New York City's Museum of Sex*.

Discussant(s): Danielle Drozdowski, UNSW

## 1103. Addressing the Diversification and Stratification of Migration in the 21st Century

Room: Room 103, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Sarah Kunz, University College London; Chia-Yuan Huang, University College London

CHAIR(S): Sarah Kunz, University College London

Introducer: Sarah Kunz

8:05 Jean-Baptiste Fretigny\*, Université de Cergy-Pontoise, *Migrants in the air: mobility regimes and practices between hierarchies and diversity*.

8:25 Chia-Yuan Huang, PhD Candidate\*, University College London, *Talent Exodus? Tracing Global Mobilities of Highly Skilled Migration from Taiwan*.

8:45 Thomas Wimark\*, Stockholm University, *Waiting for sexual liberation - queer asylum seekers in the immigration process*.

9:05 Sunyoung Choi\*, Department of Geography, Seoul National University, Seoul, South Korea, *Transnational Networks and Everyday Spaces of Short-term Migrants of High-income Professions in Seoul*.

Discussant(s): Elaine Lynn-Ee Ho, National University of Singapore

## 1104. [Re]Evaluating How we Value Transportation

Room: Room 104, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Carol Atkinson-Palombo, University of Connecticut

CHAIR(S): Carol Atkinson-Palombo, University of Connecticut

8:00 Awanti Acharya, PhD candidate\*, University of Connecticut; Dr. Carol Atkinson-Palombo, Department of Geography, University of Connecticut; Dr. Norman Garrick, Department of Civil & Environmental Engineering, University of Connecticut, *Built Environment and its relationship to traffic safety*.

8:20 Calvin G Thigpen\*, UC Davis; Jamey Volker, UC Davis, *Surplus residential parking and options for repurposing street space in Davis, CA*.

8:40 Moira Conway, Ph.D.\*, Kutztown University; Alison Conway, Ph.D., City College of New York, *Transportation Conflicts in Mixed-Use Industrial-Residential Areas*.

9:00 Kristin Ann Floberg\*, University of Connecticut; Norman W. Garrick, PhD, University of Connecticut; Carol Atkinson-Palombo, PhD, University of Connecticut, *An Assessment of How Land is Used in Cities at Different Levels of Automobility*.

Discussant(s): Carol Atkinson-Palombo, University of Connecticut

## 1105. Health and human rights (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme)

Room: Room 105, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Mainstreaming Human Rights

CHAIR(S): SARASWATI KERKETTA, Nistarini College

8:00 Rhoda Mundi, Ph.D.\*, University of Abuja, Nigeria, *Women's Empowerment and Demographic and Health Outcomes: Evidence From 2013 Nigeria Demographic and Health Survey*.

8:20 SUMAN SINGH, PhD\*, Banaras Hindu University, Varanasi, India, *The Maternity Benefit (Amendment) Bill, 2016: Is it Half full or Half Empty*.

8:40 Calvin P Tribby\*, Columbia University Medical Center, *Infusing Vision Zero Policies with the Human Rights Perspective to Address the Traffic-related Mortality and Morbidity Epidemic*.

9:00 Meghan Smith\*, Salem State University, *Access to Language Services in Substance Abuse Treatment Facilities in the Commonwealth of Massachusetts*.

9:20 SARASWATI KERKETTA\*, Nistarini College, *Right of Women to Maternal Health Care*.



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## 1106. Crime, brutality, and violence (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme)

Room: Room 107, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Mainstreaming Human Rights

CHAIR(S): Patricia De La Mata

8:00 Dylan Beatty\*, University of Hawaii - Manoa, *'Pusher na Ako': First-hand Account of Manila following Duterte's Election.*

8:20 Morten Koch Andersen\*, Danish Institute Against Torture, *Filtering Information: Human Rights Documentation and that Which is Known.*

8:40 Shaul Cohen\*, University of Oregon, *Transcending Space, Embracing Time: Geographic Imagination From Within a Prison.*

9:00 Scott Warren\*, Arizona State University, *Human Rights, Field Work, and ASU's Desert Aid Class on the Arizona-Mexico Border.*

9:20 Patricia De La Mata\*, California State University San Marcos, *Worldwide Trafficking.*

## 1107. A Changing Rural Asia

Room: Room 108, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Barney Warf, University of Kansas

8:00 Xiaoyu Zheng\*, Zhigang Wu, Xiaoqiang Qiao, Yansui Liu, *Rural Households' Perception Of Rural Residential Land Consolidation And Their Satisfaction With The Processes And Results ??A Case Study Of Yuanqiao And Baihui Rural Communities Of Dezhou Country, Shandong Province.*

8:20 Hualou Long\*, Institute of Geographic Sciences and Natural Resources Research, CAS, *Rural restructuring: Theory, approach and prospect.*

8:40 Jonathan Rigg\*, National University Of Singapore, *Reproducing the Asian smallholder: Age and Generation on Thai farms.*

9:00 Oyut Amarjargal\*, Clark University, *Spatial-Econometric Relationship between Urbanization and Economic Development in Mongolia.*

9:20 Barney Warf\*, University of Kansas, *Combating Rural Poverty in India with Telecenters.*

## 1108. Canada: Its Changing Geography

Room: Room 109, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Godwin Arku, The University of Western Ontario

8:00 Sylvanie Godillon\*, INRS - UCS; Marie-Soleil Cloutier, INRS - UCS, *Geographical inequalities of pedestrian road accidents: a spatial cluster analysis in Montreal.*

8:20 Kathrine E. Richardson\*, San Jose State University, *Highly Skilled Professional Labor and the Trans-Pacific Partnership: Is the Deal the Best Next Step beyond the NAFTA for Canada and the United States?.*

8:40 Godwin Arku\*, The University of Western Ontario; Evan Cleave, The University of Western Ontario, London Ontario, Canada; Merlin Chatwin, The University of Western Ontario, London Ontario, Canada; Emmanuel Kyeremeh, The University of Western Ontario, London, Ontario, Canada, *Turning the tide? The Adoption of A Written Plan in Economic Development Process.*

## 1109. Affective Borderscapes: The Multiple Senses of State, Law and Technology at the Border.

Room: Room 110, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Ioanna Tsoni, Malmö University

CHAIR(S): Ioanna Tsoni, Malmö University

Introducer: Ioanna Tsoni

8:15 Joshua Friedman\*, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ), *Migrant and Community Interactions Along the Ethiopian-Sudanese Border.*

8:30 Bree Akesson, PhD\*, Wilfrid Laurier University, *Displaced*

*Syrian children and families negotiating (in)visible borders in Lebanon.*

8:45 Ariel Otruba\*, Rutgers University, *Performing Precarity: Embodied Georgian Victimhood in the "Public Relations Zone".*

9:00 Evie Papada\*, Loughborough University, *The spatial organization of the emergency response in Lesbos.*

Discussant(s): Ioanna Tsoni, Malmö University

## 1110. Disturbance, Disturbance Interactions, and Climate as Drivers of Vegetation Change I (Sponsored by Biogeography Specialty Group)

Room: Room 111, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Alan H. Taylor, Pennsylvania State University; Dominik Kulakowski, Clark University

CHAIR(S): Alan H. Taylor, Pennsylvania State University

8:00 Alan H. Taylor\*, Pennsylvania State University; Catherine Lauvaux, Penn State University; Martin Ritchie, USDA Forest Service, Pacific Southwest Station, *The influence of topography, weather, fuels, and management on fire severity in overlapping wildfires in the Sierra Nevada.*

8:20 Dominik Kulakowski\*, Clark University; Rupert Seidl, Institute of Silviculture, Department of Forest- and Soil Sciences, University of Natural Resources and Life Sciences (BOKU), Vienna, Austria; Jan Holeksa, Adam Mickiewicz University, Faculty of Biology, Department of Plant Ecology and Environment Protection, Umultowska 89, 61-614 Poznan, Poland; Timo Kuuluvainen, Department of Forest Sciences, University of Helsinki, Helsinki, Finland; Thomas A. Nagel, Department of Forestry and Renewable Forest Resources, University of Ljubljana, Slovenia; Momchil Panayotov, Dendrology Department, University of Forestry, 1797 Sofia, Bulgaria; Miroslav Svoboda, Faculty of Forestry and Wood Sciences, Czech University of Life Sciences, Prague, Czech Republic; Simon Thorn, Field Station Fabrikschleichach, Biocenter, University of Würzburg, Glashüttenstraße 5, 96181 Rauhenenbrach, Germany; Giorgio Vacchiano, Università degli Studi di Torino, DISAFA, Largo Braccini 2, 10095 Grugliasco (TO), Italy; Cathy Whitlock, Montana Institute on Ecosystems, Montana State University, Bozeman, MT, USA; Peter Bebi, WSL Institute for Snow and Avalanche Research SLF, Davos, Switzerland, *Are European mountain forests wilder than we have acknowledged?.*

8:40 Jamie L. Peeler\*, Pennsylvania State University; Erica A.H. Smithwick, Pennsylvania State University, *Predicting spread of cheatgrass (Bromus tectorum) on a landscape scale in Shoshone National Forest, WY.*

9:00 Natalie C. Pawlikowski\*, Department of Geography, Earth and Environmental Systems Institute, The Pennsylvania State University, University Park, PA 16802, USA; Alan H. Taylor, Professor, Department of Geography, Earth and Environmental Systems Institute, The Pennsylvania State University, University Park, PA 16802, USA; Michelle Coppelletta, US Department of Agriculture, Forest Service, Sierra Cascade Province Ecology Program, Quincy, California 95971, USA; Eric E. Knapp, US Department of Agriculture, Forest Service, Pacific Southwest Research Station, 3644 Avtech Parkway, Redding, CA 96002, USA, *Forest Change Following Restorative Fires in an Old-Growth Ponderosa Pine Forest, Southern Cascades, CA.*

9:20 Nathan S. Gill\*, USGS Pacific Island Ecosystems Research Center, *Post-fire conditions conducive to increased aspen dominance through seedling establishment may facilitate forest persistence.*

## 1112. Aging and Older Adults

Room: Room 201, Hynes, Second Level (Paper Session)

ORGANIZER(S): Eric Boschmann, University of Denver

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CHAIR(S): Eric Boschmann, University of Denver

**8:00** Eric Boschmann\*, University of Denver, *Mobility clusters among older adults: Preliminary findings from a survey study.***8:20** Isabel Wiebe\*, INRS Urbanisation Culture Societe; Anne-Marie Séguin, INRS Urbanisation Culture Societe; Philippe Apparicio, INRS Urbanisation Culture Societe, *Older adult's mobility practices, experiences and strategies in urban spaces.***8:40** Randal Richardson\*, Newcastle University, *European Regions and the Grand Challenges: the case of Active Healthy Ageing in North East England.***9:00** Anne-Marie Seguin\*, INRS Urbanisation Culture Société; Philippe Apparicio, INRS Urbanisation Culture Société; Jérémy Gelb, INRS Urbanisation Culture Société, *Does park design promote a generational divide in Montreal?***9:20** Changwoo Jeon\*, Department of Geography Education, Seoul National University, *Exploring the Spatial Distribution of the Low-Income Single Elderly: A Case Study of Seoul, Korea.***1113. Alternative Transportation Issues***Room:* Room 202, Hynes, Second Level (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Lorenzo Varone, University of Connecticut

**8:00** Jingwei Sun, Jiangsu Institute of Urban Planning and Design, *HSR-led gentrification in the inter-city scale.***8:20** YU ZHANG\*, Beijing Normal University; XUEMIN LIU, Beijing Normal University, *Willingness to pay for Promotion of New Energy Vehicles: A contingent valuation study in Beijing, China.***8:40** Tom Erik Julsrud\*, Norwegian Institute of Transport Economics; Eivind Farstad, Dr, Norwegian Institute of Transportation Research; Cyriac George, Ma, University of Oslo, *Moving from private to shared cars: a mobility biography approach.***9:00** Lorenzo Varone\*, University of Connecticut, *The State of Autonomous Bus Technology in their Current Testing Environments.***1114. Welcome to AAG (Sponsored by American Association of Geographers, AAG Careers and Professional Development Theme, Graduate Student Affinity Group)***Room:* Room 203, Hynes, Second Level (Panel Session)

ORGANIZER(S): Mia Renaud; Ana I. Sanchez-Rivera, University of Maryland-College Park

CHAIR(S): Ana I. Sanchez-Rivera, University of Maryland-College Park

Discussant(s): Matthew Cook, Eastern Michigan University

Panelists: Joseph J. Kerski, Esri; Stephanie Velednitsky, University of Wisconsin - Madison; Zoe Pearson, University of Wyoming; Adrienne Katherine Tucker, Pennsylvania State University

**1115. Collaborations in the Field and at Home: Considering Multiple Actors in the Production of Knowledge. (Sponsored by Qualitative Research Specialty Group)***Room:* Room 204, Hynes, Second Level (Panel Session)

ORGANIZER(S): Kaitlin Fertaly, University of Colorado at Boulder; Jennifer Fluri, University of Colorado, Boulder

CHAIR(S): Kaitlin Fertaly, University of Colorado at Boulder

Panelists: Geraldine J. Pratt, University Of British Columbia; Caitlin Ryan, University of Colorado At Boulder; Sara H. Smith, University of North Carolina; Emily Billo, Goucher College; Kaitlin Fertaly, University of Colorado at Boulder

**1116. Applications in GIS***Room:* Room 205, Hynes, Second Level (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Tess Rivenbark

**8:00** Sharon Lynn Spradling\*, George Mason University, *Spatial Analysis of West Nile Virus Detected in Minnesota Blood Donors.***8:20** Ashley Hebert\*, Salem State University, *Tracking Antimicrobial Resistance with GIS.***8:40** Shuowei Zhang\*, *Estimating Local Fractal Dimensions using a Geographically Weighted Scheme.***9:00** Mingyue Lu\*, NUIST, *A Spatial Lattice Model Applied for Meteorological Analysis.***9:20** Tess Rivenbark\*, University of South Florida St. Petersburg; Barnali Dixon, Ph.D., University of South Florida St. Petersburg; Chris Stallings, Ph.D., University of South Florida, College of Marine Science, *Cost-effectiveness of integrated GIS and remote sensing seagrass landscape characterization methods.***1117. Information geographies: Social dimensions of Web 2.0 cartographies (Sponsored by Geographic Information Science and Systems Specialty Group, AAG Mapathon, Cartography Specialty Group, Communication Geography Specialty Group)***Room:* Room 206, Hynes, Second Level (Paper Session)

ORGANIZER(S): Sterling Quinn, Central Washington University; Christian Bittner

CHAIR(S): Sterling Quinn, Central Washington University

**8:00** Laura Garcia\*, University of Ottawa, *Are individuals responsible for their own privacy in the geoweb.***8:20** Stefano De Sabbata\*, University of Leicester; Pengyuan Liu, University of Leicester, *Exploring Information Geographies through Data Mining.***8:40** Lea Bauer\*, Leibniz Institute for Regional Geography, *Tactical mapivism. A methodical approach to understand counter-mapping practices as a political tactic..***9:00** Sterling Quinn\*, Central Washington University; Doran Tucker, The Pennsylvania State University, *Geopolitical conflict and elusive ground truth in online maps.*

Discussant(s): Luis Felipe Alvarez Leon, USC

**1121. Food, water, and change over time (Sponsored by Geographies of Bread and Water in the 21st Century Featured Theme)***Room:* Room 301, Hynes, Third Level (Paper Session)

ORGANIZER(S): Bread and Water

CHAIR(S): Renato De Oliveira Marques

**8:00** Lennart Olsson, Professor\*, Lund University; Anne Jerneck, Professor, Lund University, *The return of food riots?.***8:20** Ike Sari Astuti\*, University of Georgia; Deepak R Mishra, Dr, University of Georgia; Bagus Setiabudi Wiwoho, State University of Malang; Abdullah Arif Kurnia, State University of Malang, *A 20-Year Land Use Change, Drivers and Implications on Watershed Functions and Water Resources; A Case Study on Upper Brantas - Konto Watersheds, East Java, Indonesia.***8:40** Marcela Cely Santos\*, University of California - Santa Cruz, *Cross-Pollinating Agriculture, Ecosystems and Food: A Political Ecology of Farmers/Bee Relationships in Anolaima, Colombia.***9:00** Su Guandong\*, Hiroshima University, *Spatial Mapping and Analysis of Farmland Abandonment and Its Determinants at National and Regional Levels in Japan.***9:20** Renato De Oliveira Marques\*, Pontifical Catholic University of Minas Gerais; Sandro Laudaes, Pontifical Catholic University of Minas Gerais; Matheus Pereira Libório, Pontifical Catholic University of Minas Gerais; Marianna Petrovna Ekel, Support Fund for Research of Minas Gerais, *Spatial Analysis*

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*of Protected Areas in the Biomes and Regions of Brazil from 1930 to 2016.*

- 1122. New/Critical Approaches to Water and Food Security 1: Water Security (Sponsored by Cultural and Political Ecology Specialty Group, Human Dimensions of Global Change Specialty Group, Geographies of Bread and Water in the 21st Century Featured Theme, Water Resources Specialty Group)**

**Room:** Room 302, Hynes, Third Level (Paper Session)

ORGANIZER(S): Lily A. House-Peters, California State University, Long Beach; Laurel Bellante; Sarah Kelly-Richards, School of Geography and Development, University of Arizona

CHAIR(S): Lily A. House-Peters, California State University, Long Beach

**8:00** Lily A. House-Peters, Ph.D.\*, California State University, Long Beach, *Shifting Topographies of Water Security in the US-Mexico Borderlands: An Integrated Social-Ecological Systems Conceptual Framework.*

**8:20** Emilie L. Schur, MA Student, University of Arizona, *Collaboratively Assessing Household Water Security Across a Transboundary Aquifer: Beyond Technofixes and Water Quantity Indicators.*

**8:40** Georgina Drew\*, University of Adelaide, *India's Urban Rainwater Harvesting Trend: Problems, Possibilities, and Provocations.*

**9:00** Kerstin Damerau\*, ETH Zurich; Mario Herrero, CSIRO; Katharina Waha, CSIRO, *Re-assessing water use intensity of food production: Can global agriculture be both nutritionally and environmentally sustainable?.*

- 1123. Emerging Field Methods for Environmental Perceptions and Behavior (Sponsored by Environmental Perception and Behavioral Geography Specialty Group)**

**Room:** Room 303, Hynes, Third Level (Paper Session)

ORGANIZER(S): Bethany Cutts, North Carolina State University

CHAIR(S): Edward Millar, Ryerson University

**8:00** Thomas Höflechner, University of Graz; Friedrich M. Zimmermann\*, University of Graz, *"We are Labbing" - Guidelines and Design Principles for Urban Labs and Urban Experiments.*

**8:20** Chris Zegras\*, MIT; Daniel Palencia, MIT; Srivardhini Sures, SMART; Chaewon Ahn, MIT, *Flocktracker: Democratizing in-field data collection.*

**8:40** Kathleen M. Baker, Ph.D.\*, Western Michigan University; Lisa DeChano, Ph.D., Western Michigan University, *Learned Sensitivity to Landscape Features: GIS Training and Fieldwork Route Planning.*

**9:00** Edward Evan Millar, MA\*, Ryerson University; Emily Hazell\*, Ryerson University, *The Cottage Effect: Investigating Spatial Bias in Citizen Science Using a Comparative Analysis.*

- 1124. GIS and Housing**

**Room:** Room 304, Hynes, Third Level (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Khaled Alawadi

**8:00** Marta Blanco Castano\*, University of Denver, *Towards Building a Community Recommendation System for Denver Homebuyers: A Geodemographics and GIS Approach.*

**8:20** Yimin Chen\*, Guangdong Key Laboratory for Urbanization and Geo-simulation, School of Geography and Planning, Sun Yat-sen University; Xia Li, Guangdong Key Laboratory for Urbanization and Geo-simulation, School of Geography and Planning, Sun Yat-sen University; Xiaoping Liu, Guangdong Key Laboratory for Urbanization and Geo-simulation, School of Geography and Planning, Sun Yat-sen University, *Estimating housing rent by using online rental listings and ensemble learning.*

**8:40** Yutian Feng\*, SUNY - Albany, *Detecting Spatial*

*Heterogeneity in vacant houses by Geographically Weighted Regression.*

**9:00** Yuxi Zhao\*, *GIS and Sustainable Architectural Design: The Coreconstruction of Traditional Housing and Postearthquake Community Using Big Data.*

**9:20** Khaled Alawadi\*, Assistant Professor, Masdar Institute of Science and Technology, Engineering Systems and Management, *Transformation: Mapping Typological Change of Abu Dhabi's Neighborhoods.*

- 1125. The Climate-Land Use-Conflict Nexus in Africa 1 (Sponsored by Cultural and Political Ecology Specialty Group, Human Dimensions of Global Change Specialty Group, Africa Specialty Group)**

**Room:** Room 305, Hynes, Third Level (Paper Session)

ORGANIZER(S): Peter Michael Link, University of Hamburg;

Jürgen Scheffran, Institute of Geography, University of Hamburg

CHAIR(S): Jürgen Scheffran, Institute of Geography, University of Hamburg

**8:00** Peter Michael Link\*, University of Hamburg; Christian Alwardt, University of Hamburg; Jasmin S.A. Link, University of Hamburg; Jürgen Scheffran, University of Hamburg, *Hydrological changes in the Nile River Basin as a consequence of land use changes and their impacts on conflict or cooperation.*

**8:20** Yazidhi Bamutaze\*, Makerere University; Yazidhi Bamutaze, Department of Geography, Geo-Informatics and Climatic Sciences, Makerere University, *Hillslope Rainfall Induced Soil Erosion: Understanding Magnitude, Extremes and Uncertainties on Cultivated Fields in the Lake Victoria Basin.*

**8:40** Aondover A. Tarhule, Ph.D.\*, University of Oklahoma Department of Geography and Environmental Sustainability; Emad Hassa Abdou, Ph.D., College of Atmospheric and Geographic Sciences, University of Oklahoma, *A Revised Water Scarcity Index for Africa Using Grace Satellite Data.*

**9:00** Sil Lanckriet\*, Ghent University; Priya Rangan, School of Geography, The University of Melbourne, VIC 3010, Australia, *Cattle populations and pastoral migrations influence long-term landscape dynamics in the Ethiopian highlands.*

- 1126. Do Your Work: On Solidarity and Scholarship I (Sponsored by AAG Careers and Professional Development Theme)**

**Room:** Room 306, Hynes, Third Level (Panel Session)

ORGANIZER(S): Eric Goldfischer, University of Minnesota - Minneapolis

CHAIR(S): David K. Seitz, University of Toronto

Discussant(s): Kate Derickson, University of Minnesota

Panelists: Samuel Stein, CUNY Graduate Center; Lauren Hudson; Kelsey Brain, Pennsylvania State University; Caroline Keegan, University of Georgia

- 1128. Edgy Urbanity: The Ideological Built Environment**

**Room:** Room 308, Hynes, Third Level (Paper Session)

ORGANIZER(S): Zachary Nowak, Harvard University

CHAIR(S): Zachary Nowak, Harvard University

**8:00** Kerry Rohrmeier, PhD\*, San Jose State University; Paul F. Starrs, University of Nevada, Reno, *The Black Rock City Paradox: Replicating Originality in the Desert.*

**8:15** Zachary Nowak\*, Harvard University, *Where Trains Stop: Promiscuous Stations, Shadow Stations.*

**8:30** Scott Hinton\*, University of Nevada, Reno, *The Rise of Ranchurbia: Visualizing Landscapes of a New West.*

**8:45** Davey Hawkins\*, *Latter Day Utopians: New Vistas in Vermont.*

**9:00** Solange Isabel Munoz, PhD\*, University of Tennessee, *Urban precarity as routine forced mobility: Keeping poor urban migrants on the move.*

Discussant(s): Sarah Gelbard, McGill University



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**Room:** Room 309, Hynes, Third Level (Interactive Short Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Bin HE

**8:00** Yusi Liu\*, Capital Normal University, *Classification on full polarimetric SAR image based on target decomposition and texture information.*

**8:10** Jessica Fayne\*, University of South Carolina; Venkat Lakshmi, University of South Carolina; John M Simmons, AtlaSlab, *Decreased Freshwater Storage Leading to the Intrusion of Saltwater and Organic Compounds.*

**8:20** Zhibao Wang\*, Zhibao Wang, East China Normal Univ., No. 500, Dongchuan Rd., Shanghai 200241, China, *Gradient analysis of urban green space landscape pattern in Shanghai City based on QuickBird image.*

**8:30** Cui Yuan\*, Remote sensing and digital earth of chinese academy of sciences, *Yangtze River discharge estimated from Jason-2 radar altimetry.*

**8:40** Yuanyuan Wang\*, East China Normal University, *Correlation analysis of PM2.5 and MODIS AOD under the background of different cities in Yangtze River Delta Region of China.*

**8:50** Sepideh Dadashi, Graduate Student\*, University of Colorado Boulder, Department of Geography; Jennifer K Balch, Assistant Professor, University of Colorado Boulder, Department of Geography; Betheny A Bradley, Assistant Professor, University of Massachusetts Amherst, Department of Environmental Conservation, *A New Fire Perimeter Map Based on the MODIS Burn Area Product.*

**9:00** Shiyao Li\*, China University of Geosciences, *Landscape change detection in the Three Gorges Reservoir Area using multi-source remote sensing data.*

**9:10** Hongyu Du\*, East China Normal University; Yuanyuan Wang, East China Normal University; Yongli Cai, East China Normal University, *Research the Temporal Pattern of Urban Heat Island in Shanghai, China: Using Time-series Landsat Data.*

**9:20** Ke Yang\*, China University of Geosciences (Wuhan), *Analysis of evolution and driving force of Wuhan urban lakes from 1973 to 2016.*

**9:30** Bin HE\*, Haiyan Wang, Beijing Normal University, *A new indicator of ecosystem water use efficiency based on surface soil moisture retrieved from remote sensing.*

**1130. Economic Strategies and Social Implications**

**Room:** Room 310, Hynes, Third Level (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Jamaal Green

**8:00** Wei-Ming Katty Chen\*, University of Delaware, *Stealing fleece from a sheep: economic and social impacts for ratepayers in a deregulated electricity market.*

**8:20** Matthew G. McKay\*, University of Florida; Matthew G. McKay, MS, MBA, MA, University of Florida, *Changing Economic Geography of Southern New England's "Tobacco Valley" from 1965 to the Present: Local-Global Nexus.*

**8:40** Stephanie Lawrence, PhD\*, Independent, *The Discovery of All-Encompassing Six Dimensions while Testing Guttman Scale Validity and Reliability while Scaling Businesses as Urban Cultural Icons.*

**9:00** Andrea D. Moore\*, Northern Illinois University; Ryan James, PhD, Northern Illinois University; Xuwei Chen, PhD, Northern Illinois University, *Economic Base Changes in Counties Impacted by Military Base Closures.*

**9:20** Jamaal Green\*, Portland State University, *Wage Theft and Labor Market Segmentation.*

**1131. Transcendental spaces 1**

**Room:** Room 311, Hynes, Third Level (Paper Session)

ORGANIZER(S): Francesca Fois, Aberystwyth University

CHAIR(S): Francesca Fois, Aberystwyth University

**8:00** Eva Krah\*, University of Dundee, *Geographies of Street Spirituality: Exploring the place of spirituality in the lives of Street Children in Bukavu, The Democratic Republic of Congo.*

**8:20** Avril Maddrell\*, University of Reading, *Send a postcard, share a photo, count the clicks: an evaluation of varied mobile methods in pilgrimage research.*

**8:40** Helle Bach Riis, Ph.D. fellow\*, Roskilde University, *"We're all humans": Negotiating sameness and difference in intercultural dialogue meetings.*

**9:00** Chi-Mao Wang\*, Department of Sociology, Fu-Jen Catholic University, Taiwan (R.O.C.), *Assembling the sacred space in the Taiwanese countryside - endogenous development projects, temple festivals and unruly material objects.*

**9:20** Justin K.H. Tse, PhD\*, Northwestern University, *Protesting the Global Day of Prayer: contested charismatic geographies in Hong Kong.*

**1132. Drivers of Urbanization Today and Tomorrow - Part 1 theory**

**Room:** Room 312, Hynes, Third Level (Paper Session)

ORGANIZER(S): Panu Lehtovuori, Tampere University of Technology

CHAIR(S): Panu Lehtovuori, Tampere University of Technology

**8:00** Wei Xu\*, University of Lethbridge, *Chinese urbanism as a source of global urban theories.*

**8:20** Richard P. Greene\*, Capital Normal University, Beijing; Xuwei Chen, Northern Illinois University, *The Spatial-Temporal Dynamics of China's Changing Urban Hierarchy (2005-2015).*

**8:40** Jenni Partanen\*, Tampere University of Technology, *Outlining territory for Fenno-Scaling: possibilities and limitations to using rank size rules for the Finnish system of cities.*

**9:00** Danlin Yu\*, Montclair State University; Chuanglin Fang, Dr., Institute of Geographical Science and Natural Resources Research, Chinese Academy of Sciences, *Urban Agglomeration: An Evolving Concept of an Emerging Phenomenon.*

**9:20** Jaana Vanhatalo\*, Tampere University of Technology, *Urbanization rates - truly a mirror of reality?.*

**9:30** Panu Lehtovuori, Professor\*, Tampere University of Technology, *Revisiting Lefebvre's Notion of Total Urbanization.*

**1133. ICTs and development**

**Room:** Room 313, Hynes, Third Level (Paper Session)

ORGANIZER(S): Peter Dannenberg

CHAIR(S): Peter Dannenberg

**8:00** Peter Dannenberg\*, University of Cologne; Madlen Krone, University of Cologne, *Value Chain integration through information and communication technologies (ICT) in African small-scale agriculture.*

**8:20** Sheila N. Rao\*, Carleton University; Chris D Huggins, Dr, University of Ottawa; Rex Chapota, Farm Radio Trust, Malawi; Catherine Mloza-Banda, Farm Radio Trust, Malawi; Katherine Hampson, Farm Radio International, *The use of smartphones to mediate women's interactions with farmer radio programs: A comparison between initiatives in Malawi and Tanzania.*

**8:40** Joshua J. Ramisch\*, University of Ottawa, *"Is this a bad time to call?" Mobile phones, migrants, and the (mis) communication of climate information in Kenya.*

**9:00** ShihHsin Chen\*, National Chaio Tung University; Wei-Ting Lin, Institute of Management of Technology, National Chaio Tung University; Christian Omobhude, Institute of Management of Technology, National Chaio Tung

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University; DuenKai Chen, Tamkang University, *The Mutual Shaping of RD networks and Social-Technical Transitions in East Asian Digital Economies.*

- 9:20 Dorothea Johanna KLEINE, Dr\*, University of Sheffield, *On the value of critique and the need to (sometimes) go beyond it: Critical-constructive engagement with ICT and development policy and practice.*

## 1134. Smart Cities/Smart Grids (I): Contested Visions & the Politics of Urban Futures

Room: Suite 300, Hynes, Third Level (Paper Session)

ORGANIZER(S): Harriet Bulkeley, University of Durham; Jochen Monstadt, Darmstadt University of Technology; Rob Raven, Utrecht University

CHAIR(S): Harriet Bulkeley, University of Durham

Introducer: Jochen Monstadt

- 8:10 Darcy Parks, Linköping University; Harald Rohracher\*, Linköping University, *From sustainable to smart: re-branding or re-assembling urban energy infrastructure?*

8:30 Maarten Hajer\*, Utrecht University; Suzanne Potjer, Utrecht University, *Smart cities, global networks.*

8:50 Ankit Kumar\*, Eindhoven University of Technology, *What is a Smart Grid?*

9:10 Rolf Naber, Utrecht University; Rob Raven\*, Utrecht University; Matthijs Kouw, Rathenau Institute; Ton Dassen, PBL Netherlands Environmental Assessment Agency, *Scaling up sustainable energy innovations? Smart grids in the Netherlands.*

## 1138. Mapping Indigeneity (Sponsored by Cartography Specialty Group, Indigenous Peoples Specialty Group)

Room: Independence East, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): RDK Herman, National Museum of the American Indian

CHAIR(S): Genevieve Reid, McGill University

8:00 Andrew G. Allen\*, University of Kansas, *Allotting the Omaha Reservation: Patterns and Impacts 1884-1940.*

8:20 Sarah Elizabeth Nelson\*, University of Toronto, *Indigenous Rights and Urban Indigenous Health Services.*

8:40 Andrew F. Kaufman\*, University of Toronto, *Mobilities of the Expelled: Canadian homeless migrations.*

9:00 Genevieve Reid\*, McGill University; Renee Sieber, McGill University, *Predominance of Relationships in Indigenous Geospatial and Temporal Ontologies: The Case of Eastern Cree Concepts.*

## 1139. Spatiotemporal Study: Big Geospatial Data Challenges and Best Practices (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group, Spatial Analysis and Modeling Specialty Group)

Room: Independence West, Sheraton, Second Floor (Panel Session)

ORGANIZER(S): Manzhou Yu, George Mason University; Weihe Wendy Guan, Harvard University

CHAIR(S): May Yuan, University of Texas - Dallas

Panelists: Shaowen Wang, University of Illinois at Urbana-Champaign; E. Lynn Usery, United States Geological Survey; Tao Cheng, University College London; Seth E. Spielman, University of Colorado

## 1140. The Visible and Invisible in Rural Communities 1: Group Identity and Constructions of Place (Sponsored by Rural Geography Specialty Group)

Room: Liberty B, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Cheryl Morse, University of Vermont; Karin Patzke, Rensselaer Polytechnic Institute

CHAIR(S): Cheryl Morse, University of Vermont

8:00 Karin Patzke\*, Rensselaer Polytechnic Institute, *Suspicious Minds: Visuality and Performance in Environmental Conservation in Rural Spaces.*

8:20 Sophonie Bazile, M.A. \*, University Of Kentucky, *Race & Queer Rurality.*

8:40 Meredith Emilene Fowler\*, California State University - Long Beach, *The Renaissance of the Arctic: Saami Claiming Place in Modern Norway.*

9:00 Thomas Loder\*, Texas A&M University, *Dispatches from Kuwait on the Prairie: Oil and Gas Opinions in North Dakota Newspapers.*

9:20 Susannah R. McCandless, PhD\*, Global Diversity Foundation, *How else can they know our faces? Latino farmworker organizing and enforcement responses in rural Vermont.*

## 1141. Migration and Internationalization 1: International Student Mobility, Immigration Policies, and University Strategies (Sponsored by Population Specialty Group, Ethnic Geography Specialty Group)

Room: Liberty C, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Heike Alberts, University of Wisconsin-Oshkosh; Yvonne Riano, Institute of Geography, University of Neuchâtel, Switzerland; Micheline Van Riemsdijk, University of Tennessee

CHAIR(S): Heike Alberts, University of Wisconsin-Oshkosh

8:00 Yvonne Riano\*, Institute of Geography, University of Neuchâtel, Switzerland, *International Students as "Ideal Immigrants": How does the Transnational Mobility of International Students become Public Policy in Switzerland?*

8:20 Lucia Lo, Professor\*, York University, *Canadian Immigration Policies and International Student Mobility.*

8:40 Jasmine Trang Ha\*, University of Minnesota, *Globally Competitive, Locally Contradictory: Determinants of International Students Enrollments in the United States.*

9:00 Kevin MARY\*, University of Perpignan, *African "Ambassadors" for Canadian universities. Attracting and (socially) selecting African students for Canada. Examples from Mali..*

9:20 Maggi W.H. Leung\*, Utrecht University; Peter Schumacher, Utrecht University, *Zambian student mobility to China and back: knowledge acquisition and creation.*

## 1142. Economic Geography I - Relatedness, Evolution and Path-Creation; an Alternative Approach (Sponsored by Economic Geography Specialty Group)

Room: Back Bay Ballroom A, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Dieter Franz Kogler, University College Dublin; Jennifer Clark, Georgia Institute of Technology; Peter Kedron, Oklahoma State University

CHAIR(S): Dieter Franz Kogler, University College Dublin

8:00 John-Erik Rørheim\*, University of Stavanger, *Relatedness as an indicator for potential new development paths in the Stavanger region.*

8:20 Benjamin Klement\*, Philipps-Universität Marburg; Simone Strambach, Prof. Dr., Philipps-Universität Marburg, *Relatedness and innovation in urban music scenes: The evolution of symbolic knowledge spaces, 1970-2015..*

8:40 Viola Von Berlepsch\*, London School of Economics, *The missing ingredient: Distance. Internal migration and its long term impact on economic development in the United States.*

9:00 Markku Sotarauta\*, University of Tampere; Nina Suvinen, University of Tampere, *Institutional Agency and Path Creation: How Institutional Entrepreneurs and Navigators Work to Institutionalise a New Science-based Industry.*

9:20 Rune Dahl Fitjar\*, University of Stavanger; Bram Timmermans, Norwegian School of Economics, *Regional Skill Relatedness: Towards a New Measure of Regional Related Diversification.*

# WEDNESDAY April 5 • 8:00 AM - 9:40 AM • 1100

- 1144. The Impacts of Transportation in Urban Areas**  
**Room:** Constitution A, Sheraton, Second Floor (Paper Session)  
**ORGANIZER(S):** Program Committee  
**CHAIR(S):** Seth Appiah-Opoku, University Of Alabama  
**8:00** Shu-Han Yang\*, National Taiwan University; Jen-Jia Lin, National Taiwan University, *Metro-induced Commercial Gentrification*.  
**8:20** Dillon Mahmoudi, Portland State University; Amy Lubitow\*, Portland State University, *Barriers to Urban Mobility: An Engaged Methods for Vulnerable Populations*.  
**8:40** Kevin Manaugh\*, McGill University; Orly Linovski, University of Manitoba; Dwayne Baker, University of Manitoba, *Understanding the impacts of BRT in three Canadian cities*.  
**9:00** Siqi Song, National University of Singapore; Chen-Chieh Feng, National University of Singapore; Mi Diao\*, National University of Singapore, *The effect of transport pricing and supply on car usage: A pseudo panel approach*.  
**9:20** Seth Appiah-Opoku\*, University Of Alabama; Caroline Day Glass, University of Alabama; Joseph Weber, University of Alabama, *Bikeshare Program and Transit-Oriented Development in Birmingham, Alabama: A Case Study*.
- 1148. Saving the Salmon: Indigenous Peoples, Environmental Governance, and Resource Extraction (Sponsored by Indigenous Peoples Specialty Group)**  
**Room:** Beacon D, Sheraton, Third Floor (Paper Session)  
**ORGANIZER(S):** Nicole Latulippe, University of Toronto; Gabrielle Slowey  
**CHAIR(S):** Gabrielle Slowey  
**8:00** Nicole Latulippe, PhD Candidate\*, University of Toronto, *Lived and Legislated: Dimensions of First Nations Fisheries in Ontario*.  
**8:20** Andrea Jane Reid, M.Sc.\*, Carleton University, *Fisheries science through Nisga's and western knowledge systems*.  
**8:40** Victoria A. Walsey\*, University of Kansas, *Knowledge Lost in Regulation: How Changing Policy Regimes on the Yukon River Influence Transmission of Traditional Ecological Knowledge of Fishers and Future Generations*.  
**9:00** Kristen Lowitt\*, Charles Levkoe, Lakehead University; Connie Nelson, Lakehead University; Gordon Hickey, McGill University, *Exploring opportunities for sustainable fisheries and food systems governance with indigenous communities on Lake Superior*.  
**9:20** Saul David Milne, PhD Candidate\*, University of Victoria, *Surfacing Embedded Epistemological and Ontological Presuppositions in Representations of Indigenous Knowledge Systems*.
- 1149. Mobile Methods in Transport Research I: Technologies on the Move (Sponsored by Urban Geography Specialty Group, Health and Medical Geography Specialty Group, Transportation Geography Specialty Group)**  
**Room:** Beacon E, Sheraton, Third Floor (Paper Session)  
**ORGANIZER(S):** Geoffrey Andrew Battista, McGill University; Julie Clark, University of Glasgow; Kevin Manaugh, McGill University  
**CHAIR(S):** Geoffrey Andrew Battista, McGill University  
**8:00** Parker Sorenson\*, University of Connecticut, *Characterizing Interactions in Complex Urban Environments and Assessing the Suitability for Autonomous Vehicles*.  
**8:20** Anthony Vanky\*, Massachusetts Institute of Technology, *Enumerating Walking Activity and the Built Environment from Mobile Application Data*.  
**8:40** Katarzyna Sila-Nowicka\*, University of Glasgow; Piushimita (Vonu) Thakuria, University of Glasgow, *Annotating GPS Trajectories with Lifelogging Data for Contextual, High-Resolution Movement Analysis*.  
**9:00** Wei Lu\*, McMaster University; Ron Dalumpines, McMaster University; Darren M. Scott, McMaster University, *How Efficient Are Bike Share Cyclists' Routes? An Investigation Using GPS Data*.
- 1150. Excavating the Missing Macroeconomic Layer in Geographic and Economic Analysis I (Sponsored by Economic Geography Specialty Group)**  
**Room:** Beacon F, Sheraton, Third Floor (Paper Session)  
**ORGANIZER(S):** Janelle Knox-Hayes, MIT; Gary Dymksi  
**CHAIR(S):** Gary Dymksi  
**8:00** Gary Dymksi\*, University of Leeds, *From Urban Doughnut to Circular Economy: Macroeconomic Logic and Neighborhood Revitalization in Post-Crisis Sacramento*.  
**8:20** Tom Heidorn, Frankfurt School of Finance & Management; Michael H. Grote\*, Frankfurt School of Finance & Management; Matthew Zook, University of Kentucky, Lexington, *Geographical limits to arbitrage in the global oil market*.  
**8:40** Marshall Feldman, PhD\*, University Of Rhode Island, *Ground Rent in the Circuit of Capital: Time, space, and macroeconomic geography*.  
**9:00** Janelle Knox-Hayes\*, MIT, *Sustainable finance: Capturing value across social, economic and environmental dimensions..*
- 1153. Critical Approaches to Immigration Research 1: Forming Identities (Sponsored by Ethics, Justice, and Human Rights Specialty Group, Cultural Geography Specialty Group, Ethnic Geography Specialty Group)**  
**Room:** Dalton A, Sheraton, Third Floor (Paper Session)  
**ORGANIZER(S):** Dan T. Johnston, Indiana University  
**CHAIR(S):** Dan T. Johnston, Indiana University  
**8:00** Nathan Eli Thayer, MA Student\*, University of Delaware, *Changes at Home: Immigration, place, and belonging in Georgetown, Delaware*.  
**8:20** Steven Schnell\*, Kutztown University, *Identity and Place in Graphic Novels and Comics: "Ms. Marvel" and "American Born Chinese"*.  
**8:40** Shelby Smith\*, School of Geography and Development, The University of Arizona, *Being in the City: Assemblage Urbanism and Desiring Belonging*.  
**9:00** Orhon Myadar\*, University of Arizona, School of Geography and Development, *The Precarious and Bare Life: The politics of making and unmaking refugees*.  
**9:20** Felicity H Chan, Postdoctoral Research Associate\*, University of Southern California; Tridib Banerjee, University of Southern California, *Comparing the Space of Kevin Lynch and Henri Lefebvre in the City*.
- 1155. Improvisation: the art of making do (1) (Sponsored by Urban Geography Specialty Group, Cultural Geography Specialty Group)**  
**Room:** Hampton A, Sheraton, Third Floor (Paper Session)  
**ORGANIZER(S):** Martin Muller, Universität Zürich  
**CHAIR(S):** Martin Muller, Universität Zürich  
**8:00** Nicole Cook, Dr\*, The University of Melbourne, *The virtual city: Sydney's Green Bans as a makeshift planning department*.  
**8:20** Nick Dunn\*, Lancaster University, *Urban Instincts: improvisation in the nocturnal city*.  
**8:40** Lisa Levy\*, Geneva University, *Improvisation: a model of action for building cities?*.  
**9:00** Annick Leick, *Improvisation in the context of large-scale urban developments in small urban settings*.  
**9:20** Kathy Burrell\*, University of Liverpool, *Making the Infrastructures of Sending: Improvisation and Expertise in Migrants' Transnational Lives*.



**WEDNESDAY April 5 • 8:00 AM - 9:40 AM • 1100****1156. Feminist Political Geographies 1: Epistemology, Methodology, and Representation (Sponsored by Geographic Perspectives on Women Specialty Group, Cultural Geography Specialty Group)***Room: Hampton B, Sheraton, Third Floor (Paper Session)*

ORGANIZER(S): Jill Williams, Southwest Institute for Research on Women; Vanessa Anne Massaro, Bucknell University; Caroline Faria, University of Texas - Austin  
 CHAIR(S): Jill Williams, Southwest Institute for Research on Women

**8:00** Ei Phyu Smith\*, *The Body and the Field: Access, Trust, Identity.*

**8:20** Sapana Doshi, PhD\*, University of Arizona, Tucson, *Feminist political geography toolkit for an age of global fascism: Intersectionality and articulation.*

**8:40** Kiran Asher\*, University of Massachusetts, Amherst, MA, *Notes for a Postcolonial Feminist Marxist engagement with Alternatives to Development.*

**9:00** Miriam Gay-Antaki\*, University of Arizona; Audra Elisabeth El Vilaly, The University of Arizona, *Representing emotion in political feminist geographies.*

Discussant(s): Lise Nelson, Penn State University

**1157. Toward New Geographies of the Rural Global South 1 (Sponsored by Cultural and Political Ecology Specialty Group, Rural Geography Specialty Group, Development Geographies Specialty Group)***Room: Gardner A, Sheraton, Third Floor (Paper Session)*

ORGANIZER(S): Pronoy Rai, University of Illinois at Urbana-Champaign; Ryan James Stock, Geography, University Of Illinois, Urbana Champaign - Urbana, IL  
 CHAIR(S): Ryan James Stock, Geography, University Of Illinois, Urbana Champaign - Urbana, IL

**8:00** Will Shattuck, PhD Candidate\*, University of Wisconsin-Madison, *Placing rubber: agro-regional performativity in southern Thailand.*

**8:20** Olivia Aubriot\*, CNRS, *How to secure customary water rights when the geography of water use changes?.*

**8:40** Tor A. Benjaminsen, Norwegian University of Life Sciences; Faustin Maganga, University of Dar es Salaam; Halvard Buhaug, Peace Research Institute - Oslo (PRIO), *What drives African rural land-use conflicts?.*

**9:00** Pronoy Rai\*, University of Illinois at Urbana-Champaign, *Laboring Change: Seasonal Labor Migration and Social Change in Rural Maharashtra, India.*

Discussant(s): Dianne E. Rocheleau, Clark University

**1158. Author Meets Critics: Gautam Bhan's In the Public's Interest: Evictions, Citizenship, and Inequality in Contemporary Delhi (Sponsored by Asian Geography Specialty Group, Urban Geography Specialty Group, Development Geographies Specialty Group)***Room: Gardner B, Sheraton, Third Floor (Panel Session)*

ORGANIZER(S): D. Asher Ghertner, Rutgers University  
 CHAIR(S): D. Asher Ghertner, Rutgers University

Introducer: D. Asher Ghertner

Discussant(s): AbdouMaliq Simone

Panelists: Sai Balakrishnan; Jennifer Robinson, University College London; Balakrishnan Rajagopal; Gautam Bhan, Indian Institute for Human Settlements

**1159. Climate Resilience in the Built Environment***Room: Fairfax A, Sheraton, Third Floor (Interactive Short Paper Session)*

ORGANIZER(S): Sahar Mirzaee

CHAIR(S): Sahar Mirzaee

**8:00** Binita KC\*, Oak Ridge National Laboratory; J. Marshall Shepherd, Distinguished Professor, University of Georgia; Cassandra Johnson Gaither, Research Social Scientist, US Forest Service, *Climate change vulnerability assessment in Georgia, USA.*

**8:10** Matthias Ruth, Northeastern University; Sahar Mirzaee\*, Northeastern University, *Developing an integrated multi-criteria decision framework for resilient and sustainable urban structures.*

**1160. Hazards Risks and Disasters 1 - Flood Hazards (Sponsored by Hazards, Risks, and Disasters Specialty Group)***Room: Fairfax B, Sheraton, Third Floor (Paper Session)*

ORGANIZER(S): Eric Tate, University of Iowa; Johanna L. Ostling

CHAIR(S): Johanna L. Ostling

**8:00** Don Jonsson\*, Austin Community College, *The Geographic Impact of the 2015 Blanco River Floods in Texas.*

**8:20** Samuel Van Ackere\*, Department of Geography, Ghent University, Krijgslaan 281 (building S8), Ghent, Belgium; Hanne Glas, Hanne.Glas@ugent.be, Department of Civil Engineering, Ghent University, V.Vaerwyckweg 1, Ghent, Belgium; Greet Deruyter, greet.deruyter@ugent.be, Department of Civil Engineering, Ghent University, V.Vaerwyckweg 1, Ghent, Belgium; Philippe De Maeyer, Department of Geography, Ghent University, Krijgslaan 281 (building S8), Ghent, Belgium, *Flood Impact and Risk Assessment for Urban City Ghent.*

**8:40** Michael Flynn, CFM\*, East Carolina University; Tom Allen, PhD, Old Dominion University, *Visualizing the Vulnerability of Coastal Development to Multiple Coastal Hazards.*

**9:00** Ryo Inoue\*, Tohoku University; Masaya Nagayoshi, Tohoku University; Daisuke Komori, Tohoku University, *Identifying change-points of real estate prices in areas of recurring floods: A case study in the Kanda River basin, Tokyo.*

**9:20** Clay Tucker, M.S.\*, Louisiana State University; Kory Konsoer, Ph.D., Louisiana State University; Jill Trepanier, Ph.D., Louisiana State University, *Communicating Return Periods of Extreme Flood Events: Insights from the 2016 Louisiana Flood.*

**1161. Meet the Editors - GIScience Journals (Sponsored by Geographic Information Science and Systems Specialty Group)***Room: Jefferson, Sheraton, Third Floor (Panel Session)*

ORGANIZER(S): Nicholas Chrisman, CaGIS

CHAIR(S): Nicholas Chrisman, CaGIS

Panelists: Nicholas Chrisman, CaGIS; May Yuan, University of Texas - Dallas; Jean-Claude Thill, University of North Carolina at Charlotte; John P. Wilson, University Of Southern California

**1162. Emerging Urban Landscape in Global South 1 (Sponsored by Regional Development and Planning Specialty Group, Asian Geography Specialty Group, Urban Geography Specialty Group)***Room: Kent, Sheraton, Third Floor (Paper Session)*

ORGANIZER(S): Diganta Das, Nanyang Technological University; Bikramaditya K. Choudhary, Jawaharlal Nehru University

CHAIR(S): Bikramaditya K. Choudhary, Jawaharlal Nehru University

**8:00** Jennifer Y. Pomeroy, PhD\*, York College of Pennsylvania, *A Woman's Place? Examining Urban Social Space in India.*

**8:20** Sayoni Bose\*, Governors State University, *From Land Reforms to Land Grabbing in India: Changing Class Relations and Contingent Alliances in Singur.*

**8:40** Daniel Fischelli\*, University of North Texas, *Identity, Othering, and Displacement: How Imagined Geographies Are Complicit in the Production of Religious Violence in Jakarta, Indonesia.*

**9:00** Matt Wade\*, UC Berkeley, *Academics in the Finance Capital: The Role of Situated Expertise in Making*

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*Jakarta "Mega".*

- 9:20 Meheubub Rahaman\*, Jawaharlal Nehru University, New Delhi, *Peripheralization of Slums? A Study on Emerging Spatial Concentration of Slums in Indian Cities.*

## 1164. Truthful Lies: Race, Coloniality, and the Archive of Modernity

- Room: *Boylston, Marriott, First Floor* (Panel Session)  
 ORGANIZER(S): Benjamin Rubin, CUNY - Graduate Center; Maegan Miller, CUNY - Graduate Center  
 CHAIR(S): Maegan Miller, CUNY - Graduate Center  
 Panelists: Aaron Mallory, University of Minnesota - Minneapolis; Daniela Aiello, University of Georgia; Benjamin Rubin, CUNY - Graduate Center

## 1165. Geography of Financial Markets and Institutions (Sponsored by European Specialty Group, Economic Geography Specialty Group, Business Geography Specialty Group)

- Room: *Tremont, Marriott, First Floor* (Paper Session)  
 ORGANIZER(S): Balázs Forman, Corvinus University of Budapest  
 CHAIR(S): Balázs Forman, Corvinus University of Budapest  
 Introducer: Balázs Forman  
 8:10 Kuo Siong Tan\*, SUNY - Buffalo, *The Secret Spaces of International Finance.*  
 8:30 Zoltán Gál, Professor\*, Centre for Economic & Regional Studies, HAS; Erika Nagy, dr., CERS, Insitute for Regional Studies, HAS; Zsuzsi Pósfai, CERS, Insitute for Regional Studies, HAS, *Dependent Financialization And Inequalities: The Uneven Development Of The Housing Market In Cee.*  
 8:50 Alan Walks\*, University Of Toronto, *Driving the Poor Into Debt? Automobile loans, Transport Disadvantage, and Automobile-Dependence.*  
 9:10 Laura Pangallozzi, PhD\*, New York City College of Technology, CUNY, *How Local became Global in a Housing Market in New Jersey.*

## 1166. Training Geographers for Collaborative, Real-World Research I

- Room: *Columbus 1, Marriott, First Floor* (Panel Session)  
 ORGANIZER(S): Allison Hayes-Conroy, Temple University; Hamil Pearsall, Temple University; Kevin Henry, Temple University  
 CHAIR(S): Allison Hayes-Conroy, Temple University  
 Discussant(s): Kevin Henry, Temple University; Allison Hayes-Conroy, Temple University  
 Panelists: Arthur Elmes, Clark University; Timothy L. Hawthorne, University of Central Florida; Dirk Kinsey, Temple University; Erin Goodling

## 1167. Housing and Residential Settlement in Chinese cities (Sponsored by China Specialty Group)

- Room: *Columbus 2, Marriott, First Floor* (Paper Session)  
 ORGANIZER(S): Xiaobo Su, University of Oregon  
 CHAIR(S): Xiaoling Zhang, City University of Hong Kong  
 8:00 Si-ming Li, Geography Department, Hong Kong Baptist University; Sanqin Mao\*, *Exploring Residential Mobility in Chinese cities: An Empirical Analysis of Guangzhou.*  
 8:20 Xiaoling Zhang\*, City University of Hong Kong, *Suburbanization and residential resettlement in china.*  
 8:40 Tiantian Wang\*, the University of Tokyo, *The Formation of Suburban Residential Area in Chinese Cities from a Life-course Perspective: A Case Study of Huilongguan Complex, Beijing.*  
 9:00 Siyao Liu\*, University College London; Fulong Wu, University College London; Fangzhu Zhang, University College London, *Neighbourhood Diversification and Variegated Integration of Migrants in Urban Beijing.*

## 1168. Emerging 21st Century Cities I (Sponsored by Urban Geography Specialty Group)

- Room: *St. Botolph, Marriott, Second Floor* (Paper Session)  
 ORGANIZER(S): Kris Bezdecny, California State University - Los Angeles; Kevin W. Archer, Central Washington University  
 CHAIR(S): Kevin W. Archer, Central Washington University  
 8:00 Kevin W. Archer\*, Central Washington University, *Theorizing Emerging 21st Century Cities.*  
 8:20 Kris Bezdecny\*, California State University - Los Angeles, *Uneven geographical development in globalizing cities.*  
 8:40 Martin Julius Murray, Professor of Urban Planning, Taubman College of Architecture and Urban Planning, University of Michigan, *Divergent Pathways for Global Urbanism at the Start of the 21st Century.*  
 9:00 Peter Wood\*, Universidade Federal De Minas Gerais, *Border cities: urban growth and planning at the national periphery.*  
 9:20 Emily Fekete, PhD\*, Oklahoma State University, *Urban Renewal and the Hybrid City: Using Data for Development.*

## 1169. Contesting Market-Based Logic: Alternative Discourses of Payments for Ecosystem Services I - Exploring Theoretical Boundaries (Sponsored by Cultural and Political Ecology Specialty Group, Latin America Specialty Group, Economic Geography Specialty Group)

- Room: *Regis, Marriott, Third Floor* (Paper Session)  
 ORGANIZER(S): Elizabeth N. Shapiro-Garza, Duke University; Ruxandra Popovici, Duke University; Christine Folch, Duke University  
 CHAIR(S): Ruxandra Popovici, Duke University  
 8:00 Vijay Kolinjivadi, PhD\*, Postdoctoral Fellow; Jerome Dupras, PhD, Assistant Professor, *Beyond the neoliberalizing performative: An alternative understanding of how Payments for Ecosystem Services (PES) schemes emerge in practice.*  
 8:17 Gert Themba Van Hecken\*, Institute of Development Policy and Management (IOB); Johan Bastiaensen, Institute of Development Policy and Management (IOB); Frédéric Huybrechts, Institute of Development Policy and Management (IOB), *Epistemic perspectives and Payments for Ecosystem Services policies in Nicaragua.*  
 8:34 Elizabeth N. Shapiro-Garza\*, Duke University; Tracey Osborne, University of Arizona, *Embedding carbon markets: Complicating commodification of ecosystem services in Mexico's forests.*  
 8:51 Daniel Suarez\*, University of California, Berkeley, *Mainstreaming Natural Capital: Ecosystem Services & the Paradox of Embedded Agency.*  
 9:08 Patrick M Gallagher\*, University of Texas - San Antonio, *Ecosystem Services and the Economy of Nerves in Coastal Belize.*  
 Discussant(s): Esteve Corbera, Institute of Environmental Science and Technology

## 1170. Transit Landscapes (Sponsored by Transportation Geography Specialty Group)

- Room: *Northeastern, Marriott, Third Floor* (Paper Session)  
 ORGANIZER(S): Michael Minn, Eastern Washington University  
 CHAIR(S): Michael Minn, Eastern Washington University  
 8:00 Amure Kemi\*, Africa; Samuel Iyiola Oni, Professor of Transport Geography, *Commuter's perceptions of the Bus Rapid Transit-Lite in Lagos Metropolis, Nigeria.*  
 8:20 Luis R. Ortiz Sanchez\*, University of Puerto Rico - Rio Piedras, *Cutting Cost or Cutting Corners? An analysis of the service changes of the Metropolitan Bus Authority in San Juan, Puerto Rico.*



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## 1171. Coastal and Marine

**Room:** Brandeis, Marriott, Third Floor (Paper Session)  
 ORGANIZER(S): Program Committee  
 CHAIR(S): Matthew Miller, Southern Connecticut State University

**8:00** Luojia Hu\*, College of Global Change and Earth System Science, Beijing Normal University; Xiaoxu Wu, College of Global Change and Earth System Science, Beijing Normal University; Wenyu Li, Center for Earth System Sciences, Tsinghua University; Peng Gong, Center for Earth System Sciences, Tsinghua University; Bing Xu, Center for Earth System Sciences, Tsinghua University, *A review of mangrove shoreline dynamics: from observation methods to mechanisms of biotic and abiotic drivers.*

**8:20** Haibin Su\*, Texas A&M University - Kingsville, *Bathymetry Mapping with Multispectral Imagery - Comparison between Collocated Cokriging and Regression Kriging methods.*

**8:40** Xuelian Meng\*, Louisiana State University; Xukai Zhang, Louisiana State University; Chunyan Li, Louisiana State University, *Mapping under-canopy topography in densely vegetated coastal environment by integrating crown structures with ground sampling.*

**9:00** Matthew D. Miller, PhD\*, Southern Connecticut State University, *Geologic Basin Potentials for Mitigating Sea-level Rise.*

## 1172. Legal Geography and Social Justice I (Sponsored by Socialist and Critical Geography Specialty Group, Cultural Geography Specialty Group)

**Room:** MIT, Marriott, Third Floor (Paper Session)  
 ORGANIZER(S): Kafui Attoh, CUNY Murphy Institute; Joaquin Villanueva, Gustavus Adolphus College

CHAIR(S): Kafui Attoh, CUNY Murphy Institute  
**8:00** Alexandra Flynn\*, University of Toronto Scarborough, *Mapping Local Governance: Business Improvement Areas and Neighbourhood Associations in Toronto.*

**8:17** Gabriel Frey Schuster, Hunter College, CUNY, *Rethinking Eminent Domain: Conflicting Imaginaries Around Brooklyn's Atlantic Yards - Barclays Center Development Project.*

**8:34** Elsa Noterman\*, University of Wisconsin - Madison, (II) *legal geographies: adverse possession and the urban commons.*

Discussant(s): Don Mitchell, Syracuse University

## 1173. Conceptual Frameworks

**Room:** Boston University, Marriott, Third Floor (Paper Session)  
 ORGANIZER(S): Program Committee  
 CHAIR(S): Mark McCarthy, Galway-Mayo Institute of Technology

**8:00** Casey William Chamberlain\*, SUNY College of Environmental Science and Forestry, *Environmentalism on Campus: Institutional Technologies and the Making of Subjects.*

**8:20** Adam Okulicz-kozaryn\*, *What predicts purpose?.*

**8:40** Toni Ahlqvist\*, Geography Research Unit, University of Oulu, *Future and the management of state's space-time.*

**9:00** Sungwoong Choi\*, SUNY at Buffalo, *Rethinking Regional Economic Resilience.*

**9:20** Shirley Wrynn, BA, MSc\*, Galway-Mayo Institute of Technology, *The Evolution of the Irish Volunteers, 1913-1916: A County Galway Perspective.*

## 1174. CyberGIS and Data-Intensive Computing for Taming Big Data (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group, Spatial Analysis and Modeling Specialty Group)

**Room:** Simmons, Marriott, Third Floor (Paper Session)  
 ORGANIZER(S): Eric Shook, University of Minnesota; Shaowen

Wang, University of Illinois at Urbana-Champaign  
 CHAIR(S): Christopher D. Lippitt, University of New Mexico  
**8:00** Christopher D. Lippitt\*, University of New Mexico, *Near Real-time Remote Sensing Data and Earth Science Priorities.*

**8:20** Jayakrishnan Ajayakumar\*, Kent State University; Eric Shook, University of Minnesota, *Analyzing Spatio-Temporal Variations in Public Response through Twitter about the Potential Spread of Ebola in the United States.*

**8:40** Larry Stanislawski\*, USGS - CEGIS; Barbara P Buttenfield, Prof., University of Colorado-Boulder; Jeff Wendel, USGS-CEGIS, *Deriving a Surface-Water Drainage Network from a Lidar- Based DEM.*

**9:00** Fei Hu\*, George Mason University; Chaowei Yang, George Mason University, *ClimateSpark: A High Performance Distributed Computing Framework for Big Climate Data Analytics.*

Discussant(s): Shaowen Wang, University of Illinois at Urbana-Champaign

## 1175. Geospatial Health Research Symposium: Suicide, illicit drug use & addiction I (Sponsored by Spatial Analysis and Modeling Specialty Group, Health and Medical Geography Specialty Group)

**Room:** Suffolk, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Eric M. Delmelle, University of North Carolina at Charlotte; Mei-Po Kwan, University of Illinois at Urbana-Champaign; Michael J. Widener, University of Toronto

CHAIR(S): Kate Lester, University of North Texas

**8:00** Elizabeth R Groff, PhD\*, Temple University; Julie Hibdon, PhD, University of Southern Illinois, *Using Emergency Medical Services Call Data to Develop a More Robust Geography of Illicit Drug Use.*

**8:20** Hoehun Ha\*, Auburn University at Montgomery, *Positive Association between Altitude and Suicide in 3,141 U.S. Counties.*

**8:40** Zan M. Dodson\*, University of Pittsburgh; Eun-hye Enki Yoo, University of Buffalo (SUNY); Jeanine M. Buchanich, University of Pittsburgh; Christina Mair, University of Pittsburgh, *Understanding the level of uncertainty associated with data fusion for modeling the current opioid/heroin epidemic.*

Discussant(s): Eric M. Delmelle, University of North Carolina at Charlotte

## 1177. Extra-regional dynamics of territorial development I: Placing Networks

**Room:** Harvard, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Stuart Dawley, CURDS, Newcastle University  
 CHAIR(S): Stuart Dawley, CURDS, Newcastle University

**8:00** Markus Steen\*, SINTEF Technology & Society; Stuart Dawley, CURDS, Newcastle University; Andreas Dypvik Landmark, SINTEF Technology & Society, *Global production networks in emerging industries: The case of offshore wind power.*

**8:20** Rory Horner\*, University of Manchester; Khalid Nadvi, University of Manchester, *Global Production Networks and the Rise of the Global South: unpacking 21st century polycentric trade.*

**8:40** Karen P.Y. Lai\*, National University of Singapore; Kurtulus Gemici, National University of Singapore, *Regional dynamics of investment banking in Asia: An analysis of M&A activities, 1995-2015.*

**9:00** Andrew Jones\*, City University London, *The Nexus of Professional Services Practices in Chinese Financial Centres.*

**9:20** Sabine Dörny\*, Luxembourg Institute of Socio-Economic Research, *Disrupting the GPNs of finance with technology: Strategic coupling or strategic struggling?.*

**WEDNESDAY April 5 • 8:00 AM - 9:40 AM • 1100****1179. Land Systems and Sustainability Science (Sponsored by Cultural and Political Ecology Specialty Group, Human Dimensions of Global Change Specialty Group, Geographies of Food and Agriculture Specialty Group)***Room:* Arlington, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Richard J. Aspinall

CHAIR(S): Richard J. Aspinall

Introducer: Richard J. Aspinall

**8:05** Ariane de Bremond\*, Global Land Programme/CDE-Switzerland/UMD Geographical Sciences; Peter Messerli, Professor, Centre for Development and Environment (CDE), Institute of Geography, University of Bern; Albrecht Ehrensperger, Centre for Development and Environment (CDE) University of Bern; Isabelle Providoli, Centre for Development and Environment (CDE) University of Bern, *Establishing a Science-policy Interface for Sustainable Land Systems - an Initiative of Future Earth's Global Land Programme (GLP)*.

**8:25** Theano S. Terkenli\*, University of the Aegean; Evangelos Pavlis, University of the Aegean, *Landscape Values in Greece: A Critical Approach to Cultural Sustainability*.

**8:45** Richard Ross Shaker, M.Sc., Ph.D.\*, Ryerson University, *Strengths and Weaknesses of Index-based Assessments of Sustainable Landscape Function*.

**9:05** Bryan Christopher Runck, M.S.\*, University of Minnesota, *Developing Geodesign Systems through Co-Design*.

**9:25** Richard J. Aspinall\*, Independent, *Can Land Systems Science help to identify Sustainable Landscapes?*

**1180. Characterizing and monitoring land cover and land cover change using remote sensing(I) (Sponsored by Geographic Information Science and Systems Specialty Group, Remote Sensing Specialty Group, Urban Geography Specialty Group)***Room:* Berkeley, Marriott, Third Floor (Paper Session)

ORGANIZER(S): George Xian, USGS EROS Data Center; Jim Vogelmann, USGS/EROS

CHAIR(S): George Xian, USGS EROS Data Center

**8:00** Matt P Schauer, GIS Analyst, Innovate!, Inc/USGS; Gabriel Senay, PhD, US Geological Survey; MacKenzie Friedrichs, SGT, Inc/USGS; Naga Manohar Velpuri, Inuteq/USGS; Ramesh Singh, Inuteq/USGS, *Assessing long-term changes in water use in Central Valley, California, with evapotranspiration derived from historical Landsat data (1984-2014)*.

**8:20** Frank D. W. Witmer\*, University of Alaska Anchorage; E. Jamie Trammell, University of Alaska Anchorage, *Trends in Surface Water using the Landsat Archive: Kenai Watershed, Alaska*.

**8:40** Daniel LeVine\*, University of Texas - Austin; Kelley Crews, University of Texas - Austin, *Vegetation Cover Trends in a Kalahari Rangeland: Integrating in situ Fieldwork Data and Landsat Time-series Analysis*.

**9:00** Weishu Gong\*, University of Maryland - College Park, *Using Landsat Time Series to Estimate Timber Product Output In the US*.

**9:20** George Xian\*, USGS EROS Data Center, *Characterization of Decadal Wetland Variations from National Land Cover Product*.

**1181. (Extra)territoriality Part I: Occupation, disputed territory, and geopolitics (Sponsored by Political Geography Specialty Group, Cultural Geography Specialty Group)***Room:* Clarendon, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Sara N. Hughes, University of California - Los Angeles; Josh Watkins

CHAIR(S): Sara N. Hughes, University of California - Los Angeles

**8:00** Johanne M. Bruun\*, University of Durham, *Invading the whiteness: Extra-territorial science and US militarisation of the Greenland icecap*.

**8:15** Klaus Dodds\*, Royal Holloway, University of London;

Chih Yuan Woon\*, National University Of Singapore, *Dredging up the volume: China, earthly engineering and the projection of geopolitics in the South China Sea*.

**8:30** Christine Carolan\*, University of Oregon, *The Deep Politics of a Shallow Lake*.

**8:45** Edward Boyle\*, Kyushu University, *Inaccessible yet Integral Territory: Japan's territorial disputes and their sovereign implications*.

**9:00** Sara N. Hughes, PhD Candidate\*, University of California - Los Angeles, *Unbounded territoriality*.

Discussant(s): Reece Jones, University of Hawaii at Manoa

**1182. Author-Meets-Critics: Simon Springer's The Anarchist Roots of Geography: Toward Spatial Emancipation (Sponsored by Political Geography Specialty Group, History of Geography Specialty Group)***Room:* Dartmouth, Marriott, Third Floor (Panel Session)

ORGANIZER(S): Richard J. White, Sheffield Hallam University; James D. Sidaway, National University of Singapore

CHAIR(S): James D. Sidaway, National University of Singapore

Introducer: Simon Springer

Discussant(s): Carrie Mott, Rutgers University

Panelists: Shona Loong, National University of Singapore; Lawrence Knopp, University of Washington Tacoma; Farhang Rouhani, University of Mary Washington; Jonathan M. Smith, Texas A&M; Geronimo Barrera; Nicholas Jon Crane, University of Wyoming

**1183. Rethinking the Digital and Analogue: Epistemologies of the Anthropocene***Room:* Exeter, Marriott, Third Floor (Panel Session)

ORGANIZER(S): Nathaniel O'grady, Durham University; David Chandler, University of Westminster; Charlotte Heath-Kelly, University of Warwick

CHAIR(S): Nathaniel O'grady, Durham University

Introducer: Nathaniel O'grady

Panelists: Charlotte Heath-Kelly, University of Warwick; David Chandler, University of Westminster; Athina Karatzogianni, University of Leicester - Leicester

**1184. Potential and Pitfalls for Using Microblogging Data in Studying Cities***Room:* Fairfield, Marriott, Third Floor (Panel Session)

ORGANIZER(S): Justin Hollander, Tufts University

CHAIR(S): Justin Hollander, Tufts University

Panelists: Justin Hollander, Tufts University; Andrew James Wiley, Tufts University; Henry C. Renski, University of Massachusetts - Amherst -

**1185. New Records of Paleoenvironmental Change I (Sponsored by Paleoenvironmental Change Specialty Group)***Room:* Salon H, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Matthew T. Kerr, The University of Tennessee; Anna Agosta G'meiner, McGill University

CHAIR(S): Matthew T. Kerr, The University of Tennessee

Introducer: Matthew T. Kerr

**8:00** Julie Commerford\*, Dartmouth College; Eric C Grimm, University of Minnesota; Christopher J Morris, Kansas State University; Andrea Nurse, University of Maine; Vania Stefanova, University of Minnesota; Kendra K McLauchlan, Kansas State University, *Regional variation in Holocene climate quantified from pollen in the Great Plains of North America*.

**8:20** Tyler J Prince, BSc\*, Brock University; Michael FJ Pisarcik, PhD, Brock University; Kevin W Turner, PhD, Brock University, *Postglacial reconstruction of fire history from a small lake in southwest Yukon Territory using sedimentary charcoal and pollen*.

**8:40** Sally P. Horn\*, University Of Tennessee; Mathew S. Boehm, University of Tennessee; Erik N. Johanson, University of Tennessee; Elizabeth M. MacLennan, University of Tennessee; Chad S. Lane, University of

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North Carolina Wilmington, *A New Sediment Record from the Blue Ridge Mountains of North Carolina*.

**9:00** Matthew T. Kerr\*, The University of Tennessee; Taylor E. Tieche, The University of Tennessee; Roger D. Horn, The University of Tennessee; Thaddeus G. Bissett, Northern Kentucky University; David G. Anderson, The University of Tennessee; Sally P. Horn, The University of Tennessee, *Sub-Annual Resolution Oxygen Isotope Analysis Reveals Season of Harvest in Archaeological Freshwater Mussel Shells from Middle Tennessee*.

**9:20** Tripti Bhattacharya, Dr.\*, Department of Geosciences, University of Arizona; Jessica E. Tierney, Dr., Department of Geosciences, University of Arizona; Pedro DiNezio, Dr., Institute of Geophysics, University of Texas Austin, *Evolution of the North American Monsoon in leaf wax proxy records and model simulations*.

**1186. Spatial Humanities I: Transportation, History, and Literature (Sponsored by Historical Geography Specialty Group)**

**Room:** *Salon I, Marriott, Fourth Floor (Paper Session)*  
ORGANIZER(S): Robert Schwartz, Retired; Christophe MIMÉUR, Laboratoire TheMA CNRS

CHAIR(S): Robert Schwartz, Retired

**8:00** Donald Janelle\*, University of California, Santa Barbara, *An Argument for Grounding Transportation Geography in the Humanities*.

**8:20** Charles Bartlett Travis\*, University of Texas, Arlington, *Scaling the Tower of Babel: Abstract Machines, HumGIS and the Vagaries of Space, Time & Sense of Place*.

**8:40** Christophe MIMÉUR\*, Laboratoire TheMA CNRS; Thomas THEVENIN, Laboratoire TheMA CNRS, *From the Historical GIS FRaNcE to the modelling of the diffusion of the railway network*.

**9:00** Ian N. Gregory\*, Lancaster University, *Using GIS to explore Lake District literature*.

Discussant(s): Robert Schwartz, Retired

**1187. East Asia Urbanization Today**

**Room:** *Salon J, Marriott, Fourth Floor (Paper Session)*  
ORGANIZER(S): Program Committee  
CHAIR(S): HaeRan Shin, Seoul National University  
**8:00** Kang Wu\*, Capital University of Economics and Business, *Urban shrinkage in the Beijing-Tianjin-Hebei Region and Yangtze River Delta: Pattern, trajectory and determinants*.

**8:20** Jiangsu Li\*, Institute of Yellow River Civilization and Sustainable Development, Henan University; Xiaorui Wang, Institute of Yellow River Civilization and Sustainable Development, Henan University; Changhong Miao, Institute of Yellow River Civilization and Sustainable Development, Henan University, *Based on C2R and C2GS2 Model: the Development Efficiency of Resource-Based Cities*.

**8:40** Anna Gasco\*, Singapore-ETH Centre - Future Cities Laboratory; Naomi C Hanakata, Singapore-ETH Centre - Future Cities Laboratory, *The Grand Project - Towards adaptable and liveable urban megaprojects*.

**9:00** Sangwon Chae, Mr, Seoul National University; HaeRan Shin, Dr\*, Seoul National University, *Urban Growth Regime In Post-Developmental State: The Emergence Of Informal Factories In Gimpo, South Korea*.

**9:20** PIN-CHU CHEN\*, University of Durham, *Discussing the Formation of Urban Daily Life in Taiwan through the Operation of A Cultural Life Circuit..*

**1188. Disruption or displacement? Exploring the complex interactions between the environment and migration (1 out of 2) (Sponsored by Human Dimensions of Global Change Specialty Group, Population Specialty Group)**

**Room:** *Salon K, Marriott, Fourth Floor (Paper Session)*  
ORGANIZER(S): Maia Call; Mathew Hauer, University of Georgia

CHAIR(S): Mathew Hauer, University of Georgia

Introducer: Clark Gray

**8:20** Brad D. Jokisch\*, Ohio University; Claudia Radel, Utah State University; Lindsey Carte, Universidad de la Frontera; Birgit Schmook, ECOSUR, *The Difference Migration Makes: How Migration is part of Nature-Society Geography*.

**8:40** Samuel Ian Dupre, MSc\*, University of Maryland, Baltimore County, *Multi-scalar impacts of coffee leaf rust, migration and land sales following a climate-driven coffee pest emergency*.

**9:00** Elizabeth Fussell, Ph.D.\*, Brown University; Sara R. Curran, Ph.D., University of Washington; Matthew D. Dunbar, Ph.D., University of Washington; Michael A. Babb, Ph.D., University of Washington; LuAnne Thompson, Ph.D., University of Washington; Jacqueline Meijer-Irons, Ph.D., University of Washington, *Weather-related hazards and population change: A study of hurricanes and tropical storms in the U.S., 1980-2012..*

**9:20** Douglas L Hopping\*, University of North Carolina at Chapel Hill; Clark Gray, University of North Carolina at Chapel Hill, *Contextual Influences on the Climate-Migration Relationship: Evidence from India*.

**1189. The Digital as Method and Object (Sponsored by Qualitative Research Specialty Group, Communication Geography Specialty Group)**

**Room:** *Vineyard, Marriott, Fourth Floor (Paper Session)*  
ORGANIZER(S): Beyhan Farhadi, University of Toronto; Michelle D. Majeed, University of Toronto

CHAIR(S): Nehal El-Hadi, University of Toronto

**8:00** Peter T. Dunn\*, University of Washington, *Attending Algorithms: Visibility and Care in the Software-Mediated City*.

**8:20** Natasha Majewski\*, University of Nevada, Reno, *Transforming Places through Digital Library Spaces: Place, Story, and GIS in Interactive Online Exhibit Curation*.

**8:40** Michelle D. Majeed\*, University of Toronto, *"Virtually Grounded"? The Indigenization of Higher Education in Online Courses*.

**9:00** L. Lynnette Dornak\*, University of Wisconsin; Richard A. Waugh, Ph.D., University of Wisconsin-Platteville, *Can social media be used (reliably) for data collection in studies geographic research?*.

Discussant(s): Beyhan Farhadi, University of Toronto

**1190. Wine I: Old and New World Wines and Viticulture (Sponsored by Wine Specialty Group)**

**Room:** *Yarmouth, Marriott, Fourth Floor (Paper Session)*  
ORGANIZER(S): Christi Townsend, Texas State University -San Marcos

CHAIR(S): Denyse Lemaire, Rowan University

**8:00** Robert P. Sechrist\*, Indiana University of Pennsylvania, *American Wineries outside California, 1937-1988*.

**8:20** Gerhard Rainer\*, Katholische Universität Eichstätt-Ingolstadt; Jutta Kister, University of Innsbruck; Christian Steiner, Katholische Universität Eichstätt-Ingolstadt, *Transforming and re-inventing traditional wine regions: South Tyrol in a globalized wine industry*.

**8:40** Do Yeon Lim\*, Seoul National University, *Knowledge Transfer and Regional Evolution: A case study of the wine industry in the Eastern Foot of Helan Mountain region, Ningxia, China*.

**9:00** Percy H. Dougherty\*, Kutztown University of Pennsylvania, *Comparison of Wine Prices in Pennsylvania and Neighboring States*.



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**9:20** Denyse Lemaire, Ph.D.\*, Salish Kootenai College; Charles McGlynn, Ph.D., Rowan University, *The Study of Risk Management Strategies Used by Vineyard Owners in Burgundy, France as they Experience Repeated Destructive Environmental Events...*

**1191. RCEEE and its Pivot to Eurasia (Sponsored by Russian, Eurasian Specialty Group, Political Geography Specialty Group, Asian Geography Specialty Group)**

**Room:** Nantucket, Marriott, Fourth Floor (Panel Session)  
**ORGANIZER(S):** Jeremy Tasch, Towson University  
**CHAIR(S):** Jeremy Tasch, Towson University

**1192. Adaptation to Climate Change in Africa: Evidence from the field (Sponsored by Climate Specialty Group, Africa Specialty Group, Development Geographies Specialty Group)**

**Room:** Provincetown, Marriott, Fourth Floor (Paper Session)  
**ORGANIZER(S):** Michael Mikulewicz, University of Manchester - Manchester  
**CHAIR(S):** Michael Mikulewicz, University of Manchester - Manchester

**8:00** Michael Mikulewicz\*, University of Manchester - Manchester, *Experts' Views on Adaptation to Climate Change and Development: Challenges and Opportunities in sub-Saharan Africa.*

**8:20** Francis Ebuta Bisong, Prof\*, Department of Geography and Environmental Science, University of Calabar, Nigeria, *Climate Resilient Adaptation Pathways in Africa's Agricultural Sector.*

**8:40** Elizabeth Edna Wangui, PhD\*, Ohio University, *Adaptation to climate change in pastoralist communities in Africa.*

**9:00** Hanson Nyantakyi-Frimpong, University of Toronto; Marney E. Isaac\*, University of Toronto; Petr Matous, University of Sydney, *Rural co-operative networks and agroecosystem management under climate change in Ghana: A multicase comparison using Exponential Random Graph Models.*

**9:20** Erin Kitchell\*, University of Wisconsin-Madison, *Land Rights in the Sahel: Local Institutions and Adaptation to Environmental Change in rural Senegal.*

**1193. Feminist, Queer and Critical Race Tool Kits 1: Arts-based and Visual Methods (Sponsored by Geographic Perspectives on Women Specialty Group, Urban Geography Specialty Group)**

**Room:** Orleans, Marriott, Fourth Floor (Panel Session)  
**ORGANIZER(S):** Leslie Kern, Mount Allison University; Heather McLean, University of Glasgow  
**CHAIR(S):** Leslie Kern, Mount Allison University  
**Discussant(s):** Heather McLean, University of Glasgow  
**Panelists:** Krystal Nandini Ghisyawan, Rutgers University; Linda Lapina, Roskilde University; Jenna Christian, Pennsylvania State University; Amie Thurber, Vanderbilt University; Oona Morrow, Trinity College Dublin

**1194. Directions for computational modeling of complex systems with big data and big models (Sponsored by Geographic Information Science and Systems Specialty Group, Graduate Student Affinity Group)**

**Room:** Hyannis, Marriott, Fourth Floor (Paper Session)  
**ORGANIZER(S):** Patrick Bitterman, University of Iowa; Eun-Kyeong Kim, The Pennsylvania State University  
**CHAIR(S):** Patrick Bitterman, University of Iowa  
**8:00** Sean C. Ahearn, Professor\*, Hunter College - City University; Somayeh Dodge, Assistant Professor, University of Minnesota - TC; David L. Smith, Professor, University of Minnesota - TC; Achara Simcharoen, Ph.D., Royal Thai Government, *Exploring Patterns of Interaction in Movement of tigers (Panthera tigris).*

**8:20** Guangzhao Chen\*, Sun Yat-sen University; Xia Li, Sun Yat-sen University; Yao Yao, Sun Yat-sen University,

*Coupling cellular automata and cyberspace data for modeling large scale urban land-use dynamics.*

**8:40** Alex Kara\*, University of Cincinnati, *Canals, Collapse, and Causation: Applying Agent-Based Modeling towards Understanding the Ancient Maya's Terminal Classic Collapse.*

**9:00** Renia Kagkou, Master's Candidate\*, Harvard University, *Understanding Urbanization Through Food Systems: An Exploration Based On Land Use Modeling And Simulation.*

**9:20** Victor Pena-Guillen\*, University of Tsukuba; Akinobu Murakami, University of Tsukuba, *An agent-based model on the improvement of informal houses at city block scale in Lima.*

**1195. Land resources and pollution 1 (Sponsored by Geographic Information Science and Systems Specialty Group, Health and Medical Geography Specialty Group)**

**Room:** Falmouth, Marriott, Fourth Floor (Paper Session)  
**ORGANIZER(S):** Wenjie Wang, University of Connecticut; Chuanrong Zhang, University of Connecticut, Department of Geography; Shougeng Hu, China University of Geosciences  
**CHAIR(S):** Shougeng Hu, China University of Geosciences  
**8:00** Shougeng Hu\*, Department of Land Resource Management, China University of Geosciences; Chuanrong Zhang, Department of Geography and Center for Environment Sciences and Engineering, University of Connecticut, *Downscaling Geographically Weighted Regression for Agricultural Land Use Classification with Remote Sensing.*

**8:20** Haitao Zhang\*, Huazhong Agricultural University, *Spatial Distributions of Heavy Metals in Cultivated Soils Near the Mining Area of Daye Copper Basin.*

**8:40** Guo Long\*, Huazhong Agricultural University, *Mapping the SOC stocks and its frations by the airborne hyperspectral images and geostatistical models.*

**9:00** Shengfu Yang\*, China University of Geosciences, University of Connecticut, *Spatiotemporally varying effects of main impact factors on residential land price in major cities of China.*

**9:20** Yuan Gao\*, *Urban ecological security simulation and predict under increasing urbanization process.*

**1196. Publics, Pedagogies, and Praxis: Engaged Research and Scholarship in Critical Geography Session 1 Participatory Action Research (Sponsored by Cultural and Political Ecology Specialty Group, Ethics, Justice, and Human Rights Specialty Group, Socialist and Critical Geography Specialty Group)**

**Room:** Maine, Marriott, Fifth Floor (Paper Session)  
**ORGANIZER(S):** Joel E. Correia, University of Colorado, Boulder; Tracey Osborne, University of Arizona  
**CHAIR(S):** Tracey Osborne, University of Arizona  
**8:00** Steven M Radil, University of Idaho; Matthew Anderson\*, Eastern Washington University, *Rethinking PGIS: Participatory or (Post)Political GIS?.*  
**8:15** Melissa Heil\*, University of Illinois, *Visualizing Austerity: Public Engagement, Crisis, and the Roll-Back of the Welfare State in Illinois.*  
**8:30** Jennifer Brewer\*, University of New Hampshire, *Civic Geography and the Perils of Agonism.*  
**Discussant(s):** Kathryn Kinsale Davies, National Institute of Water and Atmospheric Research (NIWA); Caitlin Cahill, Pratt Institute

**1197. Geopolitics of Tourism I: (Sponsored by Recreation, Tourism, and Sport Specialty Group, Political Geography Specialty Group, Cultural and Political Ecology Specialty Group)**

**Room:** Massachusetts, Marriott, Fifth Floor (Paper Session)  
**ORGANIZER(S):** Mary Mostafanezhad, University of Hawai'i at Manoa; Matilde Cordoba Azcarate, University of California, San Diego; Roger Norum

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CHAIR(S): Mary Mostafanezhad, University of Hawai'i at Manoa

**8:00** Mimi Sheller\*, Drexel University, *'It's Our Paradise, and It's our War Zone': Islands, War Games, and Tourism in the Caribbean and the Pacific.*

**8:20** Harnng Luh Sin\*, National University Of Singapore, *The Tourist is not a White Man.*

**8:40** Roger Norum\*, University of Leeds, *Tourism and the Geopolitical Gaze.*

**9:00** Matilde Cordoba Azcarate\*, University of California, San Diego, *Sand-less beaches: struggling with disaster mapping and transnational building trends in the Mexican Caribbean.*

Discussant(s): Jennie Germann Molz, College of the Holy Cross

## 1198. From sustainable to critical transport studies: a global perspective I

Room: New Hampshire, Marriott, Fifth Floor (Paper Session)

ORGANIZER(S): Wojciech Koblowski, Vrije Universiteit Brussel; Kobe Boussauw, Ghent University - Geography Department

CHAIR(S): Kobe Boussauw, Ghent University - Geography Department

**8:00** Mathieu Strale\*, Universite Libre de Bruxelles - IGEAT Institut de Gestion de l'Environnement et d'Amenagement du Territoire, *Metropolitan mobility policies and practices from a critical perspective: the case of Brussels.*

**8:20** Lela Rekhviashvili, Dr.\*, Leibniz Institute for Regional Geography; Wladimir Sgibnev, Leibniz Institute for Regional Geography, *Demonised, but dominant. Discussing regimes of regulation, informality and labour through the lens of the marshrutka mobility phenomenon.*

**8:40** Hala El Moussawi\*, *Informal public transport and the Right to the city: A case from Beirut, Lebanon.*

**9:00** Wojciech Koblowski\*, Vrije Universiteit Brussel, *How to research critical transport policies and practices? Revealing contradictions and paradoxes of free public transport..*

## 1199. Privatisation, the New Contractualism and the Governance of Contemporary Cities - Part I

Room: Vermont, Marriott, Fifth Floor (Paper Session)

ORGANIZER(S): Martijn Van Den Hurk, University of Amsterdam; Tuna Tasan-Kok, TUDelft; Mike Raco, University College London

CHAIR(S): Tuna Tasan-Kok, TUDelft

Introducer: Tuna Tasan-Kok

**8:05** Benjamin Peter Clifford\*, University College London; Zann Gunn, Newcastle University; Malcom Tait, University of Sheffield; Geoff Vigar, Newcastle University, *Acting in the public interest? Spatial Planning and the future of public service professional labour.*

**8:25** Orly Linovski\*, University of Manitoba, *Shifting Agendas: Private Consultants and Public Planning Policy.*

**8:45** Tuna Tasan-Kok\*, University of Amsterdam; Martijn Van Den Hurk\*, University of Amsterdam, *Private sector involvement in urban regeneration: Changing nature of urban contractualism in the Netherlands.*

**9:05** Robert W. Lake\*, Rutgers University, *Privatization of Urban Governance and the New Class Structure of Social Impact Finance.*

Discussant(s): Mike Raco, University College London

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## 1201. Dynamics of Coupled Natural and Human Systems Panels: Models, Feedback, Analyses, and Outcomes (II) (Sponsored by Human Dimensions of Global Change Specialty Group)

Room: Room 101, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Chuan Liao, University of Michigan; Arun Agrawal, University of Michigan

CHAIR(S): Arun Agrawal, University of Michigan

10:00 Maria Fernandez-Gimenez\*, Colorado State University, *Developing a Rigorous Evidence Base for Community-based Rangeland Management in Mongolia: Iterative Evolution of Conceptual and Empirical Models of CHANS Dynamics.*

10:20 Sui Chian Phang\*, The Ohio State University; Michael Durand, The Ohio State University; Alfonso Fernandez, The Ohio State University; Ian Hamilton, The Ohio State University; Sarah Laborde, The Ohio State University; Bryan Mark, The Ohio State University; Asmita Murumkar, The Ohio State University; Apoorva Shastry, The Ohio State University; Mark Moritz, The Ohio State University, *Putting the numbers in coupled human and natural systems conceptual models.*

10:40 Chuan Liao\*, University of Michigan; Suhyun Jung, University of Michigan; Daniel G Brown, University of Michigan; Arun Agrawal, University of Michigan, *Can Large-Scale Land Transactions Lead to Social-Economic-Ecological Synergy? Divergent Outcomes in Ethiopia.*

11:00 Pamela Jagger, PhD\*, University of North Carolina at Chapel Hill; Robert Bailis, PhD, SEI; Andrew Grieshop, PhD, North Carolina State University; Jason West, PhD, University of North Carolina at Chapel Hill; Jared Bowden, PhD, University of North Carolina at Chapel Hill; Adrian Ghilardi, PhD, UNAM; Ther Aung, PhD, University of North Carolina at Chapel Hill, *Energy Transitions and Environmental Change in East and Southern Africa's Coupled Human, Terrestrial, and Atmospheric Systems.*

Discussant(s): Conghe Song, Univ of North Carolina at Chapel Hill

## 1202. Affective Architectures Part II: more-than-representational approaches to heritage

Room: Room 102, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Jacquelyn Micieli-Voutsinas, Wilfrid Laurier University

CHAIR(S): Jacquelyn Micieli-Voutsinas, Wilfrid Laurier University

10:00 Jessica Shapiro\*, Skidmore College, *The Universal Survivor: Deconstructing Museum Narratives at the National September 11 Memorial & Museum.*

10:20 Christopher W. Post\*, Kent State University, *Thoughts on Affective Commemoration from a Pedagogical Perspective.*

10:40 Jason Nu\*, University of Wisconsin - Madison, *Wonder in the Windy City: How Chicago Architecture Foundation Tours Impress.*

11:00 Julia Kelly Cavicchi\*, Skidmore College, *Embodiment and Emergent Perspectives in the National 9/11 Memorial & Museum.*

11:20 Alison McCleery\*, Edinburgh Napier University, Edinburgh; Kirstie Jamieson, Dr, Edinburgh Napier University, *Theorising the Affective Registers of Intangible Cultural Heritage.*

## 1204. Knowledge Production: Means and Applications (Sponsored by Environmental Perception and Behavioral Geography Specialty Group)

Room: Room 104, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): RDK Herman, National Museum of the American Indian

CHAIR(S): Catherine M. Ashcraft, University of New Hampshire

10:00 Jiwon Lee\*, Seoul National University, *Regional*

*intermediaries as a driving force of knowledge creation for establishing a creative milieu: Empirical evidence from the Korean arts and cultural ecosystem.*

10:20 Emmanuel Roux\*, University of Grenoble Alps, France, *Territorial knowledge in urban and territorial planning.*

10:40 Quentin Marron\*, University of Grenoble Alps, France; Emmanuel Roux\*, University of Grenoble Alps, France, *Places and roles of Living Labs in French cities.*

11:00 Kirsten Maclean\*, CSIRO; Cathy Robinson, CSIRO, *Risky business on Indigenous country: Pests, plants and partnerships..*

11:20 Catherine M. Ashcraft, PhD\*, University of New Hampshire; Weiwei Mo, PhD, University of New Hampshire; Natallia Leuchanka, University of New Hampshire; Cuihing Song, University of New Hampshire, *System Dynamics and Role-Play Simulations: Acting and modeling to co-produce knowledge.*

## 1205. Global Carceral Geographies I: Carceral Experiences (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme, Political Geography Specialty Group, Ethics, Justice, and Human Rights Specialty Group, Sexuality and Space Specialty Group)

Room: Room 105, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Austin Kocher, The Ohio State University, Department of Geography; Dominique Moran, University of Birmingham; Nick Gill, Exeter University

CHAIR(S): Dominique Moran, University of Birmingham

10:00 Anna Schliehe, Dr\*, University of Cambridge, *Dialogues across carceral space: comparative research and the case of penal exceptionalism.*

10:20 Anaïs Tschanz\*, University of Montreal, *Carceral (im) mobilities and inmate experience of distance in the Canadian province of Quebec..*

10:40 Nicolas Sallée\*, Université de Montréal, *Imprisoned rehabilitation? The carceral nature of a Quebec secure juvenile facility..*

11:00 Jennifer Turner\*, University of Liverpool; Dominique Moran\*, University of Birmingham; Yvonne Jewkes, University of Brighton, *Serving time with a sea view: escaping prison via therapeutic blue space.*

Discussant(s): Dominique Moran, University of Birmingham

## 1206. Education and Indigenous Knowledge: Closing the Gap? (Sponsored by Geography Education Specialty Group, Indigenous Peoples Specialty Group)

Room: Room 107, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): RDK Herman, National Museum of the American Indian

CHAIR(S): N.C. Christopher Couch, University of Massachusetts - Amherst

10:00 Laura Schaeffli\*, Queen's University; Anne Godlewska, Queen's University; John Rose, Queen's University; Christopher Lamb, Queen's University, *The Flavours of Indigenous Marginalization in Provincial Education In Canada.*

10:20 Pamela Ann Esterhuysen, MSc (HEdD) Unisa\*, The Wykeham Collegiate, *Looking at the importance of using local indigenous knowledge in fieldwork to develop spatial and metacognition in South African students.*

10:40 Adam McKay\*, Mushkegowuk Council, *Cree Geomatics: Using Geomatics to Close the Indigenous Education Funding Gap in Ontario.*

11:00 N.C. Christopher Couch\*, University of Massachusetts - Amherst, *Mapping the Circulation of Colonial Indigenous Language Catechisms in New England.*

## 1207. Comparative geographies of development (Sponsored by Africa Specialty Group)

Room: Room 108, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Joseph Terzungwe Zume, Shippensburg



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University

CHAIR(S): Annalyn Bachmann, Brandeis University

**10:00** Karen Wells\*, Birkbeck, University of London; Jasmine Gideon, Birkbeck, University of London; Lili Harris, Plan International, *Resisting Gender Norms: findings from a longitudinal study of girls in 9 countries in Asia, Africa and Latin America..*

**10:20** Sean M. McDonald\*, Bentley University; Alistair H McPherson, Ph.D., Bentley University; Kyla Reslock, Bentley University, *'Strategies for meeting the Education Challenge in Development: early evidence from an intervention on school inspection and advisory systems in Malawi.*

**10:40** Comfort Ogunleye-Adetona, PhD\*, Educational Institution, *Managing suburban Sprawl in Ghana: The Case Study of Amamoma, Kwaprow and Akotokyir in the Cape Coast Metropolis, Ghana.*

**11:00** Alex Barimah Owusu\*, University of Ghana, *Understanding Poverty, Marginality And Land Degradation Nexus In The Upper East Region, Ghana: A Geospatial Approach.*

**11:20** Annalyn Bachmann\*, Brandeis University Heller School, *The Socioeconomic Divide: The Differences Between Development in Southeast Asia and Sub-Saharan Africa.*

## **1208. A Just Transition? Critical Geographies of Appalachia**

Room: Room 109, Hynes, Plaza Level (Panel Session)

ORGANIZER(S): Martina Angela Caretta, West Virginia University; Bradley Wilson, West Virginia University  
CHAIR(S): Martina Angela Caretta, West Virginia University  
Panelists: Chad Newbrough Steacy, University of Georgia; Katherine Luke, University of Georgia; Bradley Wilson, West Virginia University; Peter M. Butler, West Virginia University; Shaunna Barnhart, Bucknell University

## **1209. Deleuze and Guattari's Marxist political philosophy in geographical thought**

Room: Room 110, Hynes, Plaza Level (Panel Session)

ORGANIZER(S): Curtis Pomilia, University of Kentucky; Daniel G. Cockayne, University of Waterloo  
CHAIR(S): Susan Ruddick, University of Toronto  
Introducer: Daniel G. Cockayne  
Discussant(s): Keith Woodward, University of Wisconsin  
Panelists: Arun Saldanha, University of Minnesota - Minneapolis; Curtis Pomilia, University of Kentucky; Kai A. Bosworth, University of Minnesota - Minneapolis; Abraham Brookes Weil

## **1210. Disturbance, Disturbance Interactions, and Climate as Drivers of Vegetation Change II (Sponsored by Biogeography Specialty Group)**

Room: Room 111, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Alan H. Taylor, Pennsylvania State University; Dominik Kulakowski, Clark University  
CHAIR(S): Alan H. Taylor, Pennsylvania State University  
**10:00** Lucas Harris\*, Pennsylvania State University; Alan H Taylor, Pennsylvania State University, *Self-reinforcing and self-moderating fire effects in reburned areas within the Rim Fire.*  
**10:20** Christopher Alan Williams\*, Clark University; Huan Gu, Clark University; Richard MacLean, Clark University; Jeffrey G Masek, NASA GSFC Biospheric Sciences Laboratory; G. James Collatz, NASA GSFC Biospheric Sciences Laboratory, *Carbon in US Forests: Drivers from Natural Disturbance, Management, and Enhanced Growth Assessed with Remote Sensing, Inventory, and Modeling Approaches.*  
**10:40** Eraldo A.T. Matricardi\*, University of Brasilia; Olivia Bueno Costa, University of Brasilia; Marcos A Pedlowski, Norte Fluminense Darcy Ribeiro State University; David L Skole, Michigan State University,

*A comprehensive analysis of selective logging and forest fires in the Brazilian Amazon.*

**11:00** Huan Gu\*, Clark University; Yu Zhou, Clark University; Christopher A. Williams, Clark University, *Fine-scale (30 m) mapping of annual carbon stocks and fluxes for southeastern US forests using remote sensing, inventory data, and a carbon cycle model.*

**11:20** Sujan Parajuli\*, South Dakota State University; Darrell Napton, South Dakota State University, *Modeling the Movement of Mountain Pine Beetle in the Black Hills..*

## **1212. Cities in Three Dimensions: Vertical Urban Geographies**

Room: Room 201, Hynes, Second Level (Paper Session)

ORGANIZER(S): Ursula Lang, University of Glasgow; I-Chun Catherine Chang, Macalester College  
CHAIR(S): Ursula Lang, University of Glasgow  
**10:00** Aaron Shapiro\*, University of Pennsylvania, *The Mezzanine.*  
**10:20** Sophie-May Kerr\*, University of Wollongong, *Parenting within close proximity to others: apartment materiality and the politics of sound.*  
**10:40** Charity Edwards\*, University of Melbourne / Monash University, *Deep verticality: the ocean extends our urban z-axis downwards.*  
**11:00** Maurizio Marinelli\*, UCL Institute for Global Prosperity, *Hong Kong 2017: Verticality, Horizontality, and Increasing Precarity.*

## **1213. Checking in on the failures and accomplishments of green capitalism**

Room: Room 202, Hynes, Second Level (Panel Session)

ORGANIZER(S): Patrick Bigger, Lancaster University; Jessica Dempsey, University of Victoria  
CHAIR(S): Jessica Dempsey, University of Victoria  
Panelists: Karen Bakker, University of British Columbia; Daniel Suarez, University of California, Berkeley; Rebecca Lave, Indiana University; Gregory Simon, University of Colorado Denver; Brett Sylvester Matulis, University of Edinburgh

## **1214. Career Mentoring A (Sponsored by AAG Careers and Professional Development Theme)**

Room: Room 203, Hynes, Second Level (Panel Session)

ORGANIZER(S): Mark Revell, American Association of Geographers  
CHAIR(S): Mark Revell, American Association of Geographers  
Discussant(s): Denise Blanchard, Texas State University; Michael R. Ratcliffe, U.S. Bureau Of the Census; John Sauvageau, Santander Bank, N.A.; Heather R. Houlton, American Geosciences Institute; Marcello Graziano, Central Michigan University; Lucy Stanfield, US Environmental Protection Agency

## **1215. Networking: Promoting Yourself by Making Connections that Count (Sponsored by AAG Careers and Professional Development Theme)**

Room: Room 204, Hynes, Second Level (Panel Session)

ORGANIZER(S): Niem Huynh, American Association of Geographers; Angela Rogers, Pennsylvania State University  
CHAIR(S): Niem Huynh, American Association of Geographers  
Introducer: Niem Huynh  
Panelists: Angela Rogers, Pennsylvania State University

## **1216. Open Source Software in Geography: Theories, Developments, and Pathways toward Openness I (Sponsored by Cyberinfrastructure Specialty Group, Applied Geography Specialty Group, Communication Geography Specialty Group)**

Room: Room 205, Hynes, Second Level (Paper Session)

ORGANIZER(S): Sam Stehle, The Pennsylvania State University; Matthew Michael Haffner, Oklahoma State

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University - Stillwater, OK; Jesse Piburn, Oak Ridge National Laboratory

CHAIR(S): Sam Stehle, The Pennsylvania State University

**10:00** David Haynes\*, University of Minnesota, *Terra Populus Open Source Software Stack*.

**10:20** Matthew Michael Haffner\*, Oklahoma State University - Stillwater, OK, *The development of 'shp2nosql': Command line tools for spatial data and NoSQL databases*.

**10:40** Timothy L. Hawthorne\*, University of Central Florida; Nicholas Altizer, University of Central Florida; Christine Munisteri, Citizen Science GIS; Emily Clark, University of Central Florida; Jane Salazar, University of Belize; Antonio Cano, University of Belize, *The Open Reef Mapping Society: Exploring the Belize Barrier Reef with Drones and Citizen Science GIS*.

**11:00** Jeremy Auerbach\*, University of Tennessee, *A new tool for geographic collaboration in a connected scientific world*.

Discussant(s): Grant McKenzie, University of Maryland, College Park

**1217. Information geographies: Social dimensions of Web 2.0 cartographies II (Sponsored by Geographic Information Science and Systems Specialty Group, AAG Mapathon, Cartography Specialty Group, Communication Geography Specialty Group)**

Room: Room 206, Hynes, Second Level (Paper Session)

ORGANIZER(S): Sterling Quinn, Central Washington University; Christian Bittner

CHAIR(S): Christian Bittner

**10:00** Michael A. Davis\*, Kutztown University, *Level 2: Ingress in Geography*.

**10:20** Rob Aitken\*, University of Alberta, *Mapping Finance and its Elsewhere*.

**10:40** Finn Dammann\*, University of Erlangen-Nuremberg, *Language Geography in OpenStreetMap - A geolinguistic analysis*.

**11:00** Andrea Ballatore\*, GEDS, Birkbeck, University of London; Jamal Jokar, Aalborg University, Copenhagen, *Googling places: The role of search engines in the access to volunteered geographic information*.

**11:20** Christian Bittner\*, University of Erlangen-Nürnberg, *Social structures of Wikimapia*.

**1219. Island Issues: Food, Water and Geopolitics**

Room: Room 210, Hynes, Second Level (Paper Session)

ORGANIZER(S): RDK Herman, National Museum of the American Indian

CHAIR(S): Valerie Rizzuto-Sadhoo

**10:00** Francisco J. Laso, M.Sc.\*, University of North Carolina - Chapel Hill, *Food Security, Ecotourism, & Conservation in the Galapagos Islands*.

**10:20** Saangkyun Yi\*, Northeast Asian History Foundation; Young-Hoon Kim, Korea National University of Education, *Map trade and the discovery of the Far East: a case study of the islands in the eastern sea of Korea peninsular*.

**10:40** Jiyeon CHOI\*, Korea Maritime Institute, *Islands strategic management from the importance of geopolitical perspectives in Korea..*

**11:00** Pia Lord\*, The Pia Lord Company, *Canary Islands Paradise in Peril?*

**11:20** Valerie Rizzuto-Sadhoo\*, University of South Florida School of Geosciences; Kamal Alsharif, University of South Florida School of Geosciences, *How Can Water Policy Help Offset Food Cost in Mauritius?*

**1221. Food hubs building sustainable communities: Activist-scholar roundtable (Sponsored by Geographies of Bread and Water in the 21st Century Featured Theme, Geographies of Food and Agriculture Specialty Group)**

Room: Room 301, Hynes, Third Level (Panel Session)

ORGANIZER(S): Colleen Hammelman

CHAIR(S): Charles Zalman Levkoe, Wilfrid Laurier University  
Panelists: James Harrison, The Food Project; Phil Mount, Wilfrid Laurier University; Ann Karlen, Executive Director, Fair Food; Faculty Director, University of Vermont Food Hub; Luke Craven, University of Sydney; Gavin Dandy, Everdale Organic Farm and Environmental Learning Centre

**1222. New/Critical Approaches to Water and Food Security 2: Food Security (Sponsored by Cultural and Political Ecology Specialty Group, Human Dimensions of Global Change Specialty Group, Geographies of Bread and Water in the 21st Century Featured Theme, Geographies of Food and Agriculture Specialty Group)**

Room: Room 302, Hynes, Third Level (Paper Session)

ORGANIZER(S): Lily A. House-Peters, California State University, Long Beach; Laurel Bellante; Sarah Kelly-Richards, School of Geography and Development, University of Arizona

CHAIR(S): Laurel Bellante

**10:00** Timothy Gorman\*, Cornell University, *Plan-Makers and Plan-Breakers: The Contentious Politics of Food Security and Climate Change Adaptation in the Mekong Delta*.

**10:20** Melanie Malone\*, Portland State University, *A Critical Physical Geographical Analysis of Conservation Management Practices: Implications for Soil Quality, Water Quality, and Food Security*.

**10:35** Carol Morris, PhD\*, University of Nottingham, *The imagined spatialities of UK food security research: an examination of a national research programme and research institution initiatives*.

**10:50** Brian Dowd-Urbe\*, University of San Francisco; Moussa Sanon, INERA; Carla Roncoli, Emory University; Ben Orlove, Columbia University, *Growing demands: the politics of the water/food security nexus in Burkina Faso*.

**11:05** Ilona Moore\*, Bucknell University, *Food security as biopolitics: tracing food and entitlement logics*.

Discussant(s): Laurel Bellante

**1223. Health and Medical Geographies: Patterns and Logistics**

Room: Room 303, Hynes, Third Level (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Kathryn Grace

**10:00** Elaine Lesage-Mann\*, INRS Urbanisation Culture Société; Philippe Apparicio, INRS Urbanisation Culture Société, *Geography of discarded needles in the Centre-Sud neighbourhood of Montreal*.

**10:20** Harrison Cole\*, University of Kentucky, *The Logistics of Organ Transplantation*.

**10:40** Gabriele Richardson\*, Louisiana State University, *New Orleans Climate and Environmental Conditions as Possible Mortality Factors in the 1878 Yellow Fever Outbreak*.

**11:00** David Ferring\*, Rutgers University, *"Death traps & breeding places": Multispecies health in Ghana's small-scale gold mining landscapes*.

**11:20** Kathryn Grace\*, University of Minnesota; Frank Davenport, UCSB; Audrey Dorelien, University of Minnesota, *The impact of climate and food insecurity on miscarriage, stillbirth and neonatal mortality in Africa*.

**1224. Atmospheric Politics: Asymmetrical Warfare from Above**

Room: Room 304, Hynes, Third Level (Paper Session)

ORGANIZER(S): Caren Kaplan, University of California - Davis

CHAIR(S): Caren Kaplan, University of California - Davis

**10:00** Lisa Parks\*, MIT, *The Politics of Orbital Platforms*.

**10:20** Caren Kaplan\*, University of California - Davis, *Atmospheric Intelligence: From Coup d'oeil to ISR*



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## Visualization.

**10:40** Daniel Grinberg\*, University of California, Santa Barbara, *Tracking Movements: Aerial Surveillance, Social Activism, and the Freedom of Information Act.*

**11:00** Andrea Miller\*, University of California - Davis, *Atmospheric Policing and Traces of War in Atlanta, GA.*

Discussant(s): Marijn Nieuwenhuis, University of Warwick, PAIS/ SOAS

## **1225. The Climate-Land Use-Conflict Nexus in Africa 2 (Sponsored by Cultural and Political Ecology Specialty Group, Human Dimensions of Global Change Specialty Group, Africa Specialty Group)**

*Room:* Room 305, Hynes, Third Level (Paper Session)

ORGANIZER(S): Jürgen Scheffran, Institute of Geography, University of Hamburg; Peter Michael Link, University of Hamburg

CHAIR(S): Peter Michael Link, University of Hamburg

**10:00** Jürgen Scheffran\*, Institute of Geography, University of Hamburg, *Climate change and land-use conflict in Africa.*

**10:20** Zongho Kom\*, University of Venda; Nthaduleni Samuel Nethengwe, University of Venda; Hector Chikore, University of Venda, *The Interaction between Climatic Shocks and Communal Farming: A Case of Smallholder Farmers in Vhembe District, South Africa..*

**10:40** Fernando De Sales\*, San Diego State University; Yongkang Xue, University of California, Los Angeles; Gregory Okin, University of California, Los Angeles; Kebonye Dintwe, University of California, Los Angeles, *Assessing the Effects of Burned Areas on the Northern and Southern African Seasonal Climates: a Regional Modeling Study.*

**11:00** Maryia Bakhtsiyarava\*, University of Minnesota; Minnesota Population Center; Kathryn Grace, University of Minnesota; Raphael Nawrotzki, University of Minnesota, *A Comparative Analysis of the Relationship between Climate Change, Agricultural Specialization and Children's Health: Evidence from Kenya and Mali.*

## **1226. Do Your Work: On Solidarity and Scholarship II (Sponsored by AAG Careers and Professional Development Theme)**

*Room:* Room 306, Hynes, Third Level (Panel Session)

ORGANIZER(S): Eric Goldfischer, University of Minnesota - Minneapolis; Leah Montange, University of Toronto

CHAIR(S): David K. Seitz, University of Toronto

Introducer: David K. Seitz

Discussant(s): Rachel Silvey, U. of Toronto

Panelists: Carrie Mott, Rutgers University; Jeff Rose, University of Utah; Yui Hashimoto, University of Wisconsin - Milwaukee

## **1228. Contextualizing the effects of the European Migration "Crisis" (Sponsored by Political Geography Specialty Group, Cultural Geography Specialty Group, European Specialty Group)**

*Room:* Room 308, Hynes, Third Level (Paper Session)

ORGANIZER(S): Kara Dempsey, Appalachian State University; Gabriel Popescu, Indiana University South Bend

CHAIR(S): Kara Dempsey, Appalachian State University

**10:00** Kara Dempsey\*, Appalachian State University, *Experiences of violence along migration routes and in refugee camps: the European Migration Crisis.*

**10:20** Jared Keyel\*, Virginia Tech, *Forces of Nature: Europe, Migrants, and Metaphors.*

**10:40** Gabriel Popescu, Associate Professor\*, Indiana University South Bend, *Digital topologies of migration in Europe.*

**11:00** Paul C. Adams, PhD\*, University of Texas at Austin, *Performing Europe through Migration Maps.*

**11:20** James Wesley Scott\*, University of Eastern Finland; Anna Casaglia\*, University of Eastern Finland, *Interrogating East-West Divergence in Politicizing Europe's Migrant "Crisis".*

## **1229. Room:**

## **Health, Hazards, and Vulnerability**

*Room 309, Hynes, Third Level (Illustrated Paper Session)*

ORGANIZER(S): Program Committee

CHAIR(S): Yelena Ogneva-Himmelberger

**10:00** Lisha Tang\*, College of Resource and Environmental Science, Hunan Normal University; School of Public Policy and Urban Affairs, Northeastern University; Matthias Ruth, School of Public Policy and Urban Affairs, Northeastern University; Qingyun He, College of Resource and Environmental Science, Hunan Normal University, *Comprehensive Evaluation of Trends in Human Settlements Quality in 35 Chinese Cities.*

**10:07** Sotir Shuka\*, *Fire Prevention and Management Tactics.*

**10:14** Chen Kunlun\*, *Spatial Characteristics and Driving Factors of the Provincial Wastewater Discharge in China.*

**10:21** Madilyn Jacobsen\*, Clark University; Deb Martin, M.A., Ph.D, Clark University Graduate School of Geography; Laurie Ross, M.A., Ph.D, Clark University Department of International Development, Community and Environment, *The Impact of Public Transportation on the Lives of Youth in Worcester, MA.*

**10:28** Andrea Viazanko\*, Indiana University Of Pennsylvania, *Spatial profile of illegal waste sites in Pennsylvania.*

**10:35** Madelyne Marie Brown\*, Bucknell University; Greg Miller, Bucknell University; Michelle Beiler, Ph.D., P.E., LEED AP, Bucknell University; Janine Glathar, Bucknell University, *GIS Applications to Analyze Transportation Networks, Recreational Land Uses, and Public Health Metrics.*

**10:42** Qi Huang\*, Lizhen Liu; Yongjiu Cai; Junfeng Gao, *Preliminary study on B-IBI for the health assessment in the Poyang Lake, China.*

**10:49** Tarmizi Amin\*, University of Manchester, *Housing, Heat and Health in Changing Climate: What Can We Learn From Traditional Space Cooling Practice in Malaysia?.*

**10:56** David Berrigan, PhD MPH\*, U.S. National Institutes of Health - National Cancer Institute; Robert Korycinski, BA, NCI; Michelle Cawley, MLS, ICF International; Bonny Bloodgood, MA, ICF International; Bethany Tennant, PhD, ICF International, *Geospatial, Contextual, and Multilevel Research at NCI-Designated Cancer Centers.*

**11:03** Tommi L. Gaines, DrPH\*, University of California San Diego; Peter Davidson, PhD, University of California San Diego; Karla Wagner, PhD, University of Nevada Reno; Marta Jankowska, PhD, University of California San Diego, *Location of Substance Abuse Treatment Services as it Relates to the Demographic Composition of San Diego County Neighborhoods.*

**11:10** Bin Wu\*, East China Normal University; Hongxing Liu, University of Cincinnati; Bailang Yu, East China Normal University; Jianping Wu, East China Normal University, *Object-based tracking and analysis of spatio-temporal evolution of drought hazard in California.*

**11:17** Bo Liang\*, Beijing Normal University; Lianyou Liu, Beijing Normal University; Yanyan Yang, Beijing Normal University; Mengdi Zhao, Beijing Normal University; Jiadong Dai, Beijing Normal University; Xiyang Zuo, Beijing Normal University, *Morphology and Distribution of Landslides Induced By Wenchuan Earthquake.*

**11:24** Yang Shan Li\*, Cheng chang xiu, *Space-time analyze the international natural disasters events for a century.*

**11:31** Yelena Ogneva-Himmelberger, Ph.D.\*, Clark University,

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*Birth Weight in Massachusetts: Spatial variation and Associations with Socio-demographic and Environmental Factors.*

**1230. Economies of Energy Transition**

Room: Room 310, Hynes, Third Level (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Stephen J. Stadler, Oklahoma State University

**10:00** Hana Kim\*, Seoul National University, *Seoul Energy Self-sufficient Villages as a Model for Energy Transition.*

**10:20** Li Ma\*, Institute of Geographic Sciences and Natural Resources Research, CAS, *The spatial structure and environmental impact of Chinese interprovincial electricity flow.*

**10:40** Minji Jeong\*, University of Maryland, *Global Renewable Energy Market and the Evolution of National Policies.*

**11:00** Joohee Lee\*, University of Delaware, *Investigation of methods to measure inequalities in the geography of energy production and consumption.*

**11:20** Stephen J. Stadler, PhD\*, Oklahoma State University; J Scott Greene, PhD, University of Oklahoma; Lauren Wood, Oklahoma State University, *A Geography of Exclusion: Potential Windpower Capacity Losses Through State Zoning.*

**1231. Transcendental spaces 2**

Room: Room 311, Hynes, Third Level (Paper Session)

ORGANIZER(S): Francesca Fois, Aberystwyth University

CHAIR(S): Francesca Fois, Aberystwyth University

**10:00** Rachel Jane Liebert, PhD\*, Postdoctoral Fellow, Public Science Project, City University of New York, *Space-making as a means to unsettle the psyche.*

**10:20** Sandra Wallenius-Korkalo\*, University of Lapland, *(Dis) Ordered Bodies: Politics of Representation and the Materiality of Religious Belonging.*

**10:40** Charles Carlin, M.A.\*, University of Wisconsin-Madison, *Ceremony and the Therapeutics of Subjectivity.*

**11:00** Francesca Fois\*, Aberystwyth University, UK, *The transcendental scale: exploring a shamanic community through spiritual embodied methods.*

Discussant(s): Justin Tse, University of Washington

**1232. Drivers of Urbanization Today and Tomorrow - Part 2 cases**

Room: Room 312, Hynes, Third Level (Paper Session)

ORGANIZER(S): Panu Lehtovuori, Tampere University of Technology

CHAIR(S): Damiano Cerrone, Tampere University of Technology (TUT)

**10:00** Kim Kullman\*, The Open University, *Sameness in change: temporal politics in urban prototyping.*

**10:20** Jens Brandt\*, Tampere University of Technology, School of Architecture, *From urban pedagogy to the pedagogy of urbanity.*

**10:40** Hanna Kaarina Heino\*, University of Turku, *Urban social futures, demographic shift and immigration phenomena in the cities of Finland.*

**11:00** Juliane Ribbeck\*, BTU Cottbus-Senftenberg, *Digitalization as a hype in urban development.*

**11:20** Damiano Cerrone\*, Tampere University of Technology (TUT), *Urban-meta morphology. Studying activity patterns in 33 Russian monofunctional cities..*

**1233. What Should Radical Politics Mean Today?**

Room: Room 313, Hynes, Third Level (Panel Session)

ORGANIZER(S): Mark Purcell, University of Washington;

Patricia Burke Wood, York University

CHAIR(S): Mark Purcell, University of Washington

Discussant(s): AbdouMaliq Simone; Jen Jack Gieseeking, Trinity College

Panelists: James DeFilippis, Rutgers University; Ayona Datta, King's College London; Erik Swyngedouw, University of Manchester; Patricia Burke Wood, York University; Kate Derickson, University of Minnesota

**1234. Smart Grid/Smart Cities (II): Experimenting with Urban Reconfiguration**

Room: Suite 300, Hynes, Third Level (Paper Session)

ORGANIZER(S): Harriet Bulkeley, University of Durham;

Jochen Monstadt, Darmstadt University of Technology; Simon Marvin, University of Sheffield

CHAIR(S): Rob Raven, Utrecht University

**10:00** Anthony M Levenda, PhD\*, Arizona State University, *Experiments in Smart Urbanism: Mobilities, Visions, and Politics.*

**10:20** Suyash Jolly, Dr.\*, KTH Royal Institute of Technology, *From multiple promises to implementation bottlenecks: lessons from ongoing smart grid demonstration projects in India.*

**10:40** Harriet Bulkeley\*, University of Durham; Simon Marvin, University of Sheffield; Lindsay Qianqing Mai, Durham University; Christian Hartmann, Joanneum Research; Marija Breittfuss-Loidl, Joanneum Research; Angelika Sauer, Joanneum Research, *Urban Living Laboratories and the Smart Grid City.*

**11:00** Svenja Seelinger\*, Darmstadt University of Technology; Jochen Monstadt\*, Utrecht University, *Overcoming Urban Gridlock? Aligning Electricity and Mobility Interfaces in the San Francisco Bay Area.*

**11:20** Pauline M McGuirk, PhD\*, University of Wollongong, NSW, Australia; Robyn Dowling, PhD, Sydney University; Chantel Carr, University of Wollongong, *Urban built environments and smart/energy transition intersections.*

**1238. Editor Meets Critics: The Historical Atlas of Maine (Sponsored by Historical Geography Specialty Group, Cartography Specialty Group)**

Room: Independence East, Sheraton, Second Floor (Panel Session)

ORGANIZER(S): Anne Kelly Knowles, University of Maine

CHAIR(S): Diana Stuart Sinton, UCGIS

Introducer: Diana Stuart Sinton

Panelists: William Wyckoff, Montana State University; Ronald E. Grim, Norman B. Leventhal Map Center, Boston Public Library; Alexander M. Tait, National Geographic Society; Anne Kelly Knowles, University of Maine

**1239. Radical, rigorous, risky: Re-imagining knowledge production**

Room: Independence West, Sheraton, Second Floor (Panel Session)

ORGANIZER(S): Amber J. Bosse, University of Kentucky;

Carolyn Finney, University of Kentucky

CHAIR(S): Amber J. Bosse, University of Kentucky

Discussant(s): Carolyn Finney, University of Kentucky

Panelists: Jhana Senxian, Sustainability Guild International

**1240. The Visible and Invisible in Rural Communities 2: Institutions, Governance, and Identity (Sponsored by Rural Geography Specialty Group)**

Room: Liberty B, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Cheryl Morse, University of Vermont; Karin Patzke, Rensselaer Polytechnic Institute

CHAIR(S): Karin Patzke, Rensselaer Polytechnic Institute

**10:00** Erika Nagy\*, Hungarian Academy of Sciences; Gabor Nagy, Hungarian Academy of Sciences, *The invisible mechanisms of fixing socio-spatial marginalities - An account of changing state agency in the European periphery.*

**10:20** Agata Bernadeta Blaszczyk-Sawyer\*, Polish University Abroad in London/University College London, *The experience of resettlement - examining national and cultural identity of the Polish Diaspora after the Second World War /Session title: The Visible and Invisible in Rural Communities.*

**10:40** Pia Heike Johansen\*, University of Southern Denmark, *Informal and invisible - the case of involving rural*

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*communities in a land consolidation program in rural Denmark.*

Discussant(s): Cheryl Morse, University of Vermont

**1241. Migration and Internationalization 2: Internationalization in Higher Education and International Knowledge Transfer (Sponsored by Population Specialty Group, Ethnic Geography Specialty Group)**

*Room:* Liberty C, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Heike Alberts, University of Wisconsin-Oshkosh; Yvonne Riano, Institute of Geography, University of Neuchâtel, Switzerland; Micheline Van Riemsdijk, University of Tennessee

CHAIR(S): Micheline Van Riemsdijk, University of Tennessee

**10:00** Heike C. Alberts\*, University of Wisconsin-Oshkosh, *Support for International Faculty in the United States.*

**10:20** Kevin Shih\*, Rensselaer Polytechnic Institute, *The Impact of International Students on US Graduate Education.*

**10:40** Valeria Aman\*, DZHW, *To what extent does international mobility of scientists foster knowledge transfer?.*

**11:00** Kirsten Heusgen\*, Fulda University of Applied Sciences, Germany, *Between return and mobility - Transnational Mobility of young scholars from Sub-Saharan African, Asien und Latin America Countries.*

**11:20** Peter A. Wood\*, University College London; John Salt, Department of Geography, University College London, *Staffing Uk International Branch Campuses.*

**1242. Economic Geography II - Knowledge and Product Spaces, Smart Specialization, and the Evolution of Economies (Sponsored by Economic Geography Specialty Group)**

*Room:* Back Bay Ballroom A, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Dieter Franz Kogler, University College Dublin; Thomas Kemeny, University of Southampton; Pierre-Alexandre Bolland, Utrecht University

CHAIR(S): Thomas Kemeny, University of Southampton

**10:00** Bjorn T. Asheim\*, University of Stavanger, Norway; Michaela Trippel, University of Vienna, Austria, *Smart Specialisation - the role of universities: Scandinavian cases.*

**10:20** VARGA ATTILA\*, University of Pecs, *Economic impact assessment of Smart specialization policies with the GMR-Europe model.*

**10:40** Nicola Cortinovis\*, Erasmus University Rotterdam; Frank van Oort, Erasmus University Rotterdam, *Between spilling over and boiling down: regional absorptive conditions for productivity capture from networked R&D in Europe.*

**11:00** Flavio L Pinheiro\*, The MIT Media Lab, Massachusetts Institute of Technology; Aamena Alshamsi, The MIT Media Lab, Massachusetts Institute of Technology; Dominik Hartmann, The MIT Media Lab, Massachusetts Institute of Technology; Cesar Hidalgo, The MIT Media Lab, Massachusetts Institute of Technology, *Evolution of Economies in the Product Space.*

**11:20** Dieter Franz Kogler\*, University College Dublin, *Technology Evolution in Regional Economies (TechEvo).*

**1244. Author Meets Critics: Amy Trauger's We Want Land to Live: Making Political Space for Food Sovereignty (Sponsored by Qualitative Research Specialty Group)**

*Room:* Constitution A, Sheraton, Second Floor (Panel Session)

ORGANIZER(S): Jennifer Fluri, University of Colorado, Boulder; Jason Dittmer, University College London

CHAIR(S): Jennifer Fluri, University of Colorado, Boulder

Discussant(s): Amy Trauger, University of Georgia

Panelists: Annette Desmarais, University of Manitoba; David Meek; Catarina Passidomo, University of Mississippi; Alison Alkon, University of California, Davis

**1245. Data Infrastructures, Nature, and Politics 1 (Sponsored by Cultural and Political Ecology Specialty Group)**

*Room:* Constitution B, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Eric Nost, University of Wisconsin-Madison; Jenny Elaine Goldstein, Cornell University

CHAIR(S): Jenny Elaine Goldstein, Cornell University

**10:00** Zia Mehrabi, PhD\*, University of British Columbia;

Hannah Wittman, PhD, University of British Columbia, *Stewardship science technology for monitoring socio-ecological outcomes of farming practices.*

**10:20** Susanne E. Freidberg\*, Dartmouth College, *Data Flow and Storytelling: The Sociotechnical Infrastructure of Agricultural Supply Chain Sustainability Initiatives.*

**10:40** Ritwick Ghosh\*, Cornell University, *The inevitable bureaucracy of algorithms.*

**11:00** Elizabeth Hare\*, University of California - Santa Cruz, *Actually-Existing Economic Ideologies in Conservation Data Infrastructure.*

**11:20** Kirk Jalbert, Ph.D., M.F.A.\*, FracTracker Alliance, *The Allegheny County Lease Mapping Project: The Power to Plan Through Publicly Accessible Oil & Gas Leasing Data.*

**1248. Human Perspectives of a Changing Arctic (Sponsored by Polar Geography Specialty Group, Indigenous Peoples Specialty Group)**

*Room:* Beacon D, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Emily Francis, Arctic-FROST

CHAIR(S): Jessica K. Graybill, Colgate University

**10:00** Scott R Stephenson\*, University of Connecticut, *Alignment and Divergence of Arctic State Climate Agendas.*

**10:25** Jochen Wirsing\*, University of New Hampshire, *Nunavut's Migration Patterns.*

**10:50** Jason C. Young\*, University of Washington, *Inuit Ikiaqqingni: Digital Absence and Colonialism in the Arctic.*

**11:15** Forrest Leanna Melvin\*, George Washington University; Dmitry Streletskiy, George Washington University; Timothy Heleniak, George Washington University; Nordregio, *Diverse socio-ecological drivers of Alaska Native migration in Arctic Alaska.*

**1249. Mobile Methods in Transport Research II: Space and Society (Sponsored by Urban Geography Specialty Group, Health and Medical Geography Specialty Group, Transportation Geography Specialty Group)**

*Room:* Beacon E, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Geoffrey Andrew Battista, McGill University; Julie Clark, University of Glasgow; Kevin Manaugh, McGill University

CHAIR(S): Julie Clark, University of Glasgow

**10:00** Geoffrey Andrew Battista, PhD Candidate\*, McGill University, *Toward Socializing Walkability: Grounding Pedestrian Assessments in Lived Space.*

**10:20** Julie Gamble, Universidad San Francisco de Quito; Cristen Davalos\*, Universidad San Francisco de Quito, *Circulating in Quito, Ecuador: Informal Transport and Mobile Methods.*

**10:40** Wilbert den Hoed\*, Newcastle University, *Using mixed methods to explore the lived experience of age-friendly cycling.*

**11:00** Alan Latham, PhD\*, University College London; Michael Thomas Nattrass\*, University College London (UCL), *Thinking through cycle infrastructure: The ride-along mobile method and its implications for transport geography.*

**11:20** Samuel Nowak\*, University of California, Los Angeles, *Beyond Mobile Methods in Mobilities Methodologies: A Conjunctural Approach.*



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## 1250. Excavating the Missing Macroeconomic Layer in Geographic and Economic Analysis II (Sponsored by Economic Geography Specialty Group)

Room: Beacon F, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Janelle Knox-Hayes, MIT; Gary Dymski  
CHAIR(S): Gary Dymski

10:00 Elora Lee Raymond\*, Georgia Institute of Technology, *The Impact of Racial Segregation, Income Sorting and Risk Based Mortgage Pricing on Housing Wealth Inequality: A Comparison Between Urban Regions in the United States.*

10:20 David Bieri\*, Virginia Tech, *Lost in Monetary Space? Economic Geographies of Money and Finance without Macrofoundations.*

10:40 Fabio Betioli Contel, Dr.\*, University of Sao Paulo, *Macroeconomics and Brazilian banking topology: how inflation expanded - and reduced ? the size of the national banking network.*

11:00 Jamie Peck\*, University of British Columbia, *Whatever happened to uneven development?*

Discussant(s): Janelle Knox-Hayes, MIT

## 1253. Critical Approaches to Immigration Research 2: Politics of Representation (Sponsored by Ethics, Justice, and Human Rights Specialty Group, Cultural Geography Specialty Group, Ethnic Geography Specialty Group)

Room: Dalton A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Dan T. Johnston, Indiana University

CHAIR(S): Dan T. Johnston, Indiana University

10:00 Ji-Won Hyung\*, Chonnam National University, *Critical Geopolitics of Global Refugee: Global Power and Politics of Difference.*

10:20 Shaowei Ai\*, *Translocality and Trans-regional Culture Identity: The place Construction of Urban Hui Immigrant Community in Hohhot Hui District.*

10:40 Loukia-Maria Fratsea\*, Harokopio University, Department of Geography; Apostolos G. Papadopoulos, Harokopio University, Department of Geography, *Migrant Agency Matters in Times of Precarity: Deciphering the 'Resilience Repertoires' of African Migrants in Greece.*

11:00 Shimantini Shome\*, Concord University; Elisa Sperandio, Concord University, *Media Coverage of the Refugee Crisis in Canada, the United States and Europe: A Comparative Study.*

11:20 Yasna Del Carmen Contreras, DRA\*, Department of Geography, Faculty of Architecture and Planning, University of Chi; Yasna Del Carmen Contreras, Dra, Universidad De Chile, Facultad De Arquitectura, Departamento De Geografía, *Racism And Segregation In Access To Housing For Blacks Latin American Immigrants Living In Central Areas Of Chile.*

## 1255. Improvisation: the art of making do (2) (Sponsored by Political Geography Specialty Group, Economic Geography Specialty Group)

Room: Hampton A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Martin Muller, Universität Zürich

CHAIR(S): Annick Leick

10:00 Afton Clarke-Sather\*, University of Delaware, *Droughts and Markets: Improvisation and the Aleatory Politics of Chinese Agricultural Policy.*

10:20 Alex Andre Moulton, PhD Student\*, Clark University; Jeff Popke, PhD, East Carolina University, *Putting things in order: The improvisational formations and negotiation of global change in Caribbean agriculture..*

10:40 Ottavia Cima\*, University of Fribourg, Switzerland, *Formal cooperatives, informal cooperation. Getting agricultural work done in Soviet and contemporary rural Kyrgyzstan.*

11:00 Martin Muller\*, Universität Zürich, *Hazardous planning: improvising the Olympics.*

Discussant(s): Alex Jeffrey, University of Cambridge

## 1256. Feminist Political Geographies 2: Affect and Emotion (Sponsored by Geographic Perspectives on Women Specialty Group, Cultural Geography Specialty Group)

Room: Hampton B, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Jill Williams, Southwest Institute for Research on Women; Vanessa Anne Massaro, Bucknell University; Caroline Faria, University of Texas - Austin

CHAIR(S): Vanessa Anne Massaro, Bucknell University

10:00 Jill Williams\*, Southwest Institute for Research on Women, *Stay Out, Stay Alive: The Affective Geopolitics of Border Enforcement.*

10:20 Linamar Campos-Flores\*, *E-motions in cyclical-controlled labour migration: (re)embodying Mexican agricultural workers..*

10:40 Jennifer Tucker, PhD\*, University of New Mexico, *Affective Governance: Scales of Political Authority in a Paraguayan Frontier Town.*

11:00 DEVRAN KORAY OCAL\*, University of North Carolina - Chapel Hill, *"Feeling" the State: Affective states and territories of the Turkish-Muslim diaspora in Germany.*

11:20 Banu Gokarikel\*, University of North Carolina, Chapel Hill, *Affective Geopolitics: Entanglements of Geopolitical Lives of Syrian Refugees in Turkey.*

## 1257. Toward New Geographies of the Rural Global South 2 (Sponsored by Cultural and Political Ecology Specialty Group, Rural Geography Specialty Group, Development Geographies Specialty Group)

Room: Gardner A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Pronoy Rai, University of Illinois at Urbana-Champaign; Ryan James Stock, Geography, University Of Illinois, Urbana Champaign - Urbana, IL

CHAIR(S): Pronoy Rai, University of Illinois at Urbana-Champaign

10:00 Clement Oghoro\*, University College London, *An Oil Complex? Land and Oil in Southern Nigeria.*

10:20 Thomas A. Smucker\*, Ohio University; Ben Wisner, Aon Benfield UCL Hazard Centre, *Adaptation of Inland Fishing-Based Livelihoods: Case Study of Communities Surrounding the Nyumba ya Mungu Dam, Tanzania.*

10:40 Ryan James Stock, M.S.\*, Geography, University Of Illinois, Urbana Champaign - Urbana, IL, *The Sun and the Scythe: Gendered Impacts of Solar CDMs on Rural Livelihoods.*

11:00 Jessie K. Luna\*, University of Colorado At Boulder, *Who is capital and who is the peasant? Chains of exploitation and intersectional inequalities in the cotton sector of Burkina Faso.*

Discussant(s): William G. Moseley, Macalester College

## 1258. Cultural Geography

Room: Gardner B, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Pat Burnett, Massachusetts Institute of Technology

10:00 John Haffner\*, Queen's University, *The Revolution Will Not Be Sober: Radical Imagery in the Craft Beer Industry.*

10:20 Päivi Rannila\*, University of Turku; David Delaney, Amherst College, *Law, visual order and the constitution of legal spaces.*

10:40 Laura A Frye-Levine, MS\*, University of Wisconsin - Madison; Michael Mayerfeld Bell, PhD, University of Wisconsin, *A holon ecology approach to the problems of scale and boundaries.*

11:00 Muharem Cerabregu\*, University of Prishtina, Kosovo, *Geographical Origin of Language: Basic Foundation of Cognition Science.*

11:20 Pat Burnett\*, Massachusetts Institute of Technology; Susan Lucas, Montgomery County Community College, *Mobility chains of older populations.*

**WEDNESDAY, April 5 • 10:00 AM - 11:40 AM • 1200****1259. Ecosystem Services, Conservation, Hazards, and more**

Room: *Fairfax A, Sheraton, Third Floor* (Interactive Short Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Alex Marden, University of Texas - Austin

**10:00** Xu Shiluo\*, Institute of Geophysics and Geomatics, China University of Geosciences (Wuhan); Ruiqing Niu, Institute of Geophysics and Geomatics, China University of Geosciences (Wuhan), *Landslide susceptibility mapping based on cost sensitive support vector machines: a case of the Three Gorges area, China.*

**10:08** Kaixiang Zhang\*, China University of Geosciences, *Using Ensemble Learning To Make Susceptibility Assessment of Landslides Triggered by the Lushan Earthquake, April 20, 2013, China.*

**10:16** Veronica A Ritchie, PhD Candidate\*, University of New South Wales, *Samoa, in the line of fire: A traveller's tale 7 years on from the 29 September 2009 tsunami.*

**10:24** Jie Zeng\*, Xiaowei Yao; Cheng Liu, *Interactions between urbanization, land use and ecosystem services in Wuhan City, China.*

**10:32** Yi Zhang\*, China University of Geosciences; yueyan liu, China University of Geosciences, *Spatial temporal evolution of urban eco-efficiency in China.*

**10:40** Douglas A. Shoemaker\*, University of North Carolina - Charlotte, *Civic Technology in the Service of Economic Mobility.*

**10:48** Taly Drezner\*, York University, *Variation in Lifespan Across a Species' Range.*

**10:56** Jessica Karlin Norriss\*, Tufts University, *Decision Support for Wetlands Restoration.*

**11:04** Jose Ignacio Ochoa\*, UC Davis, *Monitoring cropland expansion in the Andes.*

**11:12** Alex Marden\*, University of Texas - Austin; Thoralf Meyer, University of Texas - Austin; Kelley Crews, University of Texas - Austin, *Fenceline detection via vegetation indices for monitoring in semi-arid conservation corridors.*

**11:20** Chris VandenBerg\*, University of Washington- Tacoma, *Microplastics in the Salish Sea: Facilitating Citizen Science with Geospatial Technologies.*

**1260. Hazards Risks and Disasters 2 - Hurricane Hazards (Sponsored by Hazards, Risks, and Disasters Specialty Group)**

Room: *Fairfax B, Sheraton, Third Floor* (Paper Session)

ORGANIZER(S): Eric Tate, University of Iowa; Johanna L. Ostling

CHAIR(S): Johanna L. Ostling

**10:00** Yijie Zhu, MEnvSc. Candidate\*, Department of Physical and Environmental Sciences, University of Toronto-Scarborough; Stephen G Evans, Professor, Department of Earth and Environmental Sciences, University of Waterloo, *Hazard (Earthquake and Typhoon) Energy - Impact Interactions in the Philippines 1959-2013.*

**10:20** Hannah Torres\*, University of South Florida, *Learning from a Hurricane Experience to Enhance Climate Adaptation in Broward County, Florida.*

**10:40** LEE SANGWON, Graduate Student\*, Kyung Hee University; CHOI JINMU, Professor, Kyung Hee University, *Estimation of Typhoon Damage on the Korean Peninsular using Hazus-MH.*

**11:00** Shivangi Prasad\*, University of Miami; Justin Stoler, University of Miami, *Mobile Home Residents and Hurricane Vulnerability in South Florida: An Exploratory Study.*

**11:20** Camelia Maria Kantor, PhD, MBA, Claflin University; Mihail Radu Kantor, PhD, Claflin University, *Natural hazard mitigation through hurricane resistant landscape preparedness and underground power lines. Lessons from Hurricane Matthew.*

**1262. Emerging Urban Landscape in Global South 2 (Sponsored by Regional Development and Planning Specialty Group, Asian Geography Specialty Group, Urban Geography Specialty Group)**

Room: *Kent, Sheraton, Third Floor* (Paper Session)

ORGANIZER(S): Diganta Das, Nanyang Technological University; Bikramaditya K. Choudhary, Jawaharlal Nehru University

CHAIR(S): Diganta Das, Nanyang Technological University

**10:00** Bikramaditya K. Choudhary\*, Jawaharlal Nehru University, *Spaces of Contested identity and Hindutva Politics in Banaras.*

**10:20** Dipendra Nath Das\*, Jawaharlal Nehru University, New Delhi, India; Sweta Bhusan, Jawaharlal Nehru University, New Delhi, India, *Growth Dynamics In Urban Agglomerates: A Study On Kolkata Urban Agglomeration, India.*

**10:40** Min Zhang\*; Yinchao Yang, *Agencies In The Reproduction Of Rural Migrant's Daily Consumption Spaces.*

**11:00** Ramachandraiah Chigurupati\*, Centre for Economic & Social Studies, Hyderabad, India, *Inter-referencing as a coercive power -Singapore's role and business plan in Amaravati greenfield city (India).*

**11:20** Chang-Yu Hong\*, Portland State University, *Evaluating Changes of Citizens' Values on Identification of Hydrological Vulnerability between the Past and Present for Sustainable Watershed Planning in the Future.*

**1264. Integrative approaches to monitoring and understanding large-scale hydrological systems (Sponsored by Remote Sensing Specialty Group, Climate Specialty Group, Water Resources Specialty Group)**

Room: *Boylston, Marriott, First Floor* (Paper Session)

ORGANIZER(S): Jida Wang, Kansas State University

CHAIR(S): Jida Wang, Kansas State University

**10:00** Geoffrey Fouad\*, Monmouth University, *Geographic Regions vs Clustering to Predict the Flow Duration Curve for Ungauged Basins in the Contiguous US.*

**10:20** Michelle A. Bouchard\*, South Dakota State University, *Changes in surface water extent over three decades in the Prairie Pothole region of North Dakota.*

**10:40** Thailynn Munroe\*, University of Alabama Huntsville; Eric Anderson, NASA SERVIR; Robert Griffin, PhD., University of Alabama Huntsville; Kel Markert, NASA SERVIR, *Evaluation of Remote Sensing Methods as Proxy for Salinity Measurements in the Lower Mekong Delta.*

**11:00** Jida Wang\*, Kansas State University; Chunqiao Song, Department of Geography, University of California, Los Angeles, CA, USA; Yongwei Sheng, Department of Geography, University of California, Los Angeles, CA, USA; Fangfang Yao, Department of Geography, Kansas State University, Manhattan, KS, USA; Blake Walter, Department of Geography, Kansas State University, Manhattan, KS, USA; Takuto Urano, Department of Geography, Kansas State University, Manhattan, KS, USA; Meng Ding, Department of Geography, Kansas State University, Manhattan, KS, USA; Colin Bailey, Department of Geography, Kansas State University, Manhattan, KS, USA, *Global surface water storage in the new Millennium: dynamics, implications, and challenges.*

**1265. European Financial Geographies in Flux I**

Room: *Tremont, Marriott, First Floor* (Paper Session)

ORGANIZER(S): David Bassens, Free University of Brussels; Reijer Hendrikse, Vrije Universiteit Brussels; Susanne Klara Heeg, Goethe University

CHAIR(S): David Bassens, Free University of Brussels

**10:00** Silvia Grandi\*, University of Modena and Reggio Emilia; Francesco Citarella, University of Salerno,

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*Internationalization of Italian banking system and foreign trade patterns of Italian SMEs: a co-development case study.*

**10:20** Bas Karreman\*, Erasmus School of Economics; Thijs Nacken, Erasmus School of Economics, *Crisis in the Financial Periphery: Geographical Diversification of Multinational Banks across Central and Eastern Europe.*

**10:40** Nina Quinn Eichacker, PhD\*, Bentley University; George Labrinidis, PhD, Greek Ministry of Development; Duncan Lindo, PhD, University of Leeds; Annina Kaltenbrunner, PhD, University of Leeds; Juan Pablo Páncera, PhD, Central Bank of Brazil, *Banking Integration in the Eurozone -- An Uneven Process.*

**11:00** Michiel van Meeteren\*, Vrije Universiteit Brussel; Nina Haerter, Vrije Universiteit Brussel; David Bassens, Vrije Universiteit Brussel, *Putting the crowbar in place: the building of a single European financial space (1985-2008).*

Discussant(s): Dariusz Wojcik, School of Geography and the Environment, Oxford University

**1266. Training Geographers for Collaborative, Real-World Research 2**

*Room:* Columbus 1, Marriott, First Floor (Paper Session)

ORGANIZER(S): Allison Hayes-Conroy, Temple University; Kevin Henry, Temple University; Hamil Pearsall, Temple University

CHAIR(S): Allison Hayes-Conroy, Temple University

**10:00** Allison Hayes-Conroy\*, Temple University; Rob Kulathinal, Temple University - Department of Biology, *Viscous Alleles: a transdisciplinary take on ancestry.*

**10:20** Dirk Kinsey\*, Temple University, *Rethinking Lupus and the Biosocial.*

**10:40** Alexis Saenz\*, *Bio-Social Geographies of Puberty.*

**11:00** Daniel Wiese\*, Temple University; Yohsiang Frederic Hsu, Temple University; Jeronimo Rodriguez, Temple University, *Fluidity of Biosocial Identity: Knowledge of the Body and Variations over Time and Space.*

Discussant(s): Jeffrey David Blankenship, Hobart & William Smith Colleges

**1267. Theorizing migration and mobility across contemporary Chinese society (Sponsored by China Specialty Group)**

*Room:* Columbus 2, Marriott, First Floor (Paper Session)

ORGANIZER(S): Adrian Bailey, Hong Kong Baptist University; Elaine Lynn-Ee Ho, National University of Singapore

CHAIR(S): Adrian Bailey, Hong Kong Baptist University

**10:00** Rainbow Wing Yan Ng\*, Hong Kong Baptist University; Adrian J. Bailey\*, Hong Kong Baptist University, *Precarity through the lifecourses of newcomer migrants in Hong Kong.*

**10:20** Shuang Wu\*, Hong Kong Baptist University; Adrian J. Bailey, Hong Kong Baptist University, *The production of mobilities following SOE reform in China - case study of one SOE in Changchun city.*

**10:40** Yi Liu\*, Sun Yat-sen University, *Informal Employment and Social Production of Space: Migrants Workers' Ways to Urbanism in China.*

**11:00** Carwyn James Morris\*, London School of Economics, ESRC, *Translocal Migration and Theories of Practice: Understanding migration as practice through 'mediated co-presence' and 'reproduction of locality'.*

Discussant(s): Cindy Fan, UCLA; Maggi W.H. Leung, Utrecht University

**1268. Emerging 21st Century Cities II (Sponsored by Urban Geography Specialty Group)**

*Room:* St. Botolph, Marriott, Second Floor (Paper Session)

ORGANIZER(S): Kris Bezdecny, California State University - Los Angeles; Kevin W. Archer, Central Washington

University

CHAIR(S): Kris Bezdecny, California State University - Los Angeles

**10:00** Anna Livia Brand, PhD\*, University of New Orleans; Harold Baillie, University of New Orleans, *Protecting and Expanding White Geographies: The New Racial Topographies of Urban Development in the 21st Century.*

**10:20** Anna Brand, Ph.D., University of New Orleans; Harold Baillie\*, University of New Orleans, *Destabilizing The Time and Place of Black Geographies in the Post-Disaster, Neoliberal City.*

**10:40** Laura Sara Wainer\*, Massachusetts Institute of Technology, *Slums at the Top-end of the Pyramid in Buenos Aires, Argentina: Turning neoliberal practices upside-down to rethink slum upgrading in the Global South.*

Discussant(s): Kevin W. Archer, Central Washington University

**1269. Contesting Market-Based Logic: Alternative Discourses of Payments for Ecosystem Services II - The Role of the State (Sponsored by Cultural and Political Ecology Specialty Group, Latin America Specialty Group, Economic Geography Specialty Group)**

*Room:* Regis, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Elizabeth N. Shapiro-Garza, Duke University; Ruxandra Popovici, Duke University; Christine Folch, Duke University

CHAIR(S): Elizabeth N. Shapiro-Garza, Duke University

**10:00** Nicole P. Etchart\*, University of Wisconsin, Madison; Lisa Naughton, University of Wisconsin, Madison; Margaret B Holland, University of Maryland, Baltimore County; Danilo Silva, Ecofondo, Ecuador; José Luis Freire, Ecolex, Ecuador, *Tracking the impact of payments for environmental services on the governance of protected areas in Ecuador.*

**10:20** Nicolena vonHedemann\*, University of Arizona, *Transitions in payments for ecosystem services in Guatemala: from timber subsidies to conservation and development incentives.*

**10:40** Ruxandra Popovici\*, Duke University, *Obstacles to Honest Feedback in Mexico's Matching Funds Program.*

**11:00** Daniel Allen Large, MPA\*, The University of Texas at San Antonio/Centro de Investigaciones y Estudios Superiores en Antropología Social, *Protected areas as prism revealing non-economic dimensions of payment for ecosystem services in the Global South: The case of Mexico's Bosque de la Primavera.*

Discussant(s): Pamela D. McElwee, Rutgers

**1270. Emerging and Persistent Spaces of Shrinkage: The Complex Geographies of Population Loss and Decline (Sponsored by Regional Development and Planning Specialty Group, Urban Geography Specialty Group)**

*Room:* Northeastern, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Jason Knight, SUNY Buffalo State

CHAIR(S): Jason Knight, SUNY Buffalo State

**10:00** Patrick Oberle\*, Syracuse University, *Buying Blight: Land Banks and the Changing Geography of Shrinking Cities.*

**10:20** Christopher James Willer\*, Kent State University, *From Strip to Village: Place-Marketing in Buffalo, NY.*

**10:40** Thomas J. Vicino\*, Northeastern University, *The Geography of Shrinking Suburbs.*

**11:00** Jason Knight, PhD, AICP\*, SUNY Buffalo State; Russell Weaver, PhD, Texas State University, *Legacy Cities, Legacy Suburbs: Actually Existing Shrinkage and Decline in the Suburbs of the Rust Belt.*

**11:20** Russell Weaver\*, Texas State University; Jason Knight, PhD, AICP, Buffalo State University, *Creating community wealth: analyzing responses to decline in rural North Carolina.*



**WEDNESDAY, April 5 • 10:00 AM - 11:40 AM • 1200****1271. Mobile dwelling 1: Labouring**

- Room:** Brandeis, Marriott, Third Floor (Paper Session)  
 ORGANIZER(S): David Bissell, Australian National University; Andrew Gorman-Murray, Western Sydney University  
 CHAIR(S): David Bissell, Australian National University  
**10:00** Lene Tølbøll\*, Department of Sociology and Social Work, Aalborg University; Hanne Louise Jensen, Department of Sociology and Social Work, Aalborg University, *Dwelling on Everyday Car Journeys*.  
**10:20** Simon Cook\*, Royal Holloway, University of London, *Stopping on the move: tales from the run-commute*.  
**10:40** Beth E. Notar\*, Trinity College; Kyaw San Min, Trinity College, *Mobile Dwelling through Driving: Taxi Drivers of Yangon*.  
**11:00** Sandrine Jean\*, Memorial University of Newfoundland, *Between Mobility and Attachment: Practices of Home and Home Making Among Mobile Workers in Newfoundland and Labrador and in Alberta, Canada*.

**1272. Legal Geography and Social Justice II (Sponsored by Socialist and Critical Geography Specialty Group, Cultural Geography Specialty Group)**

- Room:** MIT, Marriott, Third Floor (Paper Session)  
 ORGANIZER(S): Kafui Attoh, CUNY Murphy Institute; Joaquin Villanueva, Gustavus Adolphus College  
 CHAIR(S): Kafui Attoh, CUNY Murphy Institute  
**10:00** Mark Ortiz\*, University of North Carolina - Chapel Hill - Chapel Hill, NC, *"With All Deliberate Speed": Reimagining Geographies of Harm through US Climate Change Litigation*.  
**10:17** Michele Statz, PhD\*; Lisa Pruitt, JD, PhD, UC Davis, *A Spatial Reading of Whole Woman's Health v. Hellerstedt: Recognizing the Tyranny of Distance*.  
**10:34** Elizabeth Oglesby\*, University of Arizona, *Geographies of Justice and Guatemala's Genocide Trial*.  
 Discussant(s): Irus Braverman, SUNY - Buffalo State

**1273. Symposium on Human Dynamics in Smart and Connected Communities: Spatial Interactions in Physical and Virtual Spaces**

- Room:** Boston University, Marriott, Third Floor (Paper Session)  
 ORGANIZER(S): Yang Yue, Shenzhen University  
 CHAIR(S): Yang Yue, Shenzhen University  
**10:00** Nan Ding\*, University at Buffalo, *Long-Distance Commuters and Their Spatial Concentration in Buffalo, New York*.  
**10:15** Hongmou Zhang\*, Massachusetts Institute of Technology; Jinhua Zhao, Massachusetts Institute of Technology, *The role of social interaction in ridesharing choices*.  
**10:30** Yang Yue\*, Shenzhen University, *If not size, what are the factors for determining shopping center attractiveness?*.  
**10:45** Kevin T. Roy\*, University of Toronto; Harald Bathelt, University of Toronto, *Market-Making and Interaction Dynamics in the Ontario Craft Brewing Industry*.  
**11:00** Young-Hoon Kim\*, Korea National University Of Education; JeongHwan Park, Korea National University Of Education; DonJeong Choi, ChungNam Institute, *Measuring spatial accessibility to primary health care services with a three step floating catchment area method: a case study in the Chungnam region, Korea*.  
**11:15** Bo Bi\*, Tsinghua University, *Understanding Socio-spatial Inequity in Basic Education: A Micro-scale Investigation on Accessibility to Schools in a Suburban Sub-district of Beijing*.

**1274. CyberGIS and High-Performance Computing in Geography (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group, Spatial Analysis and Modeling Specialty Group)**

**Room:** Simmons, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Eric Shook, University of Minnesota; Shaowen Wang, University of Illinois at Urbana-Champaign  
 CHAIR(S): Yi Qiang, CU-Boulder

- 10:00** Yi Qiang\*, University of Colorado - Boulder; Barbara P. Buttenfield, University of Colorado - Boulder; Maxwell Joseph, University of Colorado - Boulder; Carson Farmer, University of Colorado - Boulder, *A Systematic Evaluation of Surface-Adjusted Distance Measurements using a HPC-enabled Monte Carlo Simulation*.  
**10:20** Jing Li\*, University of Denver; Tong Zhang, Wuhan University, *Automatic resource provisioning and task scheduling for interactive spatiotemporal visualization in a cloud environment*.  
**10:40** Dandong Yin\*, University of Illinois at Urbana-Champaign; Yan Liu, University of Illinois at Urbana-Champaign; Johnathan Rush, University of Illinois at Urbana-Champaign; Jeff Terstriep, University of Illinois at Urbana-Champaign; Anand Padmanabhan, University of Illinois at Urbana-Champaign; Shaowen Wang, University of Illinois at Urbana-Champaign, *CyberGIS-Jupyter: Toward Reproducible Geospatial Analytics at Scale*.  
**11:00** Yaping Cai\*, University of Illinois; Kaiyu Guan, University of Illinois; Jian Peng, University of Illinois; Shaowen Wang, University of Illinois, *An Integrated CyberGIS and Machine Learning Approach to High-Performance Classification of Field-Level Crop Types Based on Time-series Landsat Data*.  
 Discussant(s): Serge Rey, Arizona State University

**1275. Geospatial Health Research Symposium: Suicide, illicit drug use & addiction II (Sponsored by Hazards, Risks, and Disasters Specialty Group, Urban Geography Specialty Group, Health and Medical Geography Specialty Group)**

- Room:** Suffolk, Marriott, Third Floor (Paper Session)  
 ORGANIZER(S): Eric M. Delmelle, University of North Carolina at Charlotte; Michael J. Widener, University of Toronto; Mei-Po Kwan, University of Illinois at Urbana-Champaign  
 CHAIR(S): Zan Dodson, University of Pittsburgh  
**10:00** Kate Lester, MS\*, University of North Texas, *Armed and Vulnerable: Investigating the relationship between firearms and public health*.  
**10:20** Su-Yin Tan\*, University of Waterloo; Robert Haining, University of Cambridge, *Crime Victimization and the Implications for Individual Health and Wellbeing*.  
**10:40** Matin Katirai, Ph.D.\*, West Chester University Department of Geography; Whitney Katirai, Ed.D., West Chester University; Harry Hold, Ph.D., West Chester University; Luke Rosanova, West Chester University, *Availability of Medication-Assisted Treatment for Opioid Addiction in Rural and Urban Pennsylvania*.  
 Discussant(s): Zan Dodson, University of Pittsburgh

**1276. Symposium on Human Dynamics in Smart and Connected Communities: Smart Cities and Urban Computing I (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group, Spatial Analysis and Modeling Specialty Group)**

- Room:** Wellesley, Marriott, Third Floor (Paper Session)  
 ORGANIZER(S): Xinyue Ye, Kent State University; Shaowen Wang, University of Illinois at Urbana-Champaign  
 CHAIR(S): Shaowen Wang, University of Illinois at Urbana-Champaign  
**10:00** Jens Kandt, University College London; Paul Longley, University College London, *Using Big Data to study urban and regional dynamics in the United Kingdom*.  
**10:20** Paul A Longley, Ph.D., D.Sc., University College London; Guy Lansley, M.Sc., University College London; Wen Li, Ph.D., University College London, *The dynamics of*

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*residential filtering.*

**10:40** Cheng Fu\*, Kathleen Stewart; Paul Torrens, *Mining Text Topics in Georeferenced Tweets to Reveal Activity Patterns in Urban Space.*

**11:00** Scott Kelley\*, University of Michigan, *Shared Mobility in Ann Arbor: Spatial Variation in Travel Behavior and Potential Impacts on the Ownership of Connected and Autonomous Vehicles.*

Discussant(s): Michael J. Widener, University of Toronto

**1277. Extra-regional dynamics of territorial development II: Innovation and Transition**

*Room:* Harvard, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Stuart Dawley, CURDS, Newcastle University; Danny Mackinnon, Newcastle University

CHAIR(S): Markus Steen, SINTEF Technology & Society

**10:00** Bernhard Truffer\*, Eawag/Utrecht University; Christian Binz, Lund University; Lars Coenen, Lund University, *Global Innovation Systems - towards a conceptual framework for innovation processes in transnational contexts.*

**10:20** Christian Binz, CIRCLE - Lund University; Lea Fuenschilling, CIRCLE - Lund University, *Global socio-technical regimes.*

**10:40** Xiao-Shan Yap\*, Eawag; Bernhard Truffer, Eawag; Utrecht University, *Sustainability transition and technological catch-up: Guidance of search as a strategic mechanism for leapfrogging.*

**11:00** Robert Pollock, MA (Hons), MSc\*, University of Newcastle, *Multi-scalar Institutional Environments and Regional Energy Transition Paths.*

**1279. Telecoupling of Global Land and Food Systems (Sponsored by Human Dimensions of Global Change Specialty Group)**

*Room:* Arlington, Marriott, Third Floor (Paper Session)

ORGANIZER(S): John Patrick Connors, Boston University

CHAIR(S): John Patrick Connors, Boston University

**10:00** Marco Millones Mayer\*, University of Mary Washington; Parmentier Benoit, University of Maine; Birgit Schmook, Colegio de la Frontera Sur; John Rogan, Clark University, *Using Food Flow Data to Assess Sustainability: Land Use Displacement and Regional Decoupling in Quintana Roo, Mexico.*

**10:20** Anthony C. Janetos\*, Boston University, *Impacts of Agricultural Losses in a Telecoupled World: Modeling the cascading effects of production losses on global land use and terrestrial carbon emissions.*

**10:40** Dapeng Li\*, Michigan State University, *An open source tool for tracing international food trade flows under the telecoupling framework.*

**11:00** William J. McConnell\*, Michigan State University, *Food-Energy-Water Impacts of Rising Affluence in China.*

**11:20** Darla Munroe\*, Ohio State University; Derek Van Berkel, North Carolina State University; Jeffrey L Olson, University of Wisconsin-Whitewater; Yuxi Zhao, Ohio State University; Caleb Gallemore, Lafayette College, *Teleconnected landowners in rural, forested communities..*

**1280. Characterizing and monitoring land cover and land cover change using remote sensing(II) (Sponsored by Geographic Information Science and Systems Specialty Group, Remote Sensing Specialty Group, Urban Geography Specialty Group)**

*Room:* Berkeley, Marriott, Third Floor (Paper Session)

ORGANIZER(S): George Xian, USGS EROS Data Center; Jim Vogelmann, USGS/EROS

CHAIR(S): Jim Vogelmann, USGS/EROS

**10:00** Patrick Danielson\*, SGT, contractor to the USGS Earth Resources Observation and Science (EROS) Center, work performed under USGS contract G15PC00012; Collin Homer, (USGS) Earth Resources Observation and Science (EROS) Center, *Overview of the 2011*

*North American Land Cover Monitoring System (NALCMS) for Alaska and the Conterminous United States.*

**10:15** Tyler Harris\*, Oregon State University, *Characterizing forest disturbance dynamics across governance regimes in Oregon's Western Cascades.*

**10:30** Di Shi\*, University of Kansas; Xiaojun Yang, Florida State University, *Using a Multiple Classifier System to Map Vegetation and Land Cover in an Urban Area.*

**10:45** Mitchell T. Bonney\*, Queen's University; Ryan Danby, Queen's University; Paul Treitz, Queen's University, *Satellite-observed Landscape Variability of Vegetation Change across North-central Canada's Forest-Tundra Ecotone.*

**11:00** Jim Vogelmann\*, USGS/EROS; Qiang Zhou, Inuteq, USGS/EROS Center; Alisa Gallant, USGS/EROS, *Monitoring Vegetation Condition Change using Landsat Time Series Data.*

**11:20** Matthew Bruce Rigge\*, Inuteq Contractor to USGS; Hua Shi, Inuteq Contractor to USGS; Collin Homer, USGS; George Xian, USGS; Debbie Meyer, SGT Contractor to USGS; Brett Bunde, SGT Contractor to USGS, *Historical Trends of Continuous Cover Components in a Sagebrush Steppe Ecosystem 1985-2013: Links with Climate, Disturbance, and Management.*

**1281. (Extra)territoriality Part II: Migration, refugees, and securitization (Sponsored by Political Geography Specialty Group, Cultural Geography Specialty Group)**

*Room:* Clarendon, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Sara N. Hughes, University of California - Los Angeles; Josh Watkins

CHAIR(S): Josh Watkins

**10:00** Josh Watkins\*, University of California, Davis, *An Extra-Regional Solution: Australia's use of humanitarian aid and border security support to extraterritorially immobilize asylum seekers.*

**10:15** Toby Martin Applegate, PhD\*, University of Massachusetts-Amherst, *Critical perspectives of Slovenia's response to the 2015 migration crisis.*

**10:30** Keegan Andrea Williams\*, Wilfrid Laurier University, *Inclusion through Imperio: the Legal Geographies of Migration Enforcement through Search and Rescue.*

**10:45** Geoffrey Boyce\*, University of Arizona, *Everyday Violence and Geographies of Migration and Deterrence in Arizona's Altar Valley.*

**11:00** Francis L Collins, PhD, University of Auckland, *Kafka on the Border: encountering bureaucracy and the affective experience of immigration control.*

Discussant(s): Maribel Casas-Cortes, Hunt Fellow; Sebastian Cobarrubias, University of North Carolina - Charlotte

**1282. Anarchist Political Ecology: Theoretical Horizons and Empirical Axes I - Radical Resistance (Sponsored by Political Geography Specialty Group, Cultural and Political Ecology Specialty Group)**

*Room:* Dartmouth, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Simon Springer, University of Victoria; Martin Locret-Collet

CHAIR(S): Simon Springer, University of Victoria

**10:00** Matt Fuller\*, University of Victoria, *Radical potentials and emergent powers in confrontations with extractivist industries by Indigenous/non-indigenous alliances: A case study of the Lummi Totem Pole Journey.*

**10:20** Joshua M. Mullenite\*, Florida International University, *In the Shell of Colonialism: An Anarchist Political Ecology of Flood Management in Guyana.*

**10:40** Kent Mathewson\*, Louisiana State University, *Ethnicity, Race, and Environment in the Writings of Elisee Reclus.*

**11:00** Martin M.G. Locret-Collet\*, University of Birmingham,



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*Our Graves Above the Timberline: Urban Green Commons, Diachronic Environmental Politics and Intergenerational Justice.*

**11:20** Eric P. Perramond\*, Colorado College, *Refusing the State: Blinding water adjudications in New Mexico.*

**1283. Locational Intelligence: The Future of GIS Technology in Business (Sponsored by AAG Careers and Professional Development Theme, Business Geography Specialty Group)**

*Room:* Exeter, Marriott, Third Floor (Panel Session)

ORGANIZER(S): Brett J. Lucas, City of Cheney, WA

CHAIR(S): Brett J. Lucas, City of Cheney, WA

**1284. Publication and Peer Review in Physical Geography (Sponsored by AAG Careers and Professional Development Theme, Climate Specialty Group, Biogeography Specialty Group, Geomorphology Specialty Group)**

*Room:* Fairfield, Marriott, Third Floor (Panel Session)

ORGANIZER(S): Michael A. Urban, University of Missouri;

Jacob Bendix, Syracuse University

CHAIR(S): Michael A. Urban, University of Missouri

Introducer: Michael A. Urban

Panelists: Richard A. Marston, Kansas State University; Carol P. Harden, University of Tennessee; Scott A. Lecce, East Carolina University; George P. Malanson, University of Iowa; Anne Chin, University of Colorado Denver; Jennifer A. Miller, University of Texas at Austin; Karen C. Seto, Yale University; Mark Alan Fonstad, University of Oregon

**1285. New Records of Paleoenvironmental Change II (Sponsored by Paleoenvironmental Change Specialty Group)**

*Room:* Salon H, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Matthew T. Kerr, The University of Tennessee;

Anna Agosta G'meiner, McGill University

CHAIR(S): Anna Agosta G'meiner, McGill University

Introducer: Anna Agosta G'meiner

**10:00** Zachary P. Taylor, PhD\*, Berry College; Chad S. Lane, PhD, University of North Carolina Wilmington; Sally P. Horn, PhD, University of Tennessee, *Hydrogen isotope evidence of climatic control on prehistoric agricultural activities in southern Costa Rica.*

**10:20** Neil Pederson\*, Harvard University; Amanda Young, Pennsylvania State University; Amanda B. Stan, Northern Arizona University; Dario Martin-Benito, ETH Zurich; Uyanga Ariya, National University of Mongolia, *Low-hanging DendroDynamic Fruits Regarding Disturbance in Temperate, Mesic Forests.*

**10:40** David F. Porinchu\*, University of Georgia; Danielle Haskett, University of Georgia; Scott Reinemann, Ohio University; Uday Sachdeva, University of Georgia, *The response of aquatic ecosystems to anthropogenic global change in the Intermountain West of the United States.*

**11:00** Danielle Haskett\*, The University of Georgia; David F. Porinchu, University of Georgia, *Climate and Environmental Change in the Colorado Rocky Mountains during the Late Quaternary: An Analogue for a Warm Future.*

**11:20** Mathew S. Boehm\*, Department of Geography, The University of Tennessee; Sally P. Horn, Department of Geography, The University of Tennessee; Steven G. Driese, Department of Geosciences, Baylor University; Chad S. Lane, Department of Earth and Ocean Sciences, University of North Carolina, Wilmington, *Middle Holocene Vegetation, Climate, and Fire Dynamics at Henson Branch, Tennessee.*

**1286. Spatial Humanities II: Global, Regional, and Local Perspectives across Time (Sponsored by Historical Geography Specialty Group)**

*Room:* Salon I, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Robert Schwartz, Retired; Christophe MIMEUR, Laboratoire TheMA CNRS

CHAIR(S): Christophe MIMEUR, Laboratoire TheMA CNRS

**10:00** Merrick Berman\*, China Historical GIS, Harvard Univ, *From Historical GIS to Temporal Gazetteer.*

**10:20** Sydney Valette Rupert\*, School of Social Sciences, Humanities, and Arts, University of California, Merced, *Historical Demographic GIS Model of Merced, CA based on the 1940 US Census.*

**10:40** Karl Ryavec\*, University of California - Merced, *The Macroregion as an Integral Part of the World System.*

**11:00** May Yuan\*, University of Texas - Dallas; Wei Luo\*, University of California, Santa Barbara, *Space-Time Patterns in International Trade, 1901-2009.*

Discussant(s): Trevor M. Harris, West Virginia University

**1287. Building blocks and values in infrastructure: understanding agency, normativity, directionality & change I. Embedded normativities (Sponsored by Energy and Environment Specialty Group)**

*Room:* Salon J, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Ralitsa Hiteva, SPRU, University of Sussex; Katherine Lovell, University of Sussex; Mark Usher, University of Manchester

CHAIR(S): Markus M. Bugge, NIFU

**10:00** Jenny McArthur\*, UCL STEaPP, *Contested norms and agency in the governance of infrastructure: redefining transport in Auckland, New Zealand.*

**10:20** Denver V. Nixon, PhD\*, University of Oxford; Tim Schwanen, PhD, University of Oxford, *Community-led Infrastructures: Grassroots walking and cycling innovations in London.*

**10:40** Ralitsa Hiteva, Dr.\*, SPRU, University of Sussex, *Hidden agencies of governance: intermediaries and infrastructure.*

**11:00** Iain Soutar\*, University of Exeter, *Understanding unwritten narratives of societal engagement in the UK energy system.*

Discussant(s): Aad Correljé, Delft University of Technology

**1288. Disruption or displacement? Exploring the complex interactions between the environment and migration (2 out of 2) (Sponsored by Human Dimensions of Global Change Specialty Group, Population Specialty Group)**

*Room:* Salon K, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Maia Call; Mathew Hauer, University of Georgia

CHAIR(S): Maia Call

**10:00** Jessica Marter-Kenyon, PhD Candidate\*, University of California - Santa Barbara, *Planned Population Resettlement in an Era of Global Environmental Change.*

**10:20** Mathew Hauer\*, University of Georgia, *Sea level rise induced migration could reshape the U.S. population landscape.*

**10:40** David J. Wrathall, PhD\*, Oregon State University, *Unveiling Hidden Migration and Detecting Large-scale Adaptation in Climate-Stressed Regions: A Longitudinal Study of Six Million Anonymous Mobile Phone Users in Bangladesh.*

**11:00** Sil Lanckriet, University of Ghent; Haripriya Rangan\*, The University of Melbourne, *The Influence of Cattle Populations and Pastoral Migrations on Long-term Landscape Dynamics in the Ethiopian Highlands.*

**11:20** Alex de Sherbinin, PhD\*, CIESIN, The Earth Institute at Columbia University, *Mapping and Modeling the Flow of Climate Change Migrants.*

**1289. Feminist geographies actually: claiming space as a feminist geographer (II) (Sponsored by Geographic Perspectives on Women Specialty Group)**

*Room:* Vineyard, Marriott, Fourth Floor (Panel Session)

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ORGANIZER(S): Marianne Blidon, Paris 1 University  
 CHAIR(S): Marianne Blidon, Paris 1 University  
 Discussant(s): Janice Monk, University of Arizona  
 Panelists: Juliet Fall, University of Geneva; Beth Nelson,  
 University of South Carolina; Avril Maddrell; Rickie  
 Sanders, Temple University

## 1290. Spatial Weights (Sponsored by Geographic Information Science and Systems Specialty Group, Applied Geography Specialty Group, Spatial Analysis and Modeling Specialty Group)

Room: Yarmouth, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Xiang Ye, University at Buffalo; Jeon-Young Kang, SUNY - Buffalo

CHAIR(S): Xiang Ye, University at Buffalo

10:00 Eric Wang, The Chinese University of Hong Kong, *Modeling subjective well-being with socio-spatial heterogeneous model and multiple social dimensions.*

10:20 Aaron Dixon\*, U.S. Bureau Of the Census, *Interpolating Subnational Ethiopian Census Populations between 1994 and 2007.*

10:40 Hong Zhuo\*, University of Wisconsin - Milwaukee, *Synthesizing Population by Simultaneously Fitting Individuals and Households.*

11:00 K. Colton Flynn, M.A. \*, Oklahoma State University, *A Site Suitability Analysis for *Eragrostis tef* within the United States.*

11:20 YAN JIN\*, State Key Laboratory of Resources and Environmental Information System, Institute of Geographic Sciences & Natural Resources Research, University of Chinese Academy of Sciences;  
 YONG GE, State Key Laboratory of Resources and Environmental Information System, Institute of Geographic Sciences & Natural Resources Research, Chinese Academy of Sciences; Jianghao Wang, State Key Laboratory of Resources and Environmental Information System, Institute of Geographic Sciences & Natural Resources Research, Chinese Academy of Sciences, *Spatial downscaling of remotely sensed soil moisture product by integrating soil texture information with a hybrid geostatistical method.*

## 1291. Russia's Pivoting Foreign Policy (Sponsored by Eurasian Specialty Group, Political Geography Specialty Group, China Specialty Group)

Room: Nantucket, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Jeremy Tasch, Towson University

CHAIR(S): Jeremy Tasch, Towson University

## 1292. Geospatial Health Research Symposium: Access to Health Care I (Sponsored by Spatial Analysis and Modeling Specialty Group, Health and Medical Geography Specialty Group, Transportation Geography Specialty Group)

Room: Provincetown, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Eric M. Delmelle, University of North Carolina at Charlotte; Mei-Po Kwan, University of Illinois at Urbana-Champaign; Michael J. Widener, University of Toronto

CHAIR(S): Fahui Wang, Louisiana State University

10:00 Eric M. Delmelle, Ph.D., M.S.\*, University of North Carolina at Charlotte; Michael R Desjardins, M.A., University of North Carolina at Charlotte; Russell Kirby, Ph.D., M.S., Birth Defects Surveillance Program, Department of Community and Family Health, College of Public Health, University of South Florida, Tampa, *Where have you been? Evaluating the impact of residential mobility on health care accessibility for children with birth defects..*

10:20 Ping Yin\*, University of Mary Washington, *Spatio-temporal pattern of spatial access to prenatal care service in Georgia, 2000-2010.*

10:40 Elisabeth Dowling Root\*, The Ohio State University;

Emelie Bailey, The Ohio State University, *Local context and the effectiveness of health systems decentralization in rural Honduras: One size does not fit all.*

11:00 Tayyab Ikram Shah, Ph.D.\*, University of Saskatchewan; Stephan Milosavljevic, Ph.D., University of Saskatchewan; Brenna Bath, BSc(PT), MSc, PhD, FCAMPT, University of Saskatchewan, *Access to Primary Health Care in the Canadian Prairie Provinces: Determining geographic accessibility scores for combined family physician and nurse practitioner services.*

11:20 Fahui Wang\*, Louisiana State University; Yujie Hu, PhD, Rice University, *Automated Delineation of Hospital Service Areas and Hospital Referral Regions by Modularity Optimization.*

Discussant(s): Eric M. Delmelle, University of North Carolina at Charlotte

## 1293. Feminist, Queer and Critical Race Tool Kits 2: Intersectionality as Research Praxis (Sponsored by Geographic Perspectives on Women Specialty Group, Urban Geography Specialty Group)

Room: Orleans, Marriott, Fourth Floor (Panel Session)

ORGANIZER(S): Leslie Kern, Mount Allison University; Heather McLean, University of Glasgow

CHAIR(S): Heather McLean, University of Glasgow

Discussant(s): Brenda Parker, University of Illinois At Chicago

Panelists: Ebru Ustundag, Brock University; Sapana Doshi, University of Arizona, Tucson; Laura Shillington, John Abbott College; Clare Cannon, Tulane University

## 1294. Directions for computational modeling of complex systems with big data and big models II (Sponsored by Geographic Information Science and Systems Specialty Group, Applied Geography Specialty Group, Graduate Student Affinity Group)

Room: Hyannis, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Eun-Kyeong Kim, The Pennsylvania State University; Patrick Bitterman, University of Iowa

CHAIR(S): Eun-Kyeong Kim, The Pennsylvania State University  
 10:00 Herman Geyer\*, CRUISE, *Determining the micro-effects of dimensionality on agent mobility in Polycentric City Regions using fractal scaling.*

10:20 Arnaud Josephus Temme\*, Kansas State University, *Reconciling the Robustness of Mathematical Models with the Complexity of Real, Historical Landscapes.*

10:40 April Morton\*, Oak Ridge National Laboratory; Robert N. Stewart, PhD, Oak Ridge National Laboratory; Jesse Piburn, Oak Ridge National Laboratory; Samantha Duchscherer, Oak Ridge National Laboratory; Nicholas Nagle, PhD, University of Tennessee; H M Abdul Aziz, PhD, Oak Ridge National Laboratory; Byung Hoon Park, PhD, Oak Ridge National Laboratory, *A Monte-Carlo Simulation Approach for Estimating and Quantifying the Uncertainty of United States Worker Population Distributions and Journey to Work Travel Flows by Demographic Category.*

11:00 Ling XUE\*, Peking University, *Non-equilibrium Dynamics of Spatial Evolution of Urban and Regional System in China.*

## 1295. Land resources and pollution 2 (Sponsored by Geographic Information Science and Systems Specialty Group, Health and Medical Geography Specialty Group)

Room: Falmouth, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Wenjie Wang, University of Connecticut; Chuanrong Zhang, University of Connecticut, Department of Geography

CHAIR(S): Chuanrong Zhang, University of Connecticut, Department of Geography

10:00 Chuanrong Zhang\*, University of Connecticut,

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Department of Geography & Center for Environmental Sciences and Engineering; Ruiting Zhai, University of Connecticut, Department of Geography; Weidong Li, University of Connecticut, Department of Geography & Center for Environmental Sciences and Engineering, *Land Use/Cover Change in Long Island Sound Watersheds (LISW), USA.*

**10:20** Wenjie Wang\*, University of Connecticut, Department of Geography; Chuanrong Zhang, University of Connecticut, Department of Geography & Center for Environmental Sciences and Engineering; Jenica M. Allen, University of New Hampshire, Department of Natural Resources and the Environment; Weidong Li, University of Connecticut, Department of Geography & Center for Environmental Sciences and Engineering; Mark A. Boyer, University of Connecticut, Department of Geography; Kathleen Segerson, University of Connecticut, Department Economics; John A. Silander, University of Connecticut, Department of Ecology and Evolutionary Biology, *Analysis and Prediction of Land Use Changes Related to Invasive Species and Major Driving Forces in the State of Connecticut.*

**10:40** Ruiting Zhai\*, University of Connecticut, Department of Geography; Chuanrong Zhang, University of Connecticut, Department of Geography & Center for Environmental Sciences and Engineering; Weidong Li, University of Connecticut, Department of Geography & Center for Environmental Sciences and Engineering, *Comparing the Logistic Regression -Markov model and the Multi-Layer Perception (MLP)-Markov model for Modeling Land Use/Cover Change in Long Island Sound Watersheds, USA.*

**11:00** Shijin Qu\*, Department of Land Resource Management, China University of Geosciences; Shougeng Hu, Department of Land Resource Management, China University of Geosciences, *Spatio-temporal Dynamic Patterns of the Urban Land Use Transition in Middle Yangtze River Economic Belt.*

**11:20** Quanfeng Li\*, School of Public Administration, China University of Geosciences, Wuhan 430074, China; Shougeng Hu, School of Public Administration, China University of Geosciences, Wuhan 430074, China, *Spatiotemporal Pattern and Drivers of Cultivated Land Management since 1990 - A Case of Study in Hunan Province of China.*

**1296. Publics, Pedagogies, and Praxis: Engaged Research and Scholarship in Critical Geography Session 2 Pedagogies (Sponsored by Cultural and Political Ecology Specialty Group, Ethics, Justice, and Human Rights Specialty Group, Socialist and Critical Geography Specialty Group)**

*Room:* Maine, Marriott, Fifth Floor (Paper Session)

ORGANIZER(S): Joel E. Correia, University of Colorado, Boulder; Tracey Osborne, University of Arizona

CHAIR(S): Joel E. Correia, University of Colorado, Boulder

**10:00** Romola Vasantha Thumbadoo, PHD Student\*, Circle of All Nations, *Circle of All Nations Discourse of Late Indigenous Elder and Activist, Dr. William Commanda, OC.*

**10:15** Nathan McClintock\*, Portland State University, *Critical reflexivity, contradictions, and an evolving politics of resourcefulness: Reflections on community-engagement and teaching food justice.*

Discussant(s): Erin Goodling; Kama Cannon; Lucy Jarosz, University of Washington

**1297. Geopolitics of Tourism II: (Sponsored by Recreation, Tourism, and Sport Specialty Group, Political Geography Specialty Group, Cultural and Political Ecology Specialty Group)**

*Room:* Massachusetts, Marriott, Fifth Floor (Paper Session)

ORGANIZER(S): Mary Mostafanezhad, University of Hawai'i

at Manoa; Roger Norum; Matilde Cordoba Azcarate, University of California, San Diego

CHAIR(S): Matilde Cordoba Azcarate, University of California, San Diego

**10:00** Robert Fletcher\*, Wageningen University, *Ecotourism after Nature: Anthropocene Tourism as the Latest Capitalist "Fix".*

**10:20** Mary Mostafanezhad\*, University of Hawai'i at Manoa, *Enflamed Livelihoods: The Environmental Geopolitics of Tourism and the Haze Crisis in Northern Thailand.*

**10:40** Eli Elinoff, Victoria University of Wellington; Jamie Gillen\*, National University of Singapore, *The state of fun: The geopolitical dimensions of Singapore's domestic tourism industry.*

**11:00** Ian Rowen, PhD\*, Institute of Ethnology, Academia Sinica, *Tourism and political warfare in Taiwan and China.*

Discussant(s): Rosaleen Duffy, University of Sheffield; James Igoe, Dartmouth College

**1298. From sustainable to critical transport studies: a global perspective II**

*Room:* New Hampshire, Marriott, Fifth Floor (Paper Session)

ORGANIZER(S): Wojciech Koblowski, Vrije Universiteit Brussel; Kobe Boussauw, Ghent University - Geography Department

CHAIR(S): Wojciech Koblowski, Vrije Universiteit Brussel

**10:00** Keith G. McKoy, Dr\*, Sheffield Hallam University; Keith George McKoy, Dr, Sheffield Hallam University, *The impact of political marketing on the politics of transport.*

**10:20** Kobe Boussauw\*, Vrije Universiteit Brussel - Cosmopolis Centre for Urban Research, *Sustainable mobility and conflict: a possible contribution of research by design in two Palestinian cities.*

**10:40** Carlo Invernardi Ferri\*, University of Oxford, *Urban Nomadism: Everyday (Im)mobilities in Contemporary Beijing.*

**11:00** Deden Rukmana\*, Savannah State University; Vishanya Forbes, Savannah State University, *Rapid Urbanization and the Need for Sustainable Transportation Policies in Jakarta.*

**11:20** Sören Groth\*, ILS - Research Institute for Regional and Urban Development gGmbH, *Multimodal Mismatch: Social Polarization of New Mobility Trends.*

**1299. Privatisation, the New Contractualism and the Governance of Contemporary Cities - Part 2**

*Room:* Vermont, Marriott, Fifth Floor (Paper Session)

ORGANIZER(S): Martijn Van Den Hurk, University of Amsterdam; Tuna Tasan-Kok, TUDelft; Mike Raco, University College London

CHAIR(S): Martijn Van Den Hurk, University of Amsterdam

**10:00** Luca Sara Brody\*, Gran Sasso Science Institute, *The promises of the temporary: Formalising vacant land reuses in Barcelona.*

**10:20** Maria Beatriz Cruz Rufino\*, University of São Paulo-Facult of Architecture and Urbanism, *Public-Private Partnerships And Their Implications For Inclusive Urbanisation In Brazil.*

**10:40** Amy Rosenthal\*, Rutgers University; Kathe Newman, Rutgers University, *Urban Governance in a Neoliberal Age: The Public-Private Food Assistance Network.*

**11:00** Raffaella Afferni\*, Università del Piemonte Orientale; Carla Ferrario, Università del Piemonte Orientale, *New Opportunities for Public use of Italian Historical Military Heritage. The Military Base-City of Novara.*

Discussant(s): Laura Wolf-Powers, Center for Urban Research



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- 1363. AAG Council Town Hall Meeting - Special Event**  
**Room:** Commonwealth, Sheraton, Third Floor (Meeting Session)

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- 1401. Dynamics of Coupled Natural and Human Systems Panels: Models, Feedback, Analyses, and Outcomes (III) (Sponsored by Human Dimensions of Global Change Specialty Group)**  
**Room:** Room 101, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): Chuan Liao, University of Michigan; Arun Agrawal, University of Michigan  
 CHAIR(S): Arun Agrawal, University of Michigan  
**12:40** Bradford Wilcox\*, Ecosystem Science and Management, Texas A&M University, *Slowing the Expansion of Woodlands and Increasing the Resilience of Grasslands in the Southern Great Plains.*  
**1:00** Patrick Bitterman, University of Iowa; Eric Tate\*, University of Iowa; Kim Van Meter, University of Waterloo; Nandita Basu, University of Waterloo, *Water security and rainwater harvesting: A conceptual framework and candidate indicators.*  
**1:20** Anne Short Gianotti\*, Boston University; John Connors, Boston University; Joshua Daskin, Princeton University; Georgia Mavrommati, University of Massachusetts Boston; William McShea, Smithsonian Institute; Jonathan Thompson, Harvard Forest, *Social, Institutional, and Ecological Dynamics of Deer Management.*  
**1:40** Ryan Unks\*, University of Georgia, *30 Years of Interrelated Pastoralist Herding Livelihoods and Complex Landscape-level Vegetation Changes in Laikipia, Kenya.*  
 Discussant(s): Daniel Miller, University of Illinois

- 1402. Applications of NASA Earth Observations**  
**Room:** Room 102, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): Sean McCartney, NASA  
 CHAIR(S): Sean McCartney, NASA  
**12:40** Sean McCartney\*, NASA DEVELOP Program - GSFC, *Utilizing NASA Earth Observations to Map Eastern Hemlock for Woolly Adelgid Management in Adirondack Park and Tug Hill State Forest, New York.*  
**12:55** Maggi Klug\*, NASA DEVELOP Program - MSFC, *Assessing Southern Pine Beetle Epidemics in Alabama's Bankhead National Forest Using NASA Earth Observations.*  
**1:10** Tamara Ward Dunbarr\*, NASA DEVELOP Program - MCDPH, *Monitoring PM10 Concentrations with MODIS Aerosol Optical Depth Measurements for Enhanced Public Health and Air Quality Decision Making and Epidemiology.*  
**1:25** Hannah Rosenblum\*, NASA DEVELOP Program - LaRC, *Utilizing NASA Earth Observations to Create a Precipitation Climatology of Jordan, Israel, and the West Bank to Identify Optimal Rainwater Harvesting Locations for Underserved Schools.*  
**1:40** Abhishek Kumar\*, NASA DEVELOP Program - UGA,

*Utilizing NASA Earth Observations and Proximal Remote Sensing for Mapping the Spatio-Temporal Distribution of Hydrilla verticillata.*

- 1:55** Courtney Ohr\*, NASA DEVELOP Program - BLM-ISU, *Developing Fire Susceptibility Models Using Remote Sensing to Identify Wildlife Habitats in the Sagebrush-Steppe Ecosystem Threatened by Wildfires.*

- 1403. Unmanned Aerial Vehicles in the Geography Curriculum and Classroom (Sponsored by Remote Sensing Specialty Group, Geography Education Specialty Group)**  
**Room:** Room 103, Hynes, Plaza Level (Panel Session)  
 ORGANIZER(S): Anthony Ravindra Cummings, University of Texas at Dallas; Jane M. Read, Syracuse University  
 CHAIR(S): Jane M. Read, Syracuse University  
 Introducer: Amy E. Frazier  
 Discussant(s): Jane M. Read, Syracuse University  
 Panelists: Donna M. Delparte, Idaho State University; Tao Tang, State University of New York - Buffalo State; Donna Selch, Stony Brook University; Anita Simic, Bowling Green State University; Anthony Ravindra Cummings, University of Texas at Dallas; Brian Hennigan, Syracuse University

- 1404. Ethical Engagement in Geographical Fieldwork (Sponsored by AAG Careers and Professional Development Theme, Development Geographies Specialty Group)**  
**Room:** Room 104, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): Regina Scheyvens, Massey University; Robin Biddulph, University of Gothenburg  
 CHAIR(S): Regina Scheyvens, Massey University  
**12:40** Regina Scheyvens, Professor\*, Massey University, *Responsibility and Reciprocity in Development Fieldwork.*  
**1:00** Robin Biddulph\*, University of Gothenburg, *Managing Fear: On being ethical and critical when conducting fieldwork in authoritarian contexts.*  
 Discussant(s): Ritwika Biswas, Temple University

- 1405. Global Carceral Geographies II: Carceral Societies (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme, Political Geography Specialty Group, Ethics, Justice, and Human Rights Specialty Group, Sexuality and Space Specialty Group)**  
**Room:** Room 105, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): Austin Kocher, The Ohio State University, Department of Geography; Dominique Moran, University of Birmingham; Nick Gill, Exeter University  
 CHAIR(S): Austin Kocher, The Ohio State University, Department of Geography  
**12:40** Luca Follis\*, Lancaster University, *Financializing Carceral Spaces: Probation, Parole and Speculative*

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*Capital.*

**1:00** OLIVIER MILHAUD\*, University Paris-Sorbonne, UMR ENeC CNRS, *A theoretical framework for confinement (prisons, distance, discontinuities, France).*

**1:20** Steve Herbert\*, University of Washington, *Banished Forever? Redeeming the Ostracized Life Prisoner.*

**1:40** Julie De Dardel\*, University of Geneva, *Ethics in and after the field in prison research.*

Discussant(s): Austin Kocher, The Ohio State University, Department of Geography

## **1406. Geographies of South Asian Migration and Diasporas (Sponsored by Asian Geography Specialty Group, Cultural Geography Specialty Group)**

*Room:* Room 107, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Christabel Devadoss, West Virginia University; Ishan Ashutosh, Indiana University

CHAIR(S): Ishan Ashutosh, Indiana University

**12:40** Christabel Devadoss\*, West Virginia University, *The Indian Tamil diaspora: Soundscapes and scalar identity.*

**1:00** Ishan Ashutosh\*, Indiana University, *South Asian Diasporas and the 1965 Immigration and Nationality Act.*

**1:20** Zhixi Zhuang, PhD\*, School of Urban & Regional Planning, Ryerson University, Canada, *South Asian Place-making in Suburban Toronto.*

**1:40** Kavitha Ramsamy\*, Rutgers University, *Migration, Racialization and Urban Conflict: the Case of Jersey City.*

**2:00** Melissa Erica Holmes\*, University of Tennessee, *Community Forming Practices of Burmese Refugees in the United States.*

## **1407. "Reflections on the Resource-Curse: Continuity or Change? The Story Thus Far" (Sponsored by Africa Specialty Group)**

*Room:* Room 108, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Agatha Siwale, Central European University (CEU); Lydia Osei, University of Western Ontario

CHAIR(S): Agatha Siwale, Central European University (CEU)

Introducer: Agatha Siwale

**12:45** Fiona M. Haslam McKenzie\*, University of Western Australia, *Labour force mobility in the Australian mining industry: Mixed social and economic benefits.*

**1:05** Piseth Keo\*, National University Of Singapore - Singapore, *Discourse, Power, Institution: Political Ecology of Community-Based Natural Resource Management.*

**1:25** Hillary Waters\*, University of Minnesota - Minneapolis, *"We have even stopped waiting": Community (im) mobilization in polluted neighborhoods in Mufulira and Kabwe, Zambia.*

**1:45** Lydia Osei\*, University of Western Ontario; Godwin Arku, Western University; Isaac Luginaah, Western University, *Motivation to engage in artisanal small-scale mining: tales from youth in rural Ghana..*

Discussant(s): Agatha Siwale, Central European University (CEU)

## **1408. Agriculture and Water (Sponsored by Rural Geography Specialty Group)**

*Room:* Room 109, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Christopher R. Laingen, Eastern Illinois University

CHAIR(S): William H. Renwick, Miami University

**12:40** Jason P Julian\*, Texas State University; Kirsten de Beurs, Oklahoma University; Braden Owsley, Oklahoma University; Robert Davies-Colley, NIWA; Anne-Gaelle Ausseil, Landcare Research, *River water quality changes in New Zealand over 26 years: Responses to land use intensity.*

**1:00** Savannah Cooley\*, Clark University, *Using Simulated ECOSTRESS Level 3 Evapotranspiration Data to*

*Assess the Impact of Drought and Evaluate Potential Improvements to Agricultural Water Management in Guanacaste, Costa Rica.*

**1:20** Landon Yoder\*, Indiana University; Rinku Roy Chowdhury, Clark University, *Farmer collective action and the restoration of Everglades water quality.*

**1:40** William H. Renwick\*, Miami University; Michael J Vanni, Department of Biology, Miami University; Thomas J Fisher, Department of Statistics, Miami University; Emily L Morris, Department of Biostatistics, University of Michigan, *Effects of land management on corn belt water quality: a 21-year study.*

## **1409. Dendrochronology I: Dendroclimatology**

*Room:* Room 110, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Lauren Stachowiak, University of Tennessee

CHAIR(S): James H. Speer, Indiana State University

**12:40** Aaron Jacob Snow\*, Brigham Young University, *Patterns of the Past: Mountain Hemlock and Pacific Northwest Climate.*

**1:00** Matthew F. Bekker\*, Brigham Young University, *Streamflow Reconstructions for the Provo River, northern Utah.*

**1:20** Junzhou Zhang\*, Lanzhou University, Harvard Forest; Xiaohua Gou, Lanzhou University; Ming Lu, Lanzhou University; Fen Zhang, Lanzhou University; Neil Pederson, Harvard Forest, *Intra-Annual Stem Radial Increment Response of Three Coniferous Species to Climate Factors in Northwest China.*

**1:40** Nicole Davi, Ph.D.\*, William Paterson University; Rosanne D'Arrigo, Ph.D., Lamont-Doherty Earth Observatory; Rose Oelkers, Lamont-Doherty Earth Observatory & William Paterson University; Jessica Geary, William Paterson University; Reyes Chandler-Michelle, William Paterson University; Caroline Leland, Lamont-Doherty Earth Observatory & Department of Earth and Environmental Science, Columbia University; Mukund Palat Rao, Lamont-Doherty Earth Observatory & Department of Earth and Environmental Science, Columbia University, *Developing improved climate reconstructions for Central Asia.*

**2:00** James H. Speer, PhD\*, Indiana State University; Moinuddin Ahmed, PhD, Indiana State University, *Dendroclimatic Reconstruction in the Gilgit-Baltistan Region of the Himalayas in Pakistan.*

## **1410. Historical Ecology 1 (Sponsored by Biogeography Specialty Group)**

*Room:* Room 111, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Yi-Chen Wang, National University of Singapore; Travis Longcore, University of Southern California; Chris Larsen, University At Buffalo

CHAIR(S): Travis Longcore, University of Southern California

**12:40** Linda R. Barrett\*, University of Akron; Robert P. Barrett, University of Akron, *Reconstructing Nineteenth Century Farm Woodlots in Richland County, Ohio.*

**1:00** Jeffrey Olson\*, University of Wisconsin - Whitewater; Darla K Munroe, The Ohio State University, *Land Tenure and Forest Change: An Historical GIS Approach.*

**1:20** Alison Adams, MS\*, University of Vermont, Gund Institute for Ecological Economics; Jennifer Pontius, PhD, University of Vermont, US Forest Service; Gillian Galford, PhD, University of Vermont, Gund Institute for Ecological Economics; Scott Merrill, PhD, University of Vermont; David Gudex-Cross, MS, University of Vermont, *75 years of forest conversion in the Northeast: historical patterns and future projections.*

**1:40** Travis Longcore\*, University of Southern California; Nina Noujdina, University of Southern California; Peter Dixon, Catalina Island Conservancy, *Environmental*

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*Niche Modeling Generates Hypotheses of Potential/Historical Natural Vegetation: A California Channel Islands Case Study.*

**1411. Critical Geographies of Migration I**

Room: Room 200, Hynes, Second Level (Panel Session)

ORGANIZER(S): Katharyne Mitchell, University of Washington; Reece Jones, University of Hawaii at Manoa

CHAIR(S): Katharyne Mitchell, University of Washington

Panelists: Maribel Casas-Cortes, Hunt Fellow; Sebastian Cobarrubias, University of North Carolina - Charlotte; Glenda Garelli; Michael Collyer, University of Sussex; Martina Tazzioli; Polly Pallister-Wilkins, University of Amsterdam

**1412. Resident-participation and co-creation in urban contexts**

Room: Room 201, Hynes, Second Level (Paper Session)

ORGANIZER(S): Kristin Reichborn-Kjennerud, The Oslo and Akershus University College of Applied Sciences

CHAIR(S): Kristin Reichborn-Kjennerud, The Oslo and Akershus University College of Applied Sciences

12:40 Kristin Reichborn-Kjennerud\*, The Oslo and Akershus University College of Applied Sciences, *Participation and governance in the edible city.*

12:56 Merlin Chatwin\*, University of Western Ontario; Godwin Arku, PhD, University of Western Ontario, *Context Matters: Analyzing the capabilities and constraints in an open government initiative in Sekondi-Takoradi.*

1:12 Andrew Morgan\*, Department of Geography, University of Toronto, *Everyday Evaluations of Public Participation by Urban Planners.*

1:29 Kvetoslava Matlovicova\*, University of Presov; Rene Matlovic, University of Presov, *PPT Destination Marketing Based on Participation Of Marginalized Communities. Spi'ský Hrhov village (Slovakia) case study.*

1:46 Koji Ohnishi\*, University of Toyama, *Young people participation for city community renovation in Toyama city, Japan.*

2:03 Enora Robin\*, University College London, City Leadership Lab, *Urban Knowledge Formation: designing for more inclusive and adaptable futures.*

**1413. Checking in on the failures and accomplishments of green capitalism**

Room: Room 202, Hynes, Second Level (Paper Session)

ORGANIZER(S): Patrick Bigger, Lancaster University; Jessica Dempsey, University of Victoria

CHAIR(S): Patrick Bigger, Lancaster University

12:40 Morgan Robertson\*, University of Wisconsin - Madison, *"Governed by no apparent principle": The history and uses of Ratio Multipliers in Ecosystem Markets.*

1:00 Tracey Osborne\*, University of Arizona, *Indigenous REDD: Rethinking Climate Change Mitigation in Amazonian Forests.*

1:20 Adeniyi P. Asiyanbi\*, SOAS, University of London, *Rethinking neoliberal natures: Foucault, REDD+, and markets-in-the-making.*

1:40 Leigh Johnson\*, University of Oregon, *Paying ex gratia: Recalcitrant subjects and weather insurance relations beyond contract.*

2:00 Jessica Dempsey\*, University of British Columbia; Patrick Bigger, Lancaster, *Conservation finance: producing biodiversity as an asset class.*

**1414. Careers and Professional Development Paper Session (Sponsored by AAG Careers and Professional Development Theme)**

Room: Room 203, Hynes, Second Level (Paper Session)

ORGANIZER(S): Mark Revell, American Association of Geographers

CHAIR(S): Jo Beth Mullens, Keene State College

12:40 Jeffrey W. Lash\*, University of Houston Clear Lake, *ArcGIS Online and the Professional Development of Primary and Secondary Teachers.*

1:00 Sharon C. Cobb\*, University of North Florida, *Critical Thinking and Competency Based Skills for Geographers.*

1:20 Emmanuel Stefanakis\*, University of New Brunswick, *Education and Training on Geospatial Development.*

1:40 Remi Alapo\*, Global Management Consulting, *The Role of Culture on the Leadership of Women.*

2:00 Jo Beth Mullens\*, Keene State College, *Are Our Students Career Ready? An Evaluation of Young Adults Participating in the Student Conservation Association Internship Program.*

**1415. How to shine: Polish your Resume and Cover Letter (Sponsored by AAG Careers and Professional Development Theme)**

Room: Room 204, Hynes, Second Level (Panel Session)

ORGANIZER(S): Niem Huynh, American Association of Geographers

CHAIR(S): Nick Kelch, Esri

Panelists: Niem Huynh, American Association of Geographers; Nick Kelch, Esri

**1416. Open Source Software in Geography: Theories, Developments, and Pathways toward Openness II (Sponsored by Cyberinfrastructure Specialty Group, Applied Geography Specialty Group, Communication Geography Specialty Group)**

Room: Room 205, Hynes, Second Level (Panel Session)

ORGANIZER(S): Sam Stehle, The Pennsylvania State University; Matthew Michael Haffner, Oklahoma State University - Stillwater, OK; Jesse Piburn, Oak Ridge National Laboratory

CHAIR(S): Sam Stehle, The Pennsylvania State University  
Panelists: Shaowen Wang, University of Illinois at Urbana-Champaign; Robert N. Stewart, Oak Ridge National Laboratory; Britta Ricker, University of Washington Tacoma; Serge Rey, Arizona State University; Grant McKenzie, University of Maryland, College Park

**1417. Information Geographies: Data, democracy, and improving the world with critical VGI (Sponsored by Geographic Information Science and Systems Specialty Group, AAG Mapathon, Cartography Specialty Group, Communication Geography Specialty Group)**

Room: Room 206, Hynes, Second Level (Panel Session)

ORGANIZER(S): Monica G. Stephens, University At Buffalo; Stefano De Sabbata, University of Leicester

CHAIR(S): Monica G. Stephens, University At Buffalo

Introducer: Stefano De Sabbata

Introducer: Monica G. Stephens

Discussant(s): Dorothea Johanna KLEINE, University of Sheffield

Panelists: Taylor Shelton, University of Kentucky; Catherine D'Ignazio, Emerson College; Kate Chapman; Susan Wolfenbarger, American Association for the Advancement of Science

**1419. Monitoring Water Availability**

Room: Room 210, Hynes, Second Level (Paper Session)

ORGANIZER(S): RDK Herman, National Museum of the American Indian

CHAIR(S): Mike Pease, Central Washington University

12:40 Blake A. Walter\*, Kansas State University, *Enhanced spatial inventory of artificial water impoundments in North America.*

1:00 Jana E. Archer\*, East Tennessee State University, *Identifying untapped potential for recycled water use using geospatial analysis: A comparative study of Florida and California in 2009.*



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**1:20** Fengyun Sun\*, School of Geographic Sciences, East China Normal University, Shanghai, China; Alfonso Mejia, Department of Civil and Environmental Engineering, The Pennsylvania State University, University Park, USA; Yue Che, Shanghai Key Laboratory of Urbanization and Ecological Restoration, East China Normal University, Shanghai, China; Wei-Ning Xiang, Department of Geography and Earth Sciences University of North Carolina at Charlotte, NC, USA, *Water yield responses to climate and watershed characteristics across spatiotemporal scales: A hydrological model combined with boosted regression tree.*

**1:40** Mike Pease\*, Central Washington University, *Next Time! Drought Mitigation and Reallocation Mechanisms.*

**2:00** Kamal Alsharif, Ph. D.\*, University of South Florida, School of Geosciences; Anamarie Rivera, University of South Florida, School of Geosciences, *Reclaimed Water Usage for Lawn Irrigation and Its Impact on Water Quality.*

**1421. Models, methods, and GIS applications in water and agriculture (Sponsored by Geographies of Bread and Water in the 21st Century Featured Theme)**

*Room:* Room 301, Hynes, Third Level (Paper Session)

ORGANIZER(S): Bread and Water

CHAIR(S): Liz Allen, Washington State University

**12:40** Sonali McDermid\*, New York University; Deepti Singh, Ph.D., Columbia University; Benjamin Cook, Ph.D., NASA Goddard Institute for Space Studies/Columbia University; Carlo Montes, Ph.D., NASA Goddard Institute for Space Studies; Michael Puma, Ph.D., Columbia University, *Impacts of Agricultural Landuse and Management on the South Asian Regional Climate.*

**1:00** Erin Kelly\*, Southern CT State University; Patrick Heidkamp, Southern CT State University; Anthony Vignola, Southern CT State University, *Assessing the Transition Potential of 3D Ocean Farming in Long Island Sound.*

**1:20** Atilla Karatas\*, Marmara University, *Distribution and Amount Definition of Surface Runoff in River Basins: Ergene River Basin (NW Turkey) Sample.*

**1:40** Bangshuai Han\*, Ball State University; Benner Shawn, Boise State University; Alejandro Flores, Boise State University, *Projecting the impact of climate change and LCLUC on future water scarcity in an irrigation intensive semi-arid region using an integrated modeling approach.*

**2:00** Liz Allen, PhD\*, Washington State University; Brad Gaolach, PhD, Washington State University; Sasha Richey, PhD, Washington State University; Julie Padowski, PhD, Washington State University; Michael Brady, PhD, Washington State University; Kirti Rajagopalan, PhD, Washington State University; Kevan Moffet, PhD, Washington State University; Doug Collins, PhD, Washington State University, *Identifying Stakeholder Perspectives on Urban Food System Resilience.*

**1422. New/Critical Approaches to Water and Food Security 3: Water-Energy Nexus Security (Sponsored by Cultural and Political Ecology Specialty Group, Human Dimensions of Global Change Specialty Group, Geographies of Bread and Water in the 21st Century Featured Theme, Water Resources Specialty Group)**

*Room:* Room 302, Hynes, Third Level (Paper Session)

ORGANIZER(S): Lily A. House-Peters, California State University, Long Beach; Laurel Bellante; Sarah Kelly-Richards, School of Geography and Development, University of Arizona

CHAIR(S): Lily A. House-Peters, California State University, Long Beach

**12:40** Rebecca J. McMillan, MA\*, University of Toronto, *"No hay!": Scarcity discourses and the roots of Venezuela's 2016 water-energy crisis.*

**1:00** Marissa Tamar Isaak\*, University of Arizona, *Beyond Water Augmentation: Multiple Meanings of Water in the Israel Model of Water Management.*

**1:20** Surabhi Karambelkar\*, University of Arizona - School of Geography & Development, *One Person's Security Is Another Person's Insecurity? Environmental Securitization and Its Interplay with the Water-Energy-Food Nexus in the Ganges Basin.*

**1:40** Susan J. Gilbertz\*, Montana State University-Billings, *Blind Fields of Fracking: Accidents, Fractured Government and the Alienation of the Un-blind.*

Discussant(s): Sarah Kelly-Richards, School of Geography and Development, University of Arizona

**1423. The Where of Rights and the Right to the City I: Accessing Rights and Justice (Sponsored by Political Geography Specialty Group, Urban Geography Specialty Group, Socialist and Critical Geography Specialty Group)**

*Room:* Room 303, Hynes, Third Level (Paper Session)

ORGANIZER(S): Joaquin Villanueva, Gustavus Adolphus College; Don Mitchell, Syracuse University

CHAIR(S): Don Mitchell, Syracuse University

**12:40** Zachary Levenson\*, University of California - Berkeley, *Evictions Beyond Rationality: How Squatters Achieve (Rather than Receive) the Right to the City in South Africa.*

**1:00** Andrew Burridge, University of Exeter, UK; Nick Gill, University of Exeter, UK, *How Space Antagonises Justice: Legal Geographies of (In)Access to Rights.*

**1:20** Joaquin Villanueva\*, Gustavus Adolphus College, *Theorizing Access: Justice, Rights, and Legal Knowledge.*

**1:40** Andy Walter\*, University of West Georgia; Katherine B. Hankins, Georgia State University, *Where is the trust? Securing a right to the city through the creation of a community land trust in Vine City, Atlanta, GA.*

Discussant(s): Deborah G. Martin, Clark University

**1424. Vital Geographies 1**

*Room:* Room 304, Hynes, Third Level (Paper Session)

ORGANIZER(S): Gerry Kearns, Maynooth University; Simon M. Reid-Henry, Queen Mary, University of London

CHAIR(S): Gerry Kearns, Maynooth University

**12:40** Simon M. Reid-Henry\*, Queen Mary, University of London, *Protecting Life: the vital politics of welfare before the welfare state.*

**1:00** Suvi Alt\*, University of Groningen, *The Politics of Seeds: Articulations of Worlds.*

**1:20** Juliet J Fall, PhD\*, University of Geneva, *Killer categories: vital invaders, biosecure nations.*

**1:40** Garnet Kindervater\*, Dartmouth College, *Life in the Anthropocene: Humanism, Vitality, and Critique.*

**2:00** Jemima Repo\*, Newcastle University, *The Biopolitics of Transgender Sterilization in Finland.*

**1425. (Un)settled Sojourners in the City: The Permanence of Temporary Migrants 1 (Sponsored by Population Specialty Group, Urban Geography Specialty Group, Ethnic Geography Specialty Group)**

*Room:* Room 305, Hynes, Third Level (Paper Session)

ORGANIZER(S): Elizabeth Chacko, The George Washington University; Marie D. Price, George Washington University

CHAIR(S): Marie D. Price, George Washington University

**12:40** Gabrielle Desilets\*, Institut National de Recherche Scientifique-Urbanisation, Culture, Société, *Consuming the neighbourhood? Temporary highly skilled Migrants in Montreal's Mile End.*

**1:00** Wan Yu\*, Binghamton University, *The Highly Skilled in*

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*Limbo: Employment Situation and Spatial Distribution of Skilled Temporary Labor Migrants in The United States.*

**1:20** Sailiemanu Lilomaiaava-Doktor\*, University of Hawaii-West Oahu, *Pacific Islanders (Samoans and Tongans) in the United States, the Hawaiian Case..*

**1:40** Paul Hodge\*, University of Newcastle; Faith Curtis, University of Newcastle, *Nurturing strengths and capacities: the role of Asylum Seeker and Refugee support and advocacy organisations in Australia.*

**2:00** Elizabeth Chacko\*, The George Washington University, *Aspirations and expirations: The circumscribed integration of international students.*

**1426. Property in Practice: Anti-Eviction Organizing and Solidarity in Boston**

*Room:* Room 306, Hynes, Third Level (Panel Session)

ORGANIZER(S): Josh Akers, University of Michigan-Dearborn

CHAIR(S): Josh Akers, University of Michigan-Dearborn

Introducer: Josh Akers

Discussant(s): Kathryn Wells, George Washington University

Panelists: Helen Matthews, Boston Displacement Mapping Project; Malcolm Torrejon Chu, Right To the City Alliance; Darnell Johnson, Vida Urbana Right To the City; Jeffrey Wilson, University of Arizona - Geography & Development

**1428. New Natures and Novel Landscapes I: Critical Geographies of Conservation and Wildlife Management in the Anthropocene (Sponsored by Animal Geography Specialty Group)**

*Room:* Room 308, Hynes, Third Level (Paper Session)

ORGANIZER(S): John Patrick Connors, Boston University;

Anne Short Gianotti, Boston University

CHAIR(S): John Patrick Connors, Boston University

**12:40** Rocio Lalanda\*, *Understanding Agricultural-Land Conservation from the Perspective of Rural Landowners and Land Trusts: A Case Study from the U.S..*

**1:00** Sonja K. Pieck\*, Bates College, *Nature/Culture/Memory: Germany's Contested Borderlands.*

**1:20** Robert Anderson, University of Washington, *From "weed" to "host": ecological restoration as biopolitics for the Anthropocene.*

**1:40** Christopher Reed Coggins, PhD, Bard College at Simon's Rock; Jesse Minor, ABD\*, University of Arizona; Bixia Chen, PhD, University of the Ryukyus, *Anthropocene Natures, Ancient Landscapes: the Political Ecology of Fengshui Forest Conservation in Southern China.*

**2:00** Brian Petersen, PhD\*, Northern Arizona Univ., *Novelty, tradeoffs, and contested natures in whitebark pine systems in western North America.*

**1429. Land Use and Land Cover Change**

*Room:* Room 309, Hynes, Third Level (Illustrated Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): FENG XU

**12:40** Hongli Yang, Murray State University; Qiaofeng (Robin) Zhang\*, Murray State University, *Habitat mapping and modeling using Landsat imagery and lidar data for the Mammoth Cave National Park.*

**12:47** Jeronimo Rodriguez\*, Temple University; Victor Hugo Gutierrez-Velez, Temple University, *Assesment of the territorial transformation process in the Colombian Altillanura region trough remotely sensed information.*

**12:54** Linyu Wang\*, Yueyan Liu; Biin Zhang; Jinlin Men, *Scene-level land use classification based on multi-features soft-probability cascading.*

**1:01** CHEN WANXU\*, China University of Geosciences (Wuhan), *Land use transition and their dynamic mechanism in Three-River Headwaters Region of Qinghai Province.*

**1:08** JIE ZHANG\*, China University of Geosciences(Wuhan), *Research on Urban Land Use Efficiency of Urban Agglomerations in Yangtze River Basin Based on Coordination between Land Structure and Function.*

**1:15** Jing Guo\*, Centre for Earth System Science, Tsinghua University; Peng Gong, Centre for Earth System Science, Tsinghua University, *Tracking forest conversion as a result of afforestation with Landsat time series images.*

**1:22** Bin Li\*, School of Public Management, China University of Geosciences(Wuhan); Yueyan Liu, School of Public Management, China University of Geosciences(Wuhan), *Multi-scenario land use changes simulation in Caidian using Clue-s based on Tietenberg modle.*

**1:29** WUMAIERAILI AIMAITIKALI\*, *An analysis of driving factors for land use change in minority region?with special references to Yining city of Xinjiang Uygur Autonomous Region.*

**1:36** Xuan Liu\*, *Research on landscape renewal of industrial wasteland.*

**1:43** Amelia Glinskis\*, Columbia University, *Oil Palm Expansion in the Amazon: Land Cover Change Detection, Carbon Mapping, and Social Interest Analysis under Big Industry and Smallholder Regimes.*

**1:50** FENG XU\*; Zhanqi Wang, Professor, *Study on Rural Residential Land Re-use with the Introduction of Ecological Concept in China.*

**1:57** Ye Tian\*, *Ecological Sensitivity Assessment and Partition Protection for Geological Relics of Huangshan UNESCO Global Geopark.*

**1430. Going Round in (Perfect) Circles? Exploring the Circular Economy.**

*Room:* Room 310, Hynes, Third Level (Panel Session)

ORGANIZER(S): David C. Gibbs, University of Hull

CHAIR(S): David C. Gibbs, University of Hull

Panelists: Stephanie Pincetl, UCLA; Christian Schulz, University of Luxembourg; Helen Abigail Baxter, University of Hull; Kärge Kama, University of Oxford

**1431. Urbanization of Inequity: South Asian Experience**

*Room:* Room 311, Hynes, Third Level (Paper Session)

ORGANIZER(S): Vamsi Vakulabharanam

CHAIR(S): Vamsi Vakulabharanam

**12:40** Vamsi Vakulabharanam\*, Department of Economics, University of Massachusetts Amherst; Purendra Prasad, Department of Sociology, University of Hyderabad, *Building a New Capital City in South India and the Emerging Capitalist Dynamics: Neoliberal Continuity or the Imagination of a New inclusive Capitalism?.*

**1:00** Sripad Motiram\*, University of Massachusetts - Boston; Vamsi Vakulabharanam, Ph.D., University of Massachusetts - Amherst, *How Do Class, Caste and Space Interact in Indian Cities? Some Perspectives from Hyderabad and Mumbai.*

**1:20** Danish Khan\*, University of Massachusetts - Amherst, *Political Economy of Slums, Capital Accumulation and Urban Processes in Pakistan.*

**1:40** ARPITA BISWAS\*, University of Massachusetts - Amherst, *Capitalist Accumulation and Urban Restructuring: The Interconnections Therein.*

Discussant(s): Sripad Motiram, University of Massachusetts - Boston

**1432. Social Movements and Scalar Struggles Part 1**

*Room:* Room 312, Hynes, Third Level (Paper Session)

ORGANIZER(S): Paul Bocking, York University; Pelin Asci, York University

CHAIR(S): Paul Bocking, York University

**12:40** Pelin Asci\*, York University, *Scaling up neighbourhood politics: A comparative analysis of neighbourhood*



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*struggles in Istanbul, Turkey.*

**1:00** Paul Bocking\*, York University, *Teachers' Unions, the State and Struggles over Scales of Education Policy and Governance in North America.*

**1:20** Alia Karim\*, York University, *Solidarity revisited: Canadian labour's complicity in settler-colonialism and the potential for decolonization.*

**1:40** D. Cameron Baldassarra, MA, ABD\*, McMaster University, *Dammed if you Do, Damned if you Don't Applying a multi-scalar lens to Cree resistance against the hydro-electric exploitation of their homeland in the James Bay Region of Quebec..*

**1433. Transportation Justice: The work and role of scholars and practitioners in creating transit equity**

*Room:* Room 313, Hynes, Third Level (Panel Session)

ORGANIZER(S): Neenah Estrella-Luna, Northeastern University

CHAIR(S): Neenah Estrella-Luna, Northeastern University

Introducer: Neenah Estrella-Luna

Panelists: Marcos J. Luna, Salem State University; Monica Tibbits-Nutt, 128 Business Council; Cassandra Gibbon

**1434. Smart Grid/Smart Cities (III): Constituting New Urban Practices & Materialities**

*Room:* Suite 300, Hynes, Third Level (Paper Session)

ORGANIZER(S): Harriet Bulkeley, University of Durham;

Jochen Monstadt, Darmstadt University of Technology; Rob Raven, Utrecht University

CHAIR(S): SIMON MARVIN, University of Sheffield

**12:40** Johannes Striiple, Associate Professor\*, Lund University; Harriet Bulkeley, Professor, Durham University, *Through the Keyhole: Being at Home in the Smart Grid City.*

**1:00** Ralph Horne\*, Harriet Bulkeley; Sarah Pink; Yolande Strengers; Susie Moloney; Heather Horst; Ian McShane; Wendy Steele, *The electrical everyday: Ways of knowing and realising progressive digital urbanism.*

**1:20** Ingrid Ballo\*, University of Bergen, *Alternative energy futures: Norwegian prosumers' motivations and imaginations of future energy transformations.*

**1:40** Andrés Luque-Ayala, Durham University; Jonathan Rutherford\*, LATTs, Université Paris Est, *New techno-ecologies of the smart grid: producing digital urban natures?.*

**1436. The Roepke Lecture in Economic Geography: "From Exploitation to Expropriation: Geographies of Racialization in Historical Capitalism" - Nancy Fraser - The New School for Social Research (Sponsored by Routledge, Economic Geography Specialty Group)**

*Room:* Ballroom B, Hynes, Third Level (Paper Session)

ORGANIZER(S): James T. Murphy, Clark University

CHAIR(S): James T. Murphy, Clark University

Discussant(s): Sharad Chari, University of the Witwatersrand

**1438. Inequality in urbanisation of Global South: segregation, gentrification and inaccessibility (Sponsored by China Specialty Group, Asian Geography Specialty Group, Development Geographies Specialty Group)**

*Room:* Independence East, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Jianquan Cheng, Manchester Metropolitan University; Qiyuan Wu, East China Normal University; Zhenshan Yang, Institute of Geographical Sciences at Chinese Academy of Sciences

CHAIR(S): Jianquan Cheng, Manchester Metropolitan University

**12:40** Chunhui Liu\*, Geographic and Oceanographic Sciences, Nanjing University; Shenjing He, Department of Urban Planning and Design, Faculty of Architecture, University of Hong Kong; Qiyuan Wu, The Center for Modern Chinese City Studies & School of Urban and Regional Science, East China Normal University; Chen

Zhou, Swette Center for Environmental Biotechnology, Biodesign Institute, Arizona State University, *Emerging New White-collar Workers in China and Their Restricted Social Mobility in the Post-Crisis Era.*

**12:55** Tao Song\*, Institute of Geographic Sciences and Natural Resources Research, CAS, *Chinese Pairing Aid policy for regional balanced development.*

**1:10** DAI Teqi\*, Beijing Normal University; Liao Cong, *Optimizing school allocating from effective accessibility towards equal access - a case study on Shijingshan, Beijing.*

**1:25** Jianquan Cheng\*, Manchester Metropolitan University, *Inequities in the perceived environmental health risks and interventions in a fast developing country - China.*

Introducer: Jianquan Cheng

**1:45** Qiyuan Wu\*, The Center for Modern Chinese City studies & school of urban and Regional science, East China Normal University, *Displacement and Middle Class Remake: the Production of Jiaoyufication Space in Urban Nanjing, China.*

Discussant(s): Qiyuan Wu, East China Normal University; Zhenshan Yang, Institute of Geographical Sciences at Chinese Academy of Sciences

**1439. New York, New York: Building Solidarities Across Space**

*Room:* Independence West, Sheraton, Second Floor (Panel Session)

ORGANIZER(S): Lauren Hudson

CHAIR(S): Lauren Hudson

Panelists: Lauren Hudson; Eric Goldfischer, University of Minnesota - Minneapolis; Evan Casper-Futterman, Rutgers University; Sara Thomas Black, University of Georgia

**1440. Critical Geographies of Agri-food Policy: Igniting Political Potential I (Sponsored by Cultural and Political Ecology Specialty Group, Indigenous Peoples Specialty Group, Geographies of Food and Agriculture Specialty Group)**

*Room:* Liberty B, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Alastair Iles, UC Berkeley; Garrett Graddy-Lovelace, American University School of International Service; Maywa Montenegro, ESPM, UC Berkeley

CHAIR(S): Michael Jahi Chappell, Coventry University

**12:40** Alastair Iles\*, UC Berkeley, *Escaping From Agricultural Policy Impasse: The Politics of Breaking Vicious Crisis Cycles.*

**1:00** Ann Evans Larimore\*, University of Michigan, *Can Native American agricultural policy and technical expertise influence current U.S. government agricultural policies and action?.*

**1:20** Jon Magee\*, University of Georgia, *"Languaging" the Organization: Negotiating the Politics of a Community Food Project.*

**1:35** Margiana Petersen-rockney, PhD Student, Farmer\*, University of California - Berkeley; Margiana Petersen-Rockney, Young Farmer Network, *The Landscape of US Farmer-to-Farmer Networks.*

**1:55** Gina K. Thornburg\*, Kansas State University, *Making a Living: The Promise and Pitfalls of One Alternative Agrifood Initiative.*

Discussant(s): Amy Trauger, University of Georgia

**1441. Migration and Internationalization 3: Career Paths and Labor Market Incorporation of Skilled Migrants (Sponsored by Population Specialty Group, Ethnic Geography Specialty Group)**

*Room:* Liberty C, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Micheline Van Riemsdijk, University of Tennessee; Yvonne Riano, Institute of Geography, University of Neuchâtel, Switzerland; Heike Alberts, University of Wisconsin-Oshkosh

CHAIR(S): Yvonne Riano, Institute of Geography, University of Neuchâtel, Switzerland

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**12:40** Michael C. Ewers\*, Social and Economic Survey Research Institute (SESRI), Qatar University; Nabil Khattab, Doha Institute for Graduate Studies; Zahra Babar, Center for Regional and International Studies, Georgetown University-Qatar, *Careers, expertise and life strategies of highly skilled migrants in Doha, Qatar.*

**1:00** Dorina Dedgioni, M.A.\*, Hochschule Fulda, *Experiences and Professional Integration of Highly Skilled Albanian Migrant Women Working and Living in Italy: Career Progression or Deskilling?*

**1:20** Beatriz Padilla\*, Instituto Universitario de Lisboa; Thais França, Instituto Universitario de Lisboa, *Reading academic mobility from an intersectionality perspective: the role of gender, race and social class in the experience of international academic women in Portugal.*

**1:40** Metka Hercog\*, University of Basel, *Understanding Migration Policies from Migrants' Perspective.*

**2:00** Carola Bauschke-Urban, Prof. Dr.\*, Fulda University, *Highly Skilled Migration from Developing and Emerging Countries: Gendered Careers and the Internationalization of Higher Education.*

**1442. Economic Geography III - Planning, Policy, Institutions, and Economic Performance (Sponsored by Economic Geography Specialty Group)**

**Room:** Back Bay Ballroom A, Sheraton, Second Floor (Paper Session)  
 ORGANIZER(S): Dieter Franz Kogler, University College Dublin; Jennifer Clark, Georgia Institute of Technology; Peter Kedron, Oklahoma State University  
 CHAIR(S): Jennifer Clark, Georgia Institute of Technology  
**12:40** Jun Du\*, Aston University; Tomasz Mickiewicz, Professor, Aston University; Ying Zhou, Dr., Birmingham University, *Productivity, Entrepreneurs and Big Firms in Shenzhen and Shanghai: Two Cities, Two Tales.*  
**1:00** Helen Lawton Smith\*, Birkbeck University of London; Sharmistha Bagchi-Sen, Department of Geography, SUNY-Buffalo, *Emergence and convergence in a Bio-region in the UK: the 'Golden Research Triangle' in London and the South East.*  
**1:20** Donald Anthony Planey\*, Geography, University Of Illinois, Urbana Champaign - Urbana, IL, *Chicagoland and the Planning Imperative.*  
**1:40** Patrick Kilfoil\*, McGill University, *Measuring the Impact of Spatial Planning Policies on the Economic Performance of Metropolitan Regions in the European Union.*

**1444. Urban Landscapes**

**Room:** Constitution A, Sheraton, Second Floor (Paper Session)  
 ORGANIZER(S): Program Committee  
 CHAIR(S): Gian-Claudia Sciara, Institute of Transportation Studies  
**12:40** Dimitrios Panayotopoulos\*, University College London, *The morphology of urban voids: a metabolic approach to cohesion. The case of Eleonas in Athens..*  
**1:00** Bernd Pfannenstern\*, Autonomous University of Guadalajara, Mexico, *Land Use Planning in Metropolitan Areas in Latin America: A Case Study from Guadalajara, Mexico..*  
**1:20** Qing Huang\*, China University of Geosciences(Beijing); Xinqi Zheng, China University of Geosciences(Beijing), *Analysis of urban metabolism on different land use and simulation of metabolic efficiency based on SD model.*  
**1:40** Hua Tian\*, China University of Geosciences, Beijing; Xinqi Zheng, China University of Geosciences, Beijing, *Impacts of Spatial - Temporal Changes of Urban Greenspace in Different Functional Zones on Land Surface Temperature: A Case Study of Beijing.*  
**2:00** Gian-Claudia Sciara\*, University of Texas at Austin; Sarah

A Strand, University of California, Davis, *Local land use and development decisions under SB375.*

**1445. Data Infrastructures, Nature, and Politics 2 (Sponsored by Cultural and Political Ecology Specialty Group)**

**Room:** Constitution B, Sheraton, Second Floor (Paper Session)  
 ORGANIZER(S): Eric Nost, University of Wisconsin-Madison; Jenny Elaine Goldstein, Cornell University  
 CHAIR(S): Eric Nost, University of Wisconsin-Madison  
**12:40** James J. A. Blair\*, Brooklyn College, City University of New York (CUNY), *Tracking Penguins, Stalking Petroleum: "Data Gaps" and the Politics of Marine Ecology in the South Atlantic.*  
**1:00** Helge Peters\*, University of Oxford, *Infrastructuring human dimensions in US fisheries management.*  
**1:20** Noor Johnson, PhD, National Snow and Ice Data Center, Cooperative Institute for Research in Environmental Sciences, University of Colorado Boulder; Peter Pulsifer, PhD, National Snow and Ice Data Center, Cooperative Institute for Research in Environmental Sciences, University of Colorado Boulder, *Data Infrastructures, Arctic Indigenous Knowledge, and Natural Resource Management.*  
**1:40** M V. Eitzel\*, UC Santa Cruz, *Big Data in ecology: a modeler's manifesto.*  
 Discussant(s): Luke R. Bergmann, University of Washington

**1448. Situating Smart 1: Spatial and Material Politics of Smart Urbanisation (Sponsored by Urban Geography Specialty Group)**

**Room:** Beacon D, Sheraton, Third Floor (Paper Session)  
 ORGANIZER(S): Andrew Karvonen, University of Manchester; Federico Cugurullo, Trinity College Dublin  
 CHAIR(S): Andrew Karvonen, University of Manchester  
**12:40** Simon Joss\*, University of Westminster; Matthew Cook, Open University, *Smart cities UK: between standardization and emergent local practices.*  
**1:00** Sophia Maalsen, Dr.\*, The University of Sydney; Robyn Dowling, Prof., University of Sydney; Pauline McGuirk, Prof., University of Wollongong; Sandy Burgoyne, University of Sydney, *Translating Smart in Australian Cities.*  
**1:20** Liam Heaphy\*, Maynooth University, *Articulating the smart city and the turn towards smart urbanism in Dublin.*  
**1:40** Federico Cugurullo\*, Trinity College Dublin, *Revealing experimental smart cities: the Frankenstein city and the sustainability challenges of De-composed Urbanism.*  
**2:00** Ignacio Perez, MSc Urban Development Planning UCL\*, University College of London; Ignacio Perez, MSc Urban Development Planning, University College of London, *Cultural Circuits and Cosmopolitical Orders of Experimentation in the Smart City: The case of Santiago Ciudad Inteligente.*

**1449. GIS Worker Co-ops: Prospects and Experiments (Sponsored by AAG Careers and Professional Development Theme)**

**Room:** Beacon E, Sheraton, Third Floor (Panel Session)  
 ORGANIZER(S): Amanda Huron, University of the District of Columbia; Anna Feigenbaum, Bournemouth University  
 CHAIR(S): Amanda Huron, University of the District of Columbia  
 Panelists: Amanda Huron, University of the District of Columbia; Anna Feigenbaum, Bournemouth University; Ryan Burns, University of Calgary

**1450. Excavating the Missing Macroeconomic Layer in Geographic and Economic Analysis III (Sponsored by Economic Geography Specialty Group)**

**Room:** Beacon F, Sheraton, Third Floor (Paper Session)  
 ORGANIZER(S): Janelle Knox-Hayes, MIT; Gary Dymski

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CHAIR(S): Janelle Knox-Hayes, MIT

**12:40** Jordan Shipley\*, University of Missouri-Kansas City, *Space in Political Economy: Toward Interdisciplinary Foundations for Macroeconomic Policy*.

**1:00** Ben Wilson, PhD, SUNY Cortland; Neal Wilson\*, University of Missouri - Kansas City, *"Spatial Analysis in Pursuit of Equity for Future Generations"*.

**1:20** Alex Sphar, Ph.D.\*, Clark University, *Capitalist Variegation and the case of contemporary Brazil*.

Discussant(s): Gary Dymski

## **1453. Rural migrants in Chinese Cities: Challenges and Opportunities-1 (Sponsored by China Specialty Group)**

Room: Dalton A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Xiaobo Su, University of Oregon; Xiang KONG, East China Normal University

CHAIR(S): Xiang KONG, East China Normal University

**12:40** Jacob A. Watkins\*, Western Michigan University, *Examining Upward Mobility for Internal Migrants in Shanghai's Urban Renewal Neighborhoods*.

**1:00** Jie Li\*, King's College London; Nick Manning, King's collage London, *Sociospatial exclusion, precarious urban life and mental health of internal migrants in Shanghai*.

**1:20** Yingzhi Qiu\*, Sun Yat-sen University; Zhigang Li, Wuhan University; Wubin Li, Shaanxi Normal University, *Research on Working Activity of Chinese Female Migrants: Based on A Survey of 29 Provinces and an Empirical Research of Shaanxi Province*.

**1:40** Xiang KONG\*, East China Normal University; Yinhua TAO, East China Normal University, *A Study for the Impact of Migrant Children's After-school Spatial Behavior on Their Urban Integration: Based on the Investigation of Students in Jingdong Primary School, Shanghai*.

Discussant(s): Xiaobo Su, University of Oregon

## **1455. Improvisation: the art of making do (3) - panel discussion (Sponsored by Political Geography Specialty Group, Cultural Geography Specialty Group, Economic Geography Specialty Group)**

Room: Hampton A, Sheraton, Third Floor (Panel Session)

ORGANIZER(S): Martin Muller, Universität Zürich

CHAIR(S): Martin Muller, Universität Zürich

Introducer: Martin Muller

Panelists: Oliver Ibert, Leibniz-Institute for Regional Development and Structural Planning Erkner; Stephen Young, University of Wisconsin - Madison; Sarah Hughes, University of Durham; Derek McCormack, University of Oxford

## **1456. Feminist Political Geographies 3: Bridging Feminist Political and Economic Geographies (Sponsored by Geographic Perspectives on Women Specialty Group, Cultural Geography Specialty Group)**

Room: Hampton B, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Jill Williams, Southwest Institute for Research on Women; Vanessa Anne Massaro, Bucknell University; Caroline Faria, University of Texas - Austin

CHAIR(S): Caroline Faria, University of Texas - Austin

**12:40** Vanessa Anne Massaro, PhD\*, Bucknell University, *"In and outta jail": State reliance on family support networks through prisons' revolving door*.

**1:00** MinKyung Koh\*, Ohio State University, *From brides to workers: the multicultural political economy of foreign brides in South Korea*.

**1:20** Sharlene L. Mollett\*, University of Toronto, *The Making of Residential Tourism Space: Land, Servitude and Human Rights in Panama*.

**1:40** Dominica K. Whitesell\*, University of Texas - Austin, *Gowns, Globalization, and "Global Intimate Mapping": Using GIS to Ground Neoliberal Shifts in*

*Uganda's Wedding Industry*.

**2:00** Adrian N. Mulligan\*, Bucknell University, *St. Patrick's Day Parades and the Queer Wanted*.

## **1457. The Dark Side of Open Data - Part One**

Room: Gardner A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Pamela Jean Robinson, Ryerson University;

Peter A. Johnson, University of Waterloo; Teresa Scassa, University of Ottawa

CHAIR(S): Peter A. Johnson, University of Waterloo

**12:40** Suthee Sangiambut\*, McGill University - Montreal, QC; Tenille E Brown, University of Ottawa, *Interrogating the open in open data from interdisciplinary perspectives*.

**1:00** Renee Sieber\*, McGill University, *Façades of Openness in Government*.

**1:20** Elizabeth F Judge\*, University of Ottawa, Faculty of Law; Tenille E Brown, University of Ottawa, *"Tort, Open Data, and the Geoweb: A Framework for Assessing Negligence"*.

**1:40** Marcy Burchfield\*, The Neptis Foundation, *When a mandate for transparency and open data culture is not quite ready for prime time*.

**2:00** Jon Corbett\*, University of British Columbia Okanagan; Shelley Cook, University of British Columbia Okanagan, *How open is your redlining policy? Exploring geospatial data sharing tools to improve homeless service provision in British Columbia, Canada*.

## **1458. Geographic Education, Place, and Experience (Sponsored by Geography Education Specialty Group)**

Room: Gardner B, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Jonathan Wessell, Grand Valley State University

CHAIR(S): Jonathan Wessell, Grand Valley State University

**12:40** Stacey L. Kerr, PhD\*, Central Michigan University, *Conversations on Lack: Teachers Discuss Geography Education*.

**1:00** Michael N. Solem\*, American Association of Geographers, *Geographical Knowledge, Ethics Education, and Moral Thinking in Secondary Schools*.

**1:20** Nicole LeDuc Graziano, MFA\*, Central Michigan University; Sarah Hall, MFA, Independent artist, *Sea Monsters and Memory Keepers: How Puppetry Celebrated Place*.

**1:40** Jerry T. Mitchell, PhD\*, University of South Carolina; Julia C. Dawson, W. A. Perry Middle School, *Bitter Sweets: Mapping Pineapple, Slavery, and Hospitality*.

**2:00** Mary D. Curtis, Ph.D.\*, University of Texas at Arlington, *Geospatial Technologies in High School Geography: A Need for Stronger Pedagogy*.

## **1459. Energy, Climate, and Carbon**

Room: Fairfax A, Sheraton, Third Floor (Interactive Short Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Henry Herndon

**12:40** Frances Ackerman, University of Calgary; David Goldblum\*, University of Calgary, *Fine-scale Patterns of Rocky Mountain (Alberta, Canada) Trees' Radial Growth Response to Monthly Climate*.

**12:47** James George Baldwin, PhD\*, Boston University, *Accuracy Assessment of the Baldwin Sue Wing Spatiotemporal Carbon Emissions Model*.

**12:54** Shengpan Lin\*, Michigan State University; R. Jan Stevenson, Michigan State University, Department of Integrative Biology, *Climate Change and Algal Blooms*.

**1:01** Tao Yang\*, Key laboratory of Poyang Lake wetland and watershed research, Ministry of education (Jiangxi Normal University); Lili Wang, School of geography



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and environment, Jiangxi normal university, *Hold breath when water covers the plants in the Poyang Lake wetland of China.*

- 1:08** Yuan Jiang, Beijing Normal University, College of Resources Science & Technology; Muyi Kang\*, Beijing Normal University, College of Resources Science & Technology, *Lingering response of radial growth of *Picea crassifolia* to climate at different altitudes in the Qilian Mountains, Northwest China.*
- 1:15** Ansel Olive Klein\*, UC Berkeley; Ron Amundson, Professor, UC Berkeley, *Geospatial applications for climate sensitivity of soil carbon storage in the Mojave Desert.*
- 1:22** Yaolin Liu\*, School of Resource and Environmental Science, Wuhan University; Qingsong He, School of Resource and Environmental Science, Wuhan University, *Assessment of the carbon sequestration capacity of forest ecosystems and ecological compensation based on the surface area: A case study of the Hubei Province in China.*
- 1:29** Jessica Treslar\*, Montclair State University, *The Potential for Biofuel Production in Missouri.*
- 1:36** Zhen Li\*, Lanzhou university, *Spatial Difference Analysis of Household Energy Consumption in China.*
- 1:43** Henry Herndon, MS Candidate\*, University of New Hampshire; Catherine Ashcraft, PhD, University of New Hampshire; Clay Mitchell, PhD, University of New Hampshire, *Collaboration in Energy Policy-making: The Evolving Regulatory Role of the New Hampshire Public Utilities Commission.*
- 1:50** Man Liang\*, *Spatial Difference Analysis of Household Energy Consumption in China.*
- 1:57** Yuan Jiang\*, Beijing Normal University, College of Resources Science & Technology, *Lingering response of radial growth of *Picea crassifolia* to climate at different altitudes in the Qilian Mountains, Northwest China.*
- 2:04** Shuwen Niu\*, *Spatial Difference Analysis of Household Energy Consumption in China.*

**1460. Hazards Risks and Disasters 3 - Seismic Hazards (Sponsored by Hazards, Risks, and Disasters Specialty Group)**

*Room: Fairfax B, Sheraton, Third Floor (Paper Session)*

ORGANIZER(S): Eric Tate, University of Iowa; Johanna L. Ostling

CHAIR(S): Johanna L. Ostling

- 12:40** Ying Hsu Song\*, China University of Geosciences(Wuhan); Ruiqing Niu, China University of Geosciences(Wuhan); Jingfa Zhang, ICD,CEA,China; Yongsheng Li, ICD,CEA,China; Yi Luo, ICD,CEA,China, *Determination of Seismic Intensity Based on Coseismic Deformation Field and Geographically Weighted Regression Method.*

- 1:00** Peter A. Rogerson\*, SUNY - BUFFALO, *Statistical Evidence for Long-Range Space-Time Relationships among Earthquakes.*

- 1:20** Frances Rodriguez Vangort, Geography Department, UNAM\*, Universidad Nacional Autonoma de Mexico; Carol Hernandez-Rodriguez, PhD Candidate, Sociology Department, Portland State University - Portland, OR, *Volcanic Risk and Vulnerability: An Assessment of Two Rural Communities in the Lahar Area of the Volcano Fuego de Colima in Mexico.*

- 1:40** Carolina Martinez\*, Pontificia Universidad Catolica De Chile; Rafael Aránguiz, Universidad Católica de la Santísima Concepción, Chile, *Tsunamis and vulnerabilities in south-central Chile.*

- 2:00** Paula Villagra\*, Universidad Austral De Chile -, Carolina Quintana, Laboratorio de Paisaje y Resiliencia Urbana, Universidad Austral de Chile; Francisco Aros, Universidad Austral de Chile, *Governance overlap in tsunami prone environments: a comparative spatial*

*analysis of the adaptive response of emergency experts and the community.*

**1462. Coastal and Aeolian Geomorphology I: Coastal Geomorphology (Sponsored by Coastal and Marine Specialty Group, Geomorphology Specialty Group)**

*Room: Kent, Sheraton, Third Floor (Paper Session)*

ORGANIZER(S): Phillip P. Schmutz, University of West Florida; Patrick Barrineau, Texas A&M

CHAIR(S): Phillip P. Schmutz, University of West Florida

- 12:40** Norbert P. Psuty\*, Rutgers University; Katherine Ames, Rutgers University; Andrea spahn, Rutgers University; Elizabeth Haussner, Rutgers University, *Evolution of the Coastal Dune/Beach System at Chincoteague National Wildlife Refuge and Impacts on Infrastructure Relocation.*

- 1:00** Phillipe Alan Wernette\*, Texas A&M University, Department of Geography; Chris Houser, University of Windsor, Department of Earth and Environmental Sciences; Bradley Weymer, GEOMAR Helmholtz Center for Ocean Research Kiel; Mark Everett, Texas A&M University, Department of Geology and Geophysics; Michael P. Bishop, Texas A&M University, Department of Geography; Bobby Reece, Texas A&M University, Department of Geology and Geophysics, *Spatially variable framework geology as a driver of barrier island development.*

- 1:20** Paul A. Gares\*, East Carolina University; Thad Waskiewicz, East Carolina University; Patrick Hesp, Flinders University; Ian J Walker, University of Victoria; Madison L Heffentrager, East Carolina University; Kailey Adams, East Carolina University; Alexander Smith, University of Ulster, *Development of Pothole Blowouts and their role in Dune Field Evolution.*

- 1:40** Chris Houser, University of Windsor; Phil Wernette, Texas A&M University; Brad Weymer, Texas A&M University, *Scale dependent behavior of the foredune: Implications for barrier island response to storms and sea level rise.*

- 2:00** Nicholas M Enwright\*, U.S. Geological Survey, Wetland and Aquatic Research Center; Lei Wang, Ph.D., Louisiana State University; Sinéad M Borchert, Borchert Consulting; Richard H. Day, U.S. Geological Survey, Wetland and Aquatic Research Center; Laura C. Feher, U.S. Geological Survey, Wetland and Aquatic Research Center; Michael J. Osland, Ph.D., U.S. Geological Survey, Wetland and Aquatic Research Center, *The impact of elevation uncertainty on barrier island habitat mapping.*

**1464. Advances in Cyanobacteria Research: Monitoring, Modeling, and Data Visualization 1 (Sponsored by Remote Sensing Specialty Group)**

*Room: Boylston, Marriott, First Floor (Paper Session)*

ORGANIZER(S): Amber Rose Ignatius, Environmental Protection Agency - Athens, GA; Deepak Mishra, University of Georgia; Jeffrey Hollister, US EPA

CHAIR(S): Amber Rose Ignatius, Environmental Protection Agency - Athens, GA

- 12:40** Deepak Mishra\*, University of Georgia; Lakshmi Ramaswamy, University of Georgia, *A cyberinfrastructure for combating the proliferation of cyanobacterial harmful algal blooms.*

- 1:00** Jeffrey W Hollister\*, US EPA; Farnaz Nojavan, Oak Ridge Institute for Science and Education (ORISE); Betty J Kreakie, US EPA, *An Open Science Approach to Modeling and Visualizing Cyanobacteria Blooms in Lakes and Ponds.*

- 1:20** Farnaz Nojavan\*, ORISE Environmental Protection Agency; Betty Kreakie, Environmental Protection Agency; Jeff Hollister, Environmental Protection

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Agency, *A Bayesian Multilevel Model for Microcystin Prediction in Lakes of the Continental United States*.

- 1:40** Amber R. Ignatius, Ph.D.\*, U.S. Environmental Protection Agency, ORISE Postdoctoral Fellow; Kurt Wolfe, MA, U.S. Environmental Protection Agency; Mike O. Galvin, MA, U.S. Environmental Protection Agency; Rajbir Parmar, Ph.D., U.S. Environmental Protection Agency; Tom Purucker, Ph.D., U.S. Environmental Protection Agency; John M. Johnston, Ph.D., U.S. Environmental Protection Agency; Anne C. Neale, B.S., U.S. Environmental Protection Agency; Blake A. Schaeffer, Ph.D., U.S. Environmental Protection Agency, *EnviroAtlas Cyanobacteria Assessment Network (CyAN) Dashboard: A Tool for Data Visualization and Exploratory Analysis*.

Discussant(s): Amber Rose Ignatius, Environmental Protection Agency - Athens, GA

## 1465. European Financial Geographies in Flux II

Room: Tremont, Marriott, First Floor (Paper Session)

ORGANIZER(S): David Bassens, Free University of Brussels; Susanne Klara Heeg, Goethe University; Michiel Van Meeteren, Vrije Universiteit Brussel

CHAIR(S): Reijer Hendrikse, Vrije Universiteit Brussels

**12:40** Fenghua Pan\*, Beijing Normal University, *The Geography and networks of Chinese banking activities in Europe*.

**1:00** Martin Sokol\*, Trinity College Dublin, *Financialising Eastern Europe: A Financial Chains Approach*.

**1:20** Gilles Van Hamme\*, Université Libre de Bruxelles; Pablo Medina-Lockhart, Université Libre de Bruxelles; Maëlys Waiengnier, Université Libre de Bruxelles & Vrije Universiteit Brussel, *An assessment of metropolitanization in the post-crisis period in Europe*.

**1:40** Dariusz Wojcik\*, School of Geography and the Environment, Oxford University, *Investment banking centres since Lehman Brothers*.

Discussant(s): Susanne Klara Heeg, Goethe University

## 1466. Remote Sensing on LIDAR

Room: Columbus 1, Marriott, First Floor (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Jeffrey Reed Irwin, U.S. Geological Survey

**12:40** Melanie Laverdiere\*, ORNL; Jessica Moehl, ORNL; Eric Weber, ORNL, *Techniques to Assess Building Region Extractions for High-Resolution Population Mapping*.

**1:00** Siqui Li\*, SUNY ESF; Lindi J Quackenbush, SUNY ESF, *Fusion of airborne lidar and Landsat in quantifying forest biomass*.

**1:20** Benjamin T. Swan\*, Auburn University; Stephanie L. Shepherd, Assistant Professor of Geosciences, Auburn University, *Development and Comparison of Methods for High-Resolution Digital Geomorphological Mapping: A Case Study of the Buffalo River, Arkansas*.

**1:40** Zhen Zhen\*, Northeast Forestry University; Lindi J. Quackenbush, Department of Environmental and Resource Engineering, College of Environmental Science and Forestry, State University of New York, *Agent-based region growing for individual tree crown delineation from airborne laser scanning (ALS) data*.

**2:00** Jeffrey Reed Irwin\*, U.S. Geological Survey Earth Resources Observation and Science Center; Birgit Peterson, ASRC Federal InuTeq, Contractor to U.S. Geological Survey Earth Resources Observation and Science Center; Kurtis Nelson, U.S. Geological Survey Earth Resources Observation and Science Center, *Quantification of Understory Fuels using Lidar Data in Superior National Forest, Northeastern Minnesota, USA*.

## 1467. Critical geographies of lands and waters in the midst of global changes (Sponsored by Rural Geography Specialty Group)

Room: Columbus 2, Marriott, First Floor (Paper Session)

ORGANIZER(S): Julie Trottier, Sara Fernandez, IRSTEA; Olivia Aubriot

CHAIR(S): Julie Trottier

Introducer: Julie Trottier

**12:44** Kramer Gillin\*, University of Wisconsin-Madison, *Semicommons and Legal Pluralism in the Management of Pastoral Resources in Post-Soviet Tajikistan*.

**1:04** Moses Mosonsieyiri Kansanga\*, University of Western Ontario; Peter Andersen, University of Bergen, *'Disappearing Staples and Intra-Family Land Grabbing': Dynamics of Smallholder Agricultural Mechanization in the Northern Savanna of Ghana*.

**1:24** Julie Trottier\*, CNRS, *Exploring the Interconnections between land and water tenure a Palestinian case study*.

**1:44** Marie Louise Ryan\*, Penn State, *Khana kharu bhayo (Have you eaten)? Land tenure, uneven development, and traditional rice varieties in Nepal's Midhills*.

Discussant(s): Olivia Aubriot; Lauriane Gay, ART-Dev, UMR 5281; Nelly Leblond, University of Montpellier 3; Sara Fernandez, IRSTEA

## 1468. Climate Change and Hydrography: Droughts, Floods and Water Management (Sponsored by Climate Specialty Group, Water Resources Specialty Group)

Room: St. Botolph, Marriott, Second Floor (Paper Session)

ORGANIZER(S): RDK Herman, National Museum of the American Indian

CHAIR(S): Kelsey Herndon, University of Alabama in Huntsville

**12:40** Heejun Chang\*, Portland State University, *Climate Change and Urban Flood Vulnerability Assessment*.

**1:00** Fenda A. Akiwumi, PhD\*, University of South Florida, *Water Governance and the Sierra Leone Mining Sector: Climate Change Considerations*.

**1:20** Khalida Mussarat Khan\*, CIMR-Punjab University; Mohammad Yaseen, Centre for Integrated Mountain Research (CIMR), University of the Punjab, Lahore-Pakistan, *Probable Impacts of Climate Change on Stream-flows of the Mangla Watershed Upper Indus River Catchment*.

**1:40** Kelsey E. Herndon\*, University of Alabama in Huntsville; Rebekke Muench, NASA SERVIR; Emil Cherrington, NASA SERVIR; Robert Griffin, University of Alabama in Huntsville, *Water for Agricultural Smallholders in West Africa: The Impact of Climate Change on Water Body Dynamics in the Tahoua Region of Niger*.

## 1469. Contesting Market-Based Logic: Alternative Discourses of Payments for Ecosystem Services III - Alteration through Grounded Practice (Sponsored by Cultural and Political Ecology Specialty Group, Indigenous Peoples Specialty Group, Economic Geography Specialty Group)

Room: Regis, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Elizabeth N. Shapiro-Garza, Duke University; Ruxandra Popovici, Duke University; Christine Folch, Duke University

CHAIR(S): Elizabeth N. Shapiro-Garza, Duke University

**12:40** Audrey Joslin, PhD\*, Kansas State University, *From the City to the Countryside: Translating Water Fund PES in Ecuador's Andes*.

**12:57** Fredy Rafael Grefa\*, University of North Carolina - Chapel Hill, *Mapping different forms and notions of property in the Kichwa of the Ecuadorian Amazon Communities: the case of the Napo Runa people*.

**1:14** Sara H Nelson\*, University of Minnesota; Kelly Meza Prado, Natural Capital Project; Leah Bremer, Stanford, *Towards a Generative Critique of PES: New Political Geographies of Water Governance in Valle del Cauca, Colombia*.

**1:31** Carmen Seco Pérez\*, MSc graduate Stockholm Resilience Centre, *Sumak Kawsay for whom in the Ecuadorian Amazon?: The Socio Bosque program and Indigenous*

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*peoples speaking on behalf of the Living Forest.*

- 1:48** Zhao Ma\*, Purdue University; Claudia Radel, Utah State University; Jonathan Bauchet, Purdue University; Ricardo Godoy, Brandeis University; Diana Steele Jones, Purdue University; Laura Zanotti, Purdue University, *Is conditionality a necessity or impediment for co-production of environmental and social benefits? Preliminary evidence from a Bolivian PES program.*

Discussant(s): Gert Themba Van Hecken, Institute of Development Policy and Management (IOB)

**1470. Hydroclimatic change in mountain environments I: Human Dimensions (Sponsored by Climate Specialty Group, Cryosphere Specialty Group, Mountain Geography Specialty Group)**

*Room:* Northeastern, Marriott, Third Floor (Paper Session)

- ORGANIZER(S): Robert Hellström, Bridgewater State University; Bryan G. Mark, The Ohio State University  
CHAIR(S): Robert Hellström, Bridgewater State University  
**12:40** Patricia Snyder\*, Central Washington University, *Water demands, adaptive capacity, and drought: An Analysis of the Upper Klamath Basin, Oregon and California.*  
**12:57** Christiana Ndidi Egbinola, Dr.\*, University of Ibadan, *Climate Change and Water Resources: Impacts and Responses within River Kaduna Basin.*  
**1:14** Blaise Murphy\*, University of Denver, *Terracing, Land Management and Agricultural Soils in the Andagua Valley of the Southern Peruvian Andes.*  
**1:31** Sarah Lily Feder\*, Amazon Conservation Association, *Buffering Bofedales: Using Biocultural Indicators to Improve Community Management of Highland Wetlands.*  
**1:47** Heike Hartmann\*, Slippery Rock University, *Water Resources Management in the Tarim River Basin: Background, Challenges, Prospects.*

**1471. Mobile dwelling 2: Inhabiting**

*Room:* Brandeis, Marriott, Third Floor (Paper Session)

- ORGANIZER(S): David Bissell, Australian National University; Andrew Gorman-Murray, Western Sydney University  
CHAIR(S): Andrew Gorman-Murray, Western Sydney University  
**12:40** Robin A. Kearns\*, The University of Auckland; Damian C Collins, University of Alberta; Joshua Evans, Athabasca University, *Considering the camp: Ambivalent geographies of mobile dwelling.*  
**1:00** David Bissell\*, Australian National University; Andrew Gorman-Murray, Western Sydney University, *Living and Labouring in a Mobile World.*  
**1:20** Katharina Knaus\*, Center for Metropolitan Studies, Berlin, *The Airbnb Home: Investments, Routines and Reconfigurations.*  
**1:40** Vera Kuklina\*, Institute of Geography SB RAS; Irina Koriukhina, Centre for Independent Social Research and Education, *Movements of Private Boundaries in Mobile Dwelling: Case of Baikalsk.*  
**2:00** Mathilde Dissing Christensen\*, Roskilde University, *Hosting on Airbnb: Navigating and Renegotiating Home, Encounters and Labour in the Collaborative Economies.*

**1472. Legal Geography and Social Justice III (Sponsored by Socialist and Critical Geography Specialty Group, Cultural Geography Specialty Group)**

*Room:* MIT, Marriott, Third Floor (Paper Session)

- ORGANIZER(S): Kafui Atttoh, CUNY Murphy Institute; Joaquin Villanueva, Gustavus Adolphus College  
CHAIR(S): Kafui Atttoh, CUNY Murphy Institute  
**12:40** Laura Pitkanen\*, *Against the State: Case by Case.*  
**12:58** Cynthia Gorman, Ph.D.\*, West Virginia University, *Navigating the Floodgate: Creative Lawyering and Gender-Based Asylum.*  
**1:16** Shaina Potts\*, UC Berkeley Geography, *Rise of the*

*Vultures: Sovereign Debt Litigation and the Struggle for National Territory.*

- 1:34** Robin Wright\*, University of Minnesota - Minneapolis, *Driving while undocumented: policing 'illegal' subjects through the liberal state.*  
**1:52** Louise Sarsfield Collins\*, Maynooth University, *Law, Empire, and LGBT Rights: A historical perspective.*

**1473. Symposium on Human Dynamics in Smart and Connected Communities: Time-geography in the making 1**

*Room:* Boston University, Marriott, Third Floor (Paper Session)

- ORGANIZER(S): Kajsa Ellegård, Linköping University  
CHAIR(S): Åsa Westermark, Jönköping University  
**12:40** Helena Köhler\*, Department of Thematic Studies; Environmental Change, *Failed projects - definition and analytical usefulness. The case of individual metering and debiting of hot water.*  
**1:00** Yusak Susilo\*, KTH Royal Institute of Technology - Stockholm; Chengxi Liu, VTI Swedish Road and Transport Research Institute, *Exploring the potential impacts of altruism on multiday intra-household time use allocation.*  
**1:20** Kristina Trygg\*, Linköping University, *Sustainable development - local approaches with case studies from Sweden.*  
**1:40** Åsa Westermark\*, Jönköping University, *Gender and feminist geography: A time-geographic teaching approach to encourage situated learning in everyday life.*

**1474. Research Frontiers across CyberGIS and Geography (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group, Spatial Analysis and Modeling Specialty Group)**

*Room:* Simmons, Marriott, Third Floor (Paper Session)

- ORGANIZER(S): Eric Shook, University of Minnesota; Shaowen Wang, University of Illinois at Urbana-Champaign  
CHAIR(S): Eric Shook, University of Minnesota  
**12:40** Eric Shook\*, University of Minnesota, *The State of Computing in Geography: A Look Behind and a Look Ahead.*  
**1:00** Wenwu Tang\*, University of North Carolina at Charlotte; Jiyang Shi, University of North Carolina at Charlotte; Minrui Zheng, University of North Carolina at Charlotte; Carl C Trettin, USDA Forest Services, *A Cyberinfrastructure Approach for Big Spatial Data Analytics of Global Mangrove Carbon.*  
**1:20** Alexandre Sorokine\*, Oak Ridge National Laboratory; Anthony King, Oak Ridge National Laboratory; Rajasekar Karthik, Oak Ridge National Laboratory, *Harnessing Big Data and Cloud Technologies for Urban Dynamics Research.*  
**1:40** Fang Qiu\*, University of Texas - Dallas; Feng Ni, Ph.D., Spatial Front, Inc., *GPU-based Parallelization of a Neuro-Fuzzy Hyperspectral Image Classification.*  
Discussant(s): Michael F. Goodchild, University of California

**1475. Agent-based modeling: Challenges and Opportunities (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group, Spatial Analysis and Modeling Specialty Group)**

*Room:* Suffolk, Marriott, Third Floor (Panel Session)

- ORGANIZER(S): Eric Shook, University of Minnesota; Li An, San Diego State University  
CHAIR(S): Li An, San Diego State University  
Panelists: Steven M. Manson, University Of Minnesota; Wenwu Tang, University of North Carolina at Charlotte; Dawn C. Parker, University of Waterloo

**1476. Symposium on Human Dynamics in Smart and Connected Communities: Smart Cities and Urban Computing 2 (Sponsored by Geographic Information Science and Systems**



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- Room:** Wellesley, Marriott, Third Floor (Paper Session)  
 ORGANIZER(S): Xinyue Ye, Kent State University; Shaowen Wang, University of Illinois at Urbana-Champaign  
 CHAIR(S): Ruihong Huang, Northern Arizona University  
**12:40** Ruihong Huang\*, Northern Arizona University, *Simulating Individual Work Trips for Transit Facilitated Accessibility Study*.  
**1:00** Maryam Khabazi\*, Department of Geography and Earth Sciences, University of North Carolina - Charlotte, *Exploring Smart Urban Transformation in 21st Century*.  
**1:20** Parmanand Sinha\*, University of Tennessee, *Incorporating Spatial Dynamics in Metropolitan Land Use Change Models*.  
**1:40** Isil Erol\*, Ozyegin University; Aysegul Ozbakir, Yildiz Technical University, *Spatial and Hedonic Analysis of House Price Dynamics in Istanbul*.  
**2:00** Jie Song\*, University of Florida; Zhong-Ren Peng, University of Florida; Xinyu Fu, University of Florida, *Does planned retreat matter? An investigation of sea level rise impacts on land use change*.

**1477. Extra-regional dynamics of territorial development III: Strategic Couplings**

- Room:** Harvard, Marriott, Third Floor (Paper Session)  
 ORGANIZER(S): Stuart Dawley, CURDS, Newcastle University  
 CHAIR(S): Henry Wai-chung Yeung, National University of Singapore  
**12:40** Godfrey Yeung\*, National University Of Singapore, *Strategic coupling, forms of supplier governance, and the level of regional specialization of suppliers in automotive sector*.  
**1:00** Stuart Dawley, Dr\*, CURDS, Newcastle University; Danny Mackinnon, Prof, CURDS, Newcastle University, *Creating new paths through strategic couplings: Offshore Wind in the UK*.  
**1:20** Chun YANG\*, Hong Kong Baptist University, *Evolution of Personal Computer Production Networks in China: Firm-specific Strategies and Extra-regional Partnerships in the Emergence of Laptop Cluster in Chongqing*.  
**1:40** Samson Afewerki, PhD candidate\*, Norwegian University of Science and Technology; Asbjørn Karlsen, Professor, Norwegian University of science and technology; Danny MacKinnon, Professor, CURDS, University of Newcastle; Markus Steen, Research Scientist, Sintef Technology and Society, *Strategic coupling in two regions: comparing inside-out and outside-in modes of incorporation into GPN*.  
**2:00** Alexander Steven Dodge\*, Norwegian University of Science and Technology, *An Uncooperative Commodity: The Deterritorialization of Natural Gas Commodities through Global Production Networks and Regional Development in Indonesia*.

**1479. Changing Land Use, Changing Livelihoods: Smallholders Today**

- Room:** Arlington, Marriott, Third Floor (Paper Session)  
 ORGANIZER(S): Jacqueline Vadjunec, Oklahoma State University; Claudia A. Radel, Utah State University  
 CHAIR(S): Claudia A. Radel, Utah State University  
 Introducer: Claudia A. Radel  
**12:43** Jacqueline Vadjunec\*, Oklahoma State University; Claudia Radel, PhD, Utah State University; B. L. Turner II, PhD, Arizona State University, *A place for smallholders*.  
**1:00** Karl S. Zimmerer\*, Pennsylvania State University, *Linking Biodiversity In Agri-Food Systems To Major Pathways Of Livelihood Justice And Resource Ecology Transformations Amid Global Change*.

- 1:20** Ritaumaria Pereira, PhD, Center for Sustainability and the Global Environment, University of Wisconsin-Madison, Madison; Cynthia S Simmons, PhD\*, University of Florida, *Smallholders, Agrarian Reform, and Globalization in the Brazilian Amazon: Cattle versus the Environment*.  
**1:40** Claudia A. Radel\*, Utah State University; Birgit Schmook, El Colegio de la Frontera Sur, Mexico; Lindsey Carte, Universidad de la Frontera, Chile; Richard Johnson, University of Arizona, *Smallholder food insecurities at four research sites in Nicaragua and Guatemala*.  
 Discussant(s): B. L. Turner II, Arizona State University

**1480. Interrogating land, property, and land use I: Interrogating land and property (Sponsored by Cultural and Political Ecology Specialty Group, Geographies of Food and Agriculture Specialty Group)**

- Room:** Berkeley, Marriott, Third Floor (Paper Session)  
 ORGANIZER(S): Donald Leffers; Gerda R. Wekerle, York University  
 CHAIR(S): Donald Leffers  
**12:40** Trevor James Wideman\*, Simon Fraser University, *Linking Land Use to Property Ownership: Questioning the Logics of Waste in Planning*.  
**1:00** Levi Van Sant, Dr. \*, Georgia Southern University, *Plantation Geographies: Governing Land and Race in the British (Post)Colonies*.  
**1:20** Debbie Becher, PhD, Sociology, Princeton University\*, Barnard College, Columbia University, *The Peculiarly Long Histories of Privatization and Commodification in the global North: Lessons from Oil Development in the American northern Plains*.

**1481. (Extra)territoriality Part III: Tourism and other industry, zones of encounter, and the role of the state (Sponsored by Political Geography Specialty Group, Cultural Geography Specialty Group)**

- Room:** Clarendon, Marriott, Third Floor (Paper Session)  
 ORGANIZER(S): Sara N. Hughes, University of California - Los Angeles; Josh Watkins  
 CHAIR(S): Sara N. Hughes, University of California - Los Angeles  
**12:40** Ashley Fent\*, UCLA Department of Geography, *Topological Territoriality: Logics of Accessibility, Accompaniment, and Kinship in the Niafarang Mining Negotiations, Senegal*.  
**12:55** Galen Murton, University of Colorado Boulder, *Making Mountain Places into State Spaces: Infrastructure, Consumption, and Territorial Practice in a Himalayan Borderland*.  
**1:10** Sasha Davis\*, Keene State College, *Hegemony's end? Chinese soft-power in the Pacific, American geopolitical panic, and archipelagic assemblages of sovereignty*.  
**1:25** Connie Yang, University of British Columbia, *Shooting Palestine: the Slow Violence of Tourism in the Occupied West Bank*.  
**1:40** J.J. Zhang\*, The University of Hong Kong, *Traversing the frontier: cultural-geopolitics of mainland Chinese day-tripping in a Hong Kong border town*.  
 Discussant(s): Corey Johnson, University of North Carolina - Greensboro

**1482. Anarchist Political Ecology: Theoretical Horizons and Empirical Axes II - More-Than-Human Anarchism (Sponsored by Political Geography Specialty Group, Cultural and Political Ecology Specialty Group)**

- Room:** Dartmouth, Marriott, Third Floor (Paper Session)  
 ORGANIZER(S): Simon Springer, University of Victoria; Martin Locret-Collet  
 CHAIR(S): Martin Locret-Collet  
**12:40** April Marie Stapp\*, Virginia Tech, *Eutopia and*



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*Communitas: The Psycho-spiritual Dimensionalities of Anarchy.*

**1:00** Andre E. Papadimitriou\*, University of Ottawa; Andre E. Papadimitriou, PhD student in Human Geography, University of Ottawa, *Second Nature*.

**1:20** Margarita Smagina\*, Ecole Normale Supérieure de Lyon, *Community in Transnational Ecological Feminisms: Perspectives for Political Ecology and Green Anarchism*.

**1:40** Simon Springer\*, University of Victoria, *Total Liberation Ecology: Integral Anarchism, Anthroparchy, and the Violence of Indifference*.

**1483. 4th Special Session Retail aspects in Urban Geography and Urban Planning (Sponsored by Urban Geography Specialty Group, Economic Geography Specialty Group, Business Geography Specialty Group)**

*Room:* Exeter, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Herman Kok, Multi / ODTU; Barbara Hahn, Wurzburg University

CHAIR(S): Herman Kok, Multi / ODTU

Introducer: Herman Kok

**12:45** Maïke Dziomba\*, redos institutional GmbH, Hamburg / DVAG Deutscher Verband für Angewandte Geographie e.V., *German Retail Investment Markets facing continued Yield Compression: Strategies and Research Approaches for a wider range of Products and Locations*.

**1:05** Marta Alonso\*, Université de Genève, *Market-led urbanity: Retail planning and policies for urban quality. The case of Lausanne*.

**1:25** Mario Paris\*, Politecnico di Milano, DASTU, Urb&Com Lab, *Metropolitan retail systems and clusters of central functions: dynamics and territorial reactions in Lombardy (I)*.

**1:45** Ian Yeboah\*, Miami University, *Accra-Tema City-Region's Shopping Malls: Development or Consumerism under Mature Globalization*.

Discussant(s): Barbara Hahn, Wurzburg University

**1484. Taste, Space, and the Urban Landscape I (Sponsored by Urban Geography Specialty Group, Cultural Geography Specialty Group, Geographies of Food and Agriculture Specialty Group)**

*Room:* Fairfield, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Robert D. Lemon, University of Texas at Austin; Cosima Werner, Heidelberg University

CHAIR(S): Cosima Werner, Heidelberg University

**12:40** Petra Luetke\*, University of Muenster, Germany, *Tasty urban landscapes: mobile food vending and ephemere spaces*.

**1:00** Robert D. Lemon\*, University of Texas at Austin, *The Budding Aromas from Taco Trucks: Taste and Space in Austin, Texas*.

**1:20** Chris Strunk, PhD\*, Augustana College, *Greening the shrinking city?: Immigrant and refugee gardens and struggles over urban space in the Midwest*.

**1:40** Jason Post\*, Texas Tech University; Perry L Carter, PhD, Texas Tech University, *Forbidden Fishing on the Los Angeles River: Querying Spatial and Demographic Patterns of Urban Fishing Behavior Using YouTube Videos*.

Discussant(s): Aida Baghernejad, King's College London

**1485. New Records of Paleoenvironmental Change III (Sponsored by Paleoenvironmental Change Specialty Group)**

*Room:* Salon H, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Anna Agosta G'meiner, McGill University; Julie Commerford, Dartmouth College; Matthew T. Kerr, The University of Tennessee

CHAIR(S): Julie Commerford, Dartmouth College

Introducer: Julie Commerford

**12:40** Matthew Peros\*, Bishop's University; Joao Gabriel Martínez López, Museo Nacional de Historia Natural (Cuba); Miguel Angel Pereira Sosa, Los Corales Diving Center; Kenny Broad, University of Miami; Jill Heinerth, Heinerth Productions, Inc.; Bil Phillips, Speleotech.com; Edey Bermúdez, Los Corales Diving Center; Elián López Cabrera, Los Corales Diving Center; Corey Jaskolski, Hydro Technologies, Inc.; Fabio Esteban Amador, National Geographic Society; Gerry De Iuliis, Royal Ontario Museum; Shawn Collins, Clarion College; Will Pestle, University of Miami, *Extinct Sloths and the Ancient Environment at an Underwater Cave in Western Cuba*.

**1:00** Anna Agosta G'meiner\*, McGill University; Matthew Peros, Bishop's University, *Paleoecological evidence of prehistoric human settlement and impact from Cenote Jennifer, Cayo Coco, Cuba*.

**1:20** Erik N. Johanson, Ph.D.\*, University of Tennessee; Sally P. Horn, Ph.D., University Of Tennessee; Chad S Lane, Ph.D., University of North Carolina, Wilmington, *Pre-Columbian Agriculture, Fire, and Spanish Contact: A 4300-year record from Laguna Los Mangos, Costa Rica*.

**1:40** Marissa Anne Vara, B.S.\*, Louisiana State University; Kristine L DeLong, PhD, Louisiana State University; Achim Herrmann, PhD, Louisiana State University; Gilman Ouellette, M.S., Louisiana State University; Julie N Richey, PhD, United States Geological Survey, *A New Coral Proxy for Temperature in the Southern Gulf of Mexico*.

**2:00** Kristine L. DeLong\*, Louisiana State University, *An Ancient Baldcypress Forest in the Northern Gulf of Mexico*.

**1486. Public Space in the City I: Contestation, Resistance, Politics and Possibilities (Sponsored by Political Geography Specialty Group, Urban Geography Specialty Group)**

*Room:* Salon I, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Piper Gaubatz, University Of Massachusetts

CHAIR(S): Piper Gaubatz, University Of Massachusetts

Introducer: Piper Gaubatz

**12:45** Cortni Kerr\*, Massachusetts Institute of Technology, *Understanding Changing Protest Spaces and Social Control in Boston*.

**1:05** Nikolas Zanette Muricy\*, Universidade Federal Do Rio De Janeiro, *Democracy and public sphere: visibility and citizenship in Copacabana beach*.

**1:25** Juliana Luna Freire\*, Framingham State University, *Urban Protests, Housing Evictions, and Neighborhoods Dismembered: The Affect of a Shared Collective Experience in the 15M*.

Discussant(s): Una McGahern, Newcastle University

**1487. Building blocks and values in infrastructure: understanding agency, normativity, directionality & change II. Analytics and interventions (Sponsored by Energy and Environment Specialty Group)**

*Room:* Salon J, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Ralitsa Hiteva, SPRU, University of Sussex; Katherine Lovell, University of Sussex; Markus M. Bugge, NIFU

CHAIR(S): Mark Usher, University of Manchester

**12:40** Janice Astbury, PhD\*, Durham University; Sam Matthew, BA, Harvard University, *Co-designed and co-produced infrastructure that includes, empowers, flourishes and enchants*.

**1:00** Neil J. Carhart, EngD\*, University of Bristol; Alex D Marsh, University of Bristol; Colin A Taylor, University of Bristol, *The Role of Agency in Infrastructure Resilience*.

**1:20** Katherine Lovell\*, University of Sussex; Ralitsa Hiteva, University of Sussex, *Finding the Locus of Control*.

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*Politics of Scale and Directionality in Infrastructure Development.*

**1:40** Erin Pritchard\*, Liverpool hope university, *Normalcy of disability in relation to public infrastructure.*

Discussant(s): Ralitsa Hiteva, SPRU, University of Sussex

**1488. Environmental Migration in an Era of Global Environmental Change (Sponsored by Human Dimensions of Global Change Specialty Group, Population Specialty Group)**

*Room:* Salon K, Marriott, Fourth Floor (Panel Session)

ORGANIZER(S): Mathew Hauer, University of Georgia; Maia Call

CHAIR(S): Mathew Hauer, University of Georgia

Introducer: Mathew Hauer

Panelists: Lori Hunter, University of Colorado Boulder; Leah VanWey, Brown University; David J. Wrathall, Oregon State University; Brad Jokisch, Ohio University; Alex De Sherbinin, CIESIN, The Earth Institute at Columbia University; Elizabeth Fussell, Brown University

**1489. History of Geography I: People and Institutions (Sponsored by History of Geography Specialty Group)**

*Room:* Vineyard, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Dorothy Sack, Ohio University

CHAIR(S): Dorothy Sack, Ohio University

**12:40** Sandra L. Nichols, Ph.D.\*, Society of Woman Geographers, *Retracing Alexander von Humboldt's 1802 journey in the Peruvian Andes: constraints and opportunities for doing Humboldtian geography in the 21st century..*

**1:00** Michael G. Noll\*, Valdosta State University, *Prince Maximilian of Wied (1782-1867): In the Shadows of Alexander von Humboldt.*

**1:20** Jacqueline Gallagher, Ph.D.\*, University of Mary Washington, *The Tours of James Monroe, 1817-1819.*

**1:40** Jorn Seemann\*, Ball State University, *Lebensraum, Concepts of Nature, and Organic Metaphors: German Naturalists and Geographers in Northeast Brazil and the Amazon from 1914 to 1945.*

**2:00** Peter Ekman\*, University of California, Berkeley, *Forgetting the Future Metropolis: History, Inference, and Disavowal at the Harvard-MIT Joint Center for Urban Studies, 1959?1975.*

**1490. Wine 3: Landscapes of Fermentation: New Perspectives (Sponsored by Wine Specialty Group)**

*Room:* Yarmouth, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Christi Townsend, Texas State University -San Marcos

CHAIR(S): Christi Townsend, Texas State University -San Marcos

**12:40** John W. Nowlin\*, University of North Carolina at Greensboro; Rick L Bunch, PhD, University of North Carolina at Greensboro, *New Pierce's Disease Resistant Grape Varieties: The Implications for the Southeastern U.S. Wine Industry.*

**1:00** Jennifer Brown\*, Texas State University - San Marcos, *Tuscany to Texas: Transcontinental Terroir.*

**1:20** Elizabeth Diane Yarbrough\*, Texas State University, *Kombucha Culture: An Ethnographic Approach to Understanding The Practice of Home-brew Kombucha in San Marcos, Texas.*

**1491. Geographies That Matter: The Middle East Beyond the State (I) (Sponsored by Political Geography Specialty Group, Middle East Specialty Group)**

*Room:* Nantucket, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Ali Hamdan, UCLA; Brittany Cook Barrineau, University of Kentucky

CHAIR(S): Brittany Cook Barrineau, University of Kentucky

**12:40** Brittany Cook Barrineau\*, University of Kentucky, *Socio-natures and Capacity Building in the Olive Oil Sector*

*of Jordan.*

**1:00** Natalia Gutkowski\*, Harvard University, *Species Remaking Borders: Barn Owls as Social Agents Shaping Politics in Jordan-Israel-Palestine.*

**1:20** Natalie R. Koch\*, Syracuse University, *Sporting cities of the Arabian Peninsula: Geopolitical encounters beyond the state.*

**1:40** Ali N Hamdan\*, UCLA, *Transnational Opposition and Syria's Civil War.*

Discussant(s): Lynn Staeheli

**1492. Geospatial Health Research Symposium: Access to Health Care II (Sponsored by Spatial Analysis and Modeling Specialty Group, Health and Medical Geography Specialty Group, Transportation Geography Specialty Group)**

*Room:* Provincetown, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Yanjia Cao, University of Maryland; Zhu Jin, University at Buffalo; Eric M. Delmelle, University of North Carolina at Charlotte

CHAIR(S): Yanjia Cao, University of Maryland

**12:40** Andrew F. Clark, PhD\*, Western University; Jason A Gilliland, PhD, Western University, *A Geospatial Approach to Understanding Inequalities in Accessibility to Primary Care among Vulnerable Populations in Ontario.*

**1:00** Kevin A. Matthews, PhD\*, Centers for Disease Control, *Evaluating Geographic Differences in Utilization of Colonoscopy Among Medicare Beneficiaries in Ohio, 2014.*

**1:20** Sean G Young, M.A.\*, University of Iowa; Thomas S Gruca, Ph.D., University of Iowa; Gregory C. Nelson, M.A., R.N., University of Iowa, *Reevaluating Primary Care Health Professional Shortage Areas in Iowa.*

**1:40** Francis P. Boscoe\*, New York State Department of Health; Kevin A Henry, Department of Geography and Urban Studies, Temple University, *The diffusion of digital mammography in the United States, 2001-2014.*

**2:00** Katia Vasilyeva\*, University of Toronto Department of Geography and Planning; Michael J Widener, PhD, University of Toronto Department of Geography and Planning; Samuel M Galvagno Jr., D.O., Ph.D., M.S., F.C.C.M., University of Maryland School of Medicine, *Modelling the Effects of Space on Emergency Medical Transportation in Maryland, USA.*

**1493. Author Meets Critics: Hydraulic City (Anand) and Endangered City (Zeiderman) (Sponsored by Urban Geography Specialty Group)**

*Room:* Orleans, Marriott, Fourth Floor (Panel Session)

ORGANIZER(S): D. Asher Ghertner, Rutgers University

CHAIR(S): D. Asher Ghertner, Rutgers University

Introducer: D. Asher Ghertner

Panelists: Diane Davis, Harvard University; AbdouMaliq Simone; Malini Ranganathan, American University; Andrew Barry, University College London; Nikhil Anand, University of Pennsylvania; Austin Zeiderman, London School of Economics

**1494. Environmental Justice Dimensions of Urban Greening 1: The inequities and injustices associated with urban greening (Sponsored by Regional Development and Planning Specialty Group, Urban Geography Specialty Group)**

*Room:* Hyannis, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Hamil Pearsall, Temple University; Jonah White, Michigan State University; Troy D. Abel, Western Washington University

CHAIR(S): Hamil Pearsall, Temple University

**12:40** James J.T. Connolly, Ph.D.\*, Universitat Autònoma de Barcelona and Northeastern University, *Whose Green? The opposing forces of environmental injustice in urban greening policy and planning.*

**1:00** Constance Carr, PhD\*, University of Luxembourg,

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*Urban sustainability to prioritize endorse economic development over social and environmental justice: A tale of two urban regions in Europe..*

- 1:20** Ana Mesquita Emlinger\*, Westfield State University - Westfield, MA; Dristi Neog, Westfield State University; Rita Bruno, Catholic University Dom Bosco, Brazil, *'Juntando a Fome com a Vontade de Comer': Acknowledging the suitability of bike infrastructure as a way to promote justice, equity and community engagement in Prado, Brazil.*

- 1:40** Isabelle Anguelovski\*, Universitat Autònoma de Barcelona; Laia Masip, Universitat Autònoma de Barcelona; Hamil Pearsall, Temple University; James Connolly, Universitat Autònoma de Barcelona, *Assessing green gentrification impacts of neighborhood greening in historically disenfranchised neighborhoods: A longitudinal and spatial analysis in Barcelona, Spain.*

**1495. Unraveling Urban Property Norms, Practices, and Imaginaries 1: Neoliberalism, land, and property**

*Room: Falmouth, Marriott, Fourth Floor (Paper Session)*

ORGANIZER(S): Olivia R. Williams, Florida State University Dept of Geography; Kenton Card, University of California - Los Angeles; Joseph Pierce, FSU

CHAIR(S): Joseph Pierce, FSU

- 12:40** Mika Hyotylainen\*, University of Helsinki; Anne Haila, University of Helsinki, *Selling The Welfare City.*

- 1:00** Nicolas Vergara-Arribas\*, Rutgers, the State University of New Jersey, *Fictional absolute property rights and impotency of urban planning.*

- 1:20** Chaitawat Boonjubun\*, University of Helsinki, *Temple land for lease: The case of Bangkok.*

- 1:40** Nancy Worth\*, University of Waterloo, *GenY at Home: Co-residence as uncomfortable privilege in the neoliberal city.*

Discussant(s): Miguel Robles-Duran, New School University

**1496. Publics, Pedagogies, and Praxis: Engaged Research and Scholarship in Critical Geography Session 3 Activism (Sponsored by Cultural and Political Ecology Specialty Group, Ethics, Justice, and Human Rights Specialty Group, Socialist and Critical Geography Specialty Group)**

*Room: Maine, Marriott, Fifth Floor (Paper Session)*

ORGANIZER(S): Joel E. Correia, University of Colorado, Boulder; Tracey Osborne, University of Arizona

CHAIR(S): Joel E. Correia, University of Colorado, Boulder

- 12:40** Raksha Vasudevan\*, University of Texas - Austin; Raksha Vasudevan, University of Texas at Austin, *Participatory Engagement Strategies with Youth in Informal Settlements.*

- 12:55** Ginés A. Sánchez Arias\*, Louisiana State University, *Engaging the Panamanian public about Otherness with Multi-media Political Art.*

- 1:10** Sarah J. Halvorson, PhD\*, Department of Geography, University of Montana; Irena Mrak, PhD, College of Environmental Protection, *Towards a Pedagogy of Unplugged-ness: Rural Publics, National Parks, and Student Participation.*

- 1:25** Suresh Babu\*, Jawaharlal Nehru University, New Delhi, *Praxis of Environmental Movements in India Locating (non) discursive practices in the Valley of Narmada.*

Discussant(s): Elizabeth Oglesby, University of Arizona

**1497. Hazards and GIScience (Sponsored by Geographic Information Science and Systems Specialty Group, Hazards, Risks, and Disasters Specialty Group, Cartography Specialty Group)**

*Room: Massachusetts, Marriott, Fifth Floor (Paper Session)*

ORGANIZER(S): Bandana Kar, University of Southern Mississippi; Tom Cova, University of Utah; Michael E. Hodgson, University of South Carolina

CHAIR(S): Michael E. Hodgson, University of South Carolina

- 12:40** Emily J. Fusco\*, University of Massachusetts - Amherst; John T Abatzoglou, PhD, University of Idaho; Bethany A Bradley, PhD, University of Massachusetts - Amherst; Jennifer K Balch, PhD, University of Colorado - Boulder; John T Finn, PhD, University of Massachusetts - Amherst; Sepideh Khanghah, University of Colorado - Boulder; R Chelsea Nagy, PhD, University of Colorado - Boulder, *Modeling Detection Biases In Remotely Sensed And Agency Reported Fires In The US 2003-2013.*

- 1:00** Andrew S. Foy\*, Radford University, *Uncertainty and Floods: The Cost and Consequence of of the National Flood Insurance Program.*

- 1:20** Anthony Bevacqua\*, Montclair State University; Danlin Yu, Montclair State University, *System Dynamic Model of Coastal Vulnerability.*

- 1:40** Silvia E. Piovan\*, University of Padova; Michael E. Hodgson, University of South Carolina, *Modeling Population Displacement from an Army Engineered Massive Flood.*

- 2:00** Michael E. Hodgson\*, University of South Carolina; Silvia E Piovan, University of Padova; Duane Porter, University of South Carolina; William Poulson, University of South Carolina; Paolo Mozzi, University of Padova, *Modeling Overland Sediment Movement from an Extreme Hazardous Rainfall Event.*

**1498. From sustainable to critical transport studies: a global perspective III**

*Room: New Hampshire, Marriott, Fifth Floor (Paper Session)*

ORGANIZER(S): Wojciech Koblowski, Vrije Universiteit Brussel; Kobe Boussauw, Ghent University - Geography Department

CHAIR(S): Wojciech Koblowski, Vrije Universiteit Brussel

- 12:40** Liam Fassam\*, University of Northampton, *Smart city multi-modal transportation: theoretical procurement framework for delivering societal benefit.*

- 1:00** Angela Curl\*, University of Canterbury, *Critical considerations in measuring accessibility.*

- 1:20** Scott Laurence Copsey, Dr\*, University of Hertfordshire; Liam Fassam, University of Northampton; Richard Leonard Southern, Dr, University of Hertfordshire; Sue Walsh, University of Hertfordshire, *Enhancing Transport Accessibility Using Mobility as a Service Through Partnerships.*

- 1:40** Anson Stewart\*, MIT; P. Christopher Zegras, MIT; Kelly Blynn, MIT; Peter Damrosch, MIT; Xin Zheng, MIT, *Interactive, Collaborative Mapping of Accessibility: Generating New Learning About Public Transportation Benefits.*

**1499. Privatisation, the New Contractualism and the Governance of Contemporary Cities - Part 3**

*Room: Vermont, Marriott, Fifth Floor (Paper Session)*

ORGANIZER(S): Martijn Van Den Hurk, University of Amsterdam; Tuna Tazan-Kok, TUDelft; Mike Raco, University College London

CHAIR(S): Mike Raco, University College London

- 12:40** Champaka Tirumala Rajagopal\*, University of Amsterdam, *Rescaling Bengaluru, India: State-Firm Dialectic, Multi-scalar Planning and Blurring of Spatial Realms and Institutional Roles, Rules and Risks.*

- 1:00** Callum Ward\*, KU Leuven, *Territorial governance through public-private partnership on Merseyside, UK.*

- 1:20** Evan Cleave\*, University of Western Ontario; Merlin Chatwin, University of Western Ontario; Godwin Arku, University of Western Ontario, *Examining the Influence of Consultants on Local Economic Development Policy.*

Discussant(s): Philip Ashton, University of Illinois-Chicago



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## 1501. Dynamics of Coupled Natural and Human Systems Panels: Models, Feedback, Analyses, and Outcomes (IV) (Sponsored by Human Dimensions of Global Change Specialty Group)

Room: Room 101, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Chuan Liao, University of Michigan; Arun Agrawal, University of Michigan

CHAIR(S): Arun Agrawal, University of Michigan

2:40 Benjamin F. Zaitchik\*, Johns Hopkins University; Jeremy Foltz, University of Wisconsin-Madison; Mutlu Ozdogan, University of Wisconsin-Madison; Belay Simane, Addis Ababa University; Sauleh Siddiqui, Johns Hopkins University; Paul Block, University of Wisconsin-Madison, *Multi-scale Food Energy and Water Dynamics in the Blue Nile Highlands*.

3:00 Nina S.N. Lam\*, Louisiana State University; Yi Qiang, University of Colorado; Kenan Li, Louisiana State University; Heng Cai, Louisiana State University; Lei Zou, Louisiana State University; Volodymyr Mihunov, Louisiana State University, *Modeling Coastal Resilience: The Case of the Mississippi River Delta*.

3:20 Heidi Asbjornsen\*, University of New Hampshire; Heidi Asbjornsen, PhD, University of New Hampshire; Kelly Jones, PhD, Colorado State University; Carter Z. Berry, PhD, University of New Hampshire; Russ Congalton, PhD, University of New Hampshire; Sergio Miguel López Ramírez, Michigan Technological University; Robert H. Manson, PhD, Institute of Ecology of Xalapa, Mexico; Lyssette Munoz-Villers, PhD, National Autonomous University of Mexico; Randy Kolka, PhD, US Forest Service; Leonardo Saenz, PhD, Conservation International; Jake Salcone, Colorado State University; Juan José, Von Thaden Ugalde, Institute of Ecology of Xalapa, Mexico; Theresa Selfa, PhD, State University of New York; Alex S Mayer, PhD, Michigan Technological University, *Assessing the interactions between payment for watershed service programs and coupled human-natural systems in Veracruz, Mexico*.

3:40 Katherine Cleary, PhD\*, Clarkson University; Irene Shaver, PhD; Adina Chain-Guardarrama, PhD, Tropical Agricultural Research and Higher Education Center (CATIE); Andre Sanfioenzo, PhD, University of Puerto Rico; Ricardo Santiago-Garcia, PhD, US Forest Service; Bryan Finegan, PhD, Tropical Agricultural Research and Higher Education Center (CATIE); Nicole Sibelet, PhD, Tropical Agricultural Research and Higher Education Center (CATIE); Leontina Hormel, PhD, University of Idaho; Lee A Vierling, PhD, University of Idaho; Nilsa A Bosque-Perez, PhD, University of Idaho; Fabrice DeClerck, PhD, Bioversity International; Matthew E Fagan, PhD, University of Maryland; Lisette P Waits, PhD, University of Idaho, *Coupled social and ecological systems in tropical agricultural regions: describing and quantifying linked outcomes of agricultural intensification*.

4:00 Brenda McCowan\*, School of Veterinary Medicine, University of California, Davis; Brianne Beisner, School of Veterinary Medicine, University of California, Davis; Krishna Balasubramaniam, School of Veterinary Medicine, University of California, Davis; Eliza Bliss-Moreau, Department of Psychology, University of California, Davis; Stefano Kaburu, School of Veterinary Medicine, University of California, Davis; Pascal Marty, School of Veterinary Medicine, University of California, Davis, *Drivers and mechanisms underlying human-macaque coupled systems across a socio-cultural gradient*.

CHAIR(S): Jessica Kelly, Millersville University

2:40 Ahmad Massasati\*, University of Pittsburgh at Johnstown, *Applying Drone Technology to Aerial Mapping at the Undergraduate Level*.

3:00 Katsuhiko "Kirk" Oda\*, University of Southern California, *Differences in Student Perception of Online and Blended Learning*.

3:20 Xi Xiang\*, East China Normal University, *Developing spatial habit of mind for student teachers: A geospatial technology approach*.

3:40 Jessica J Kelly, PhD\*, Millersville University, *Pedagogical Considerations for Technology-Enhanced World Regional Geography*.

4:00 Steven Douglas Moore, Ph.D.\*, Center for Spatial Studies; Gary Scott, Ed.D., University of Redlands, *Spatial Thinking Education in the Elementary Grades: An Educational Justice Perspective*.

## 1503. Co-Located Clusters and Cluster Networks: From Retro to Avant-Garde 1

Room: Room 103, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Harald Bathelt, University of Toronto; Ren Lu, Jiangxi University of Finance and Economics

CHAIR(S): Johannes Glückler, Heidelberg University

2:40 Ekaterina Turkina, HEC Montréal; Ari Van Assche\*, HEC Montreal, *Trans-Local Connectedness and Cluster Performance in Knowledge-Intensive Industries*.

3:00 Anthony Frigon\*, HEC Montreal; Ekaterina Turkina, HEC Montreal, *The Contribution of Foreign Subsidiaries to the Innovative Performance of Clusters: An Empirical Assessment*.

3:20 Christian Sellar\*, University of Mississippi; Tu Lan, PhD, University of New Hampshire; Ulrich Ermann, PhD, University of Graz, *Investment Promotion Communities as translocal linkages: examples from Italy and China*.

3:40 Grigorios Livanis\*, Northeastern University; Anna Lamin, Northeastern University, *Agglomeration and R&D Exit*.

4:00 Yiwen Zhu\*, East China Normal University; Harald Bathelt, University of Toronto, *Innovation Impacts of Embedded Temporary Clusters on Permanent Clusters: Evidence from the Shanghai Equipment Manufacturing Industry*.

## 1504. Geography Education and Citizen Science (Sponsored by Applied Geography Specialty Group, Geography Education Specialty Group)

Room: Room 104, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Stephen G. Tsikalas, Jacksonville State University

CHAIR(S): Stephen G. Tsikalas, Jacksonville State University

2:40 Stephen G. Tsikalas, Ph.D.\*, Jacksonville State University, *The Jacksonville River Monitors: Citizen Science Water Quality Monitoring in Action*.

3:00 Kelly Albus\*, University of North Texas, *Assessing Data Accuracy of a Citizen Scientist Water Quality Monitoring Program*.

3:20 Michael Scholz, Assistant Professor of Geography\*, Winona State University, *School Administrator Insights into Teaching the AP Human Geography Course to 9th Grade Students*.

3:40 Jose Alejandro Cascante Campos\*, Texas State University, *What Kind of Geography Education Research is Being Developed in Latin America? A Review of Open Access Journals from 2005 to 2015..*

## 1505. Global Carceral Geographies III: Confining the Other (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme, Political Geography Specialty Group, Ethics, Justice, and Human Rights Specialty Group, Sexuality and Space Specialty Group)

Room: Room 105, Hynes, Plaza Level (Paper Session)

## 1502. Approaches to Geography Education and Educators

Room: Room 102, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Program Committee

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ORGANIZER(S): Austin Kocher, The Ohio State University, Department of Geography; Dominique Moran, University of Birmingham; Nick Gill, Exeter University

CHAIR(S): Nick Gill, Exeter University

**2:40** Lauren Martin\*, Durham University, *The Carceral Mobilities of Cash: Outsourcing, Digital Surveillance, and Refused Asylum-seeker Assistance in the United Kingdom.*

**3:00** Leigh Barrick\*, University of British Columbia, *Separating families to maintain family unity, and other paradoxes of U.S. deterrence policy.*

**3:20** Austin Kocher\*, The Ohio State University, Department of Geography, *The Legal Construction of Space: On the Juridical Relationship Between Immigrant Detention, Immigration Courts, and Border Enforcement in the United States.*

**3:40** Adam Joseph Barker\*, University of Leicester, *Carcerality and Indigeneity: the roots of 'Indian territory' in Turtle Island (North America).*

Discussant(s): Nick Gill, Exeter University

**1506. Geographies of Beer, Part I: Theory, Method, and Practice in the Geography of Beer (Sponsored by Wine Specialty Group, Cultural Geography Specialty Group, Geographies of Food and Agriculture Specialty Group)**

Room: Room 107, Hynes, Plaza Level (Interactive Short Paper Session)

ORGANIZER(S): Nancy Hoalst-Pullen, Kennesaw State University; Mark W. Patterson, Kennesaw State University

CHAIR(S): Colleen C. Hiner, Texas State University

**2:40** Jonathan Padwe\*, University of Hawaii - Manoa, *Fieldnotes or it didn't happen: Ethnography swig by swig.*

**2:45** Julie Wartell\*, University of California San Diego, *Crime & Craft Breweries: Not All Alcohol Establishments are Created Equally.*

**2:50** Neil Reid\*, University of Toledo, *Embracing the Old: Craft Breweries and Adaptive Reuse.*

**2:55** Shaun A Fontanella, PhD, Center for Urban and Regional Analysis; Jake K. Carr\*, The Ohio State University; Calvin P Tribby, PhD, National Institutes of Health, *The Neighborhood Ingredients of American Beer Geographies.*

**3:00** Margaret M. Gripshover, Western Kentucky University; Thomas L. Bell\*, University of Tennessee, Knoxville, *"Cold Craft Beer Here!": Craft Brewing and Minor League Baseball.*

**3:05** Richard Deal\*, Edinboro University, *The Growth of Craft Breweries in Japan.*

**3:10** Lisa Powell\*, University of British Columbia & University of the Fraser Valley, *Changing Geographies of Beer and Hops in British Columbia's Fraser Valley.*

**3:15** Andy Murray\*, University of California, Santa Cruz, *New Tech, Old Technique: Perfect Day and Fermentative Utopianism.*

**3:20** April Watson, PhD., RPA\*, Florida Atlantic University, *Subversive Defiance in the Craft Brewing Economy.*

**3:25** Colleen C. Hiner\*, Texas State University; Walter William Furness\*, Texas State University; Garrett C Wolf, Manchester; Ashley B Jenkins, Texas State University, *Apples as actors: An actor-network approach to understanding fermented landscapes.*

**3:30** Nancy Hoalst-Pullen\*, Kennesaw State University; Mark W. Patterson\*, Kennesaw State University, *Hidden Geographies of Beer.*

Discussant(s): Thomas C. Shelton, Texas State University

**1507. Perspectives on East Africa (Sponsored by Africa Specialty Group)**

Room: Room 108, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Joseph Terzungwe Zume, Shippensburg University; Amber Murrey, Clark University

CHAIR(S): Susan Kotikot, University of Alabama Huntsville

**2:40** Victoria Alapo\*, Metropolitan Community College, Omaha, *The Power of Women, and the Nature and Influence of Gender Roles in the Pre-Colonial Empires of Ethiopia and Mali.*

**3:00** Tatek Abebe\*, Norwegian University of Science and Technology, *Whose Rights? Politics of Difference and Children's Uncodified Rights in Ethiopia.*

**3:20** Daniel Ehebrecht\*, Geography Department, Humboldt University Berlin, *Governance of Motorcycle-Taxi Services in Dar es Salaam, Tanzania - Negotiation of Organizational Forms, Rules and Spaces.*

**3:40** Joseph Kweku Assan, PhD\*, The Heller School, Brandeis University; Meaza Melkamu, MA, African Conservation Tillage Network, *Building successful resilience to drought and its determinants: a case study of Northern Ethiopia.*

**4:00** Susan Kotikot\*, University of Alabama Huntsville; Africa Flores, Earth System Science Center, University of Alabama in Huntsville; Robert Griffin, Department of Atmospheric Science, University of Alabama in Huntsville, Earth System Science Center; James Nyaga, Regional Center for Mapping of Resources for Development, *Mapping threats to agriculture in East Africa: Performance of MODIS LST for frost identification in Kenya's tea plantations.*

**1508. Agriculture, Climate, and the Environment (Sponsored by Rural Geography Specialty Group)**

Room: Room 109, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Christopher R. Laingen, Eastern Illinois University

CHAIR(S): Kathy Sulianling Mulcahy, Kansas State University

**2:40** Paul R. Sando, Ph.D.\*, MN State University at Moorhead, *Drain Tiling, hydrology, and Environmental Health of one Minnesota County.*

**3:00** Steven R Schultze\*, University of South Alabama, *Precision Agriculture and the Effect of Microclimates on Growth Across Individual Crops.*

**3:20** Henry Quinn Whitehead\*, Macalester College, *The Carbon Continuum: Assessing production agriculture in Minnesota's potential to fight climate change.*

**3:40** Md Saifuzzaman, PhD Student\*, McGill University; Viacheslav Adamchuk, Associate Professor, McGill University, *Proximal soil sensing and remote sensing data processing for precision agriculture in Ontario, Canada.*

**4:00** Kathy Sulianling Mulcahy\*, Kansas State University; Shawn Hutchinson, Kansas State University; Nicholas Bloedow, Kansas State University, *Improving Climate Visualizations to Motivate Consideration of Climate Change Adaptation Strategies by Kansas Agricultural Producers.*

**1509. Dendrochronology II: Dendrochronological Applications**

Room: Room 110, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Lauren Stachowiak, University of Tennessee; Christopher M. Gentry, Austin Peay State University

CHAIR(S): Lauren Stachowiak, University of Tennessee

**2:40** Thomas Wilding\*, University of Wisconsin - Platteville; Evan Larson, University of Wisconsin - Platteville; Kalina Hildebrandt, University of Wisconsin - Platteville; Lane Johnson; Kurt Kipfmüller,

University of Minnesota, *A new network of crossdated culturally-modified trees in the Border Lakes Region of Minnesota.*

**3:00** Daniel Druckenbrod\*, Rider University, *Rediscovering Aldo Leopold's "Big Woods" in Lawrenceville, New Jersey.*

**3:20** Henri D. Grissino-Mayer\*, University of Tennessee, Knoxville, *The Time is Right: Redefining the Principles in Dendrochronology.*

**3:40** Lauren A. Stachowiak\*, Eastern Washington University;

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Henri D. Grissino-Mayer, The University of Tennessee;  
Nicholas N. Nagle, The University of Tennessee,  
*Spatial Association in Fire Activity on Big Pine Key,  
Florida, USA.*

Discussant(s): James H. Speer, Indiana State University

**1510. Historical Ecology 2 (Sponsored by Biogeography Specialty Group)**

Room: Room 111, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Chris Larsen, University At Buffalo; Yi-Chen Wang, National University of Singapore; Travis Longcore, University of Southern California

CHAIR(S): Chris Larsen, University At Buffalo

**2:40** Jolene Keen, MS\*, American Association of Geographers, *A Comparison of Two Geospatial Methods of Analysing Historic Records for the Identification of Archaeological Sites.*

**3:00** Peter M. Butler\*, West Virginia University; Charlie Yuill, Associate Professor, West Virginia University, *Revealing Integrated Industrial Narratives through Digital Visualization of a Historic Cultural Landscape in Appalachia.*

**3:20** Ryan Robert Reker\*, ASRC Federal InuTeq; Steven W Hostetler, US Geological Survey; Jay R Alder, US Geological Survey; Christopher E Bernhardt, US Geological Survey; Thomas R Loveland, US Geological Survey; Eric T Sundquist, US Geological Survey; Robert S Thompson, US Geological Survey; Debra A Willard, US Geological Survey, *Characterizing 17th-20th century land cover changes and modeling regional climate responses over the Eastern United States.*

**3:40** Erik Steven Breidinger\*, Saginaw Valley State University; Rhett Mohler, Ph.D, Saginaw Valley State University, *Mapping land cover changes along the Kawkawlin river using object-based classification of 1938 and 2014 aerial photography.*

**1511. Critical Geographies of Migration II**

Room: Room 200, Hynes, Second Level (Panel Session)

ORGANIZER(S): Katharyne Mitchell, University of Washington; Jennifer Fluri, University of Colorado, Boulder

CHAIR(S): Reece Jones, University of Hawaii at Manoa

Panelists: Thom Davies, University of Warwick; Elaine Lynn-Ee Ho, National University of Singapore; Rachel Silvey, U. of Toronto; Patricia Ehrkamp, University of Kentucky

**1512. Geographies of Education: Critical Lenses on Pedagogy and Praxis in Geography (Sponsored by Geography Education Specialty Group)**

Room: Room 201, Hynes, Second Level (Paper Session)

ORGANIZER(S): Joseph Palis, University of the Philippines-Diliman; Hélène DUCROS; Sarah Goggin

CHAIR(S): Hélène DUCROS

**2:40** Carl M. Sack, M.S.\*, University of Wisconsin - Madison, *The Brave New World of Teaching Web Mapping.*

**3:00** Ziying Jiang\*, Miami University, *Using scaffolded writing assignments to enhance student learning in an introductory physical geography course.*

**3:20** Robert V. Rohli\*, Louisiana State University, *Visual Communication Pedagogy in Climatology.*

**3:40** Jeff Boggs\*, Brock University, *Fact-or-fiction scenarios as tool for project-based learning in upper-year undergraduate economic geography courses..*

**4:00** Shaunna Barnhart, PhD\*, Bucknell University; Carl Milofsky, Bucknell University; Ben Marsh, Bucknell University; Martin Moran, Divine Redeemer Church; Jake Betz, Mother Maria Kaupas Center, *University-Community Partnership for Place-based Pedagogy and Community Revitalization in Pennsylvania's Anthracite Coal Region.*

**1513. Countertopographies of Undergraduate Research**

Room: Room 202, Hynes, Second Level (Paper Session)

ORGANIZER(S): Emma Gaalaas Mullaney, Bucknell University; Vanessa Anne Massaro, Bucknell University

CHAIR(S): Emma Gaalaas Mullaney, Bucknell University

**2:40** Maddie Galvez\*, Bucknell University, *Women's Perspectives on Police Brutality and Mass Incarceration in Philadelphia.*

**3:00** Julia Lasko\*, Bucknell University; Katie Sidlowski, Bucknell University, *Domestic Space and Academic Space.*

**3:20** Patricia Williams\*, Bucknell University, *Misdemeanor Crimes and Over-policing in Philadelphia.*

**3:40** Anna Millar\*, Bucknell University; Maggie Carlson, Bucknell University; Mikaela Schaller, Bucknell University, *Public Space, Sexual Space, Queer Space.*

Discussant(s): Lorraine Dowler, Penn State University

**1514. Embracing Diversity: An Open Discussion with the AAG's Diversity Ambassadors (Sponsored by AAG Careers and Professional Development Theme)**

Room: Room 203, Hynes, Second Level (Panel Session)

ORGANIZER(S): Darryl T. Cohen, U.S. Census Bureau; Mark Revell, American Association of Geographers

CHAIR(S): Darryl T. Cohen, U.S. Census Bureau

Discussant(s): Darryl T. Cohen, U.S. Census Bureau

Panelists: Arthur N. Samel, Bowling Green State University; Astrid Nicole Ng, Esri; Debanuj DasGupta, University of Connecticut; Arvind Aniel Rombawa Bhuta, USDA - US Forest Service - Southern Region

**1515. Stand Out from the Rest: Nailing Your Career Fair Interaction (Sponsored by AAG Careers and Professional Development Theme)**

Room: Room 204, Hynes, Second Level (Panel Session)

ORGANIZER(S): Nick Kelch, Esri

CHAIR(S): Nick Kelch, Esri

Discussant(s): Nick Kelch, Esri; Bill Hodge, GISCI

**1516. Geography, War, and the Human Sciences 1 (Sponsored by Political Geography Specialty Group, History of Geography Specialty Group, Historical Geography Specialty Group)**

Room: Room 205, Hynes, Second Level (Paper Session)

ORGANIZER(S): Matthew Farish, University of Toronto; Elliott Callan Child, University of British Columbia; Trevor J. Barnes, University Of British Columbia

CHAIR(S): Scott Kirsch, UNC-Chapel Hill

**2:40** Elliott Callan Child\*, University of British Columbia, *Targeting memories: Project Wringer, mass interrogation, and geographical intelligence in the cold war.*

**3:00** Richard Nisa\*, Fairleigh Dickinson University, *Laboratories of Enemy Behavior: Cold War Social Science and the Korean War Prison.*

**3:20** Rebecca Lemov\*, Harvard Univ., *Brainwashing, Inoculation, and Experimentation in Early SERE Training.*

**3:40** Matthew Farish\*, University of Toronto, *'All conceivable climatic conditions': The Military Invention of Survival Geography.*

Discussant(s): Matthew W. Wilson, University of Kentucky

**1517. 50 Years of Clark Radical Geography I (Sponsored by Socialist and Critical Geography Specialty Group, Development Geographies Specialty Group)**

Room: Room 206, Hynes, Second Level (Panel Session)

ORGANIZER(S): Waquar Ahmed, University of North Texas

CHAIR(S): Waquar Ahmed, University of North Texas

Discussant(s): Richard Peet, Clark University

Panelists: Elaine Hartwick, Framingham State University; Jayson Funke, Framingham State University; Cindi Katz, CUNY Graduate Center; Thomas Ponniah;



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Eliot Tretter, University of Calgary; Kevin Surprise, Framingham State University; Daniel Weiner, University of Connecticut; Michal Kohout, California State University, San Bernardino

**1519. Doing Critical Geography I: Processes and Practices**

Room: Room 210, Hynes, Second Level (Paper Session)

ORGANIZER(S): Sarah E.L. Wakefield, University Of Toronto; Samuel Walker, University of Toronto; Lauren Kepkiewicz, University of Toronto

CHAIR(S): Sarah E.L. Wakefield, University Of Toronto  
 2:40 Jillian Linton\*, University of Toronto, *Whose story is it? Representing the multiple truths of immigrant counternarratives.*

3:00 Lorena Munoz, PhD\*, University of Minnesota, *Bar Tasco: Latina Immigrant Vendor's Mestiza Consciousness.*

3:20 Samuel Walker\*, University of Toronto, *"Program Speak": On Some Methodological Challenges of Causality and Language in Studying Urban Governance.*

3:40 Paul-Antoine Cardin\*, Université Laval; Caroline Desbiens, Université Laval, *Engaged research travels: when indigenous experts transfer knowledge to university researchers.*

4:00 Désirée Rochat, PhD Candidate\*, McGill University; Leslie Touré Kapo, PhD Candidate\*, Institut National de la Recherche Scientifique - UCS, *"Started from the bottom, now we here!" Research and Popular Education in the Global City.*

**1521. Risk, security, and access to food (Sponsored by Geographies of Bread and Water in the 21st Century Featured Theme)**

Room: Room 301, Hynes, Third Level (Paper Session)

ORGANIZER(S): Bread and Water

CHAIR(S): Hannah Stokes, University At Buffalo

2:40 Nairne Cameron\*, Algoma University; Carter Vance, Carleton University; Jordan Wettlaufer, Algoma University, *'Kneading' Your Own Bread: Exploring Future Directions in Local Food Access.*

3:00 Margaret Carrel\*, University of Iowa; Chang Zhao, University of Iowa; Dipendra Thapaliya, Kent State University; Patrick Bitterman, University of Iowa; Tara C Smith, Kent State University, *Assessing the potential for raw meat to influence human colonization with Staphylococcus aureus.*

3:20 Anastasia Hervas, Ph.D. Candidate\*, University of Toronto, *Effects of Oil Palm Expansion on Household Food Security: A case-study from the Lachuá Ecoregion, Guatemala.*

3:40 PGM Hebinck\*, Wageningen University; Henk Oostindie, Wageningen University, *Practice-led (re-) design of Food and Nutritional Security in Europe; empirical evidence from Europe.*

4:00 Hannah Stokes\*, University At Buffalo, *"Empty Fridges and Trunks Full of Beans": Conceptualizing Food Insecurity and Its Measurement Among Refugees Resettled in Vermont.*

**1522. Annual CAPE "James M. Blaut" Plenary Lecture, by Jessica Barnes (Sponsored by Cultural and Political Ecology Specialty Group, Geographies of Bread and Water in the 21st Century Featured Theme)**

Room: Room 302, Hynes, Third Level (Paper Session)

ORGANIZER(S): Jennifer L. Rice, University of Georgia

CHAIR(S): Jennifer L. Rice, University of Georgia

2:40 Jessica Barnes\*, University of South Carolina, *Bread Encounters: Social Geographies of a Staple Food in Egypt.*

**1523. The Where of Rights and the Right to the City II: The Where of Struggles (Sponsored by Political Geography Specialty Group, Urban Geography Specialty Group, Socialist and Critical Geography Specialty Group)**

Room: Room 303, Hynes, Third Level (Paper Session)

ORGANIZER(S): Joaquin Villanueva, Gustavus Adolphus College; Don Mitchell, Syracuse University

CHAIR(S): Joaquin Villanueva, Gustavus Adolphus College

2:40 Peter Hossler\*, Rhodes College, *Scaffolding Lefebvre's "Cry" and "Demand": Educational Spaces, Praxis, and The Right to the City.*

3:00 Madeleine Hamlin\*, Syracuse University, *Second Chances in the Second City: Mapping Chicago's Carceral Continuum.*

3:20 Don Mitchell, Uppsala University, *The Last (Homeless) Man Standing: On the Necessity and Limits of Legal Challenges to Statutory Public Space Regulation.*

3:40 Kathleen Morris, Associate Professor of Law\*, Golden Gate University School of Law, *Uncooperative Localism.*  
 Discussant(s): Joaquin Villanueva, Gustavus Adolphus College

**1524. Vital Geographies 2**

Room: Room 304, Hynes, Third Level (Paper Session)

ORGANIZER(S): Gerry Kearns, Maynooth University; Simon M. Reid-Henry, Queen Mary, University of London

CHAIR(S): Simon M. Reid-Henry, Queen Mary, University of London

2:40 Michael Brown\*, University of Washington; Lawrence Knopp\*, University of Washington Tacoma, *Vital Geographies in Urban Biopolitics: Seeing Like a City and the Noir of Disease Investigation in Mid 20th Century Gay Seattle.*

3:00 Tim Brown\*, Queen Mary University of London, *Revitalising the city: locating ecological thought in the making of healthy cities.*

3:20 Susan Craddock, Professor\*, University of Minnesota, *Contradictions of Neglect: Addressing tuberculosis in the era of global health.*

3:40 Gisele Eugenia O'Connell, BA\*, Maynooth University, *Performances of Precarity in Irish AIDS Quilts.*

4:00 Gerry Kearns\*, Maynooth University, *Defending Life by Queering Spatial Metaphors.*

**1525. (Un)settled Sojourners in the City: The Permanence of Temporary Migrants, 2 (Sponsored by Population Specialty Group, Urban Geography Specialty Group, Ethnic Geography Specialty Group)**

Room: Room 305, Hynes, Third Level (Paper Session)

ORGANIZER(S): Marie D. Price, George Washington University; Elizabeth Chacko, The George Washington University

CHAIR(S): Elizabeth Chacko, The George Washington University

2:40 Asli Ceylan Oner\*, Izmir University of Economics; Bahar Durmaz Drinkwater, Assistant Professor, Izmir University of Economics; Richard J. Grant, Professor, University of Miami, *A City caught in the Global Refugee Crisis: Moral Geography of Izmir, Turkey.*

3:00 Frank Eckardt\*, *Welcomed Refugees, Unloved Neighbors? Local anti-asylum protest and the concept of neighborhood in East-Germany.*

3:20 Yining Tan\*, Arizona State University, *How Temporary Migrant Workers Collectively Shape the Destination Society Through Using Community Parks After Work? A Case Study of Dongguan, China.*

3:40 Sarah A. Blue\*, Texas State University; Alisa Hartsell, Texas State University; Rebecca Torres, University of Texas - Austin; Paul Flynn, University of Texas - Austin, *The Uneven Geography of Asylum or other Migration Relief for Central American Migrant Youth in the United States.*

4:00 Marie D. Price\*, George Washington University; Giancarla Rojas, FWD.US, *The Daily Lives and Limits of the DACamented: Undocumented Youth in Metropolitan Washington.*

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## 1526. IPSG Plenary: Mainstreaming Indigenous Rights with Pua Case and Hawane Rios (Sponsored by Indigenous Peoples Specialty Group)

Room: Room 306, Hynes, Third Level (Panel Session)

ORGANIZER(S): Renee Pualani Louis, Institute of Policy and Social Research; Chantelle Richmond, The University of Western Ontario

CHAIR(S): Chantelle Richmond, The University of Western Ontario

Discussant(s): Renee Pualani Louis, Institute of Policy and Social Research; Chantelle Richmond, The University of Western Ontario

## 1528. New Natures and Novel Landscapes II: Critical Geographies of Conservation and Wildlife Management in the Anthropocene (Sponsored by Animal Geography Specialty Group)

Room: Room 308, Hynes, Third Level (Paper Session)

ORGANIZER(S): John Patrick Connors, Boston University; Anne Short Gianotti, Boston University

CHAIR(S): John Patrick Connors, Boston University

2:40 Pamela D. McElwee\*, Rutgers, *Crossing the Maginot Line: Novel Landscapes and Conservation Challenges in the Global South.*

3:00 Eric Compas\*, University of Wisconsin-Whitewater, *"Natural Regulation" and Climate Change in Yellowstone: Novel Landscapes and the Evolution of Wildness.*

3:20 Chris Sneddon\*, Dartmouth College; Francis Magilligan, Professor, Dartmouth College; Coleen Fox, Research Professor, Dartmouth College, *Damming the Swift: Riverine Landscapes and Anthropocene Politics in New England, United States.*

3:40 Eleanor Andrews\*, Cornell Development Sociology, *Industrial Livestock or Endangered Species: Which Bees Need Saving?*

4:00 John Patrick Connors, PhD\*, Boston University; Anne Short Gianotti, Boston University, *Your Park is an Ecological Slum': Deer hunting and the construction of nature in the suburbs.*

## 1529. River Observations, Monitoring, and Management (Sponsored by Geomorphology Specialty Group, Water Resources Specialty Group)

Room: Room 309, Hynes, Third Level (Illustrated Paper Session)

ORGANIZER(S): Adriana E. Martinez, Southern Illinois University Edwardsville; James T. Dietrich, Dartmouth College

CHAIR(S): Suzanne Walther, University of San Diego

2:40 Douglas M. Thompson\*, Connecticut College; Samuel A Fixler, Connecticut College; Kali E. Roberts, Connecticut College and TRC Companies; Steven Koenig, Project SHARE, *Monitoring changes in bed elevation and sediment mobility resulting from large wood additions and fish spawning activities..*

2:45 William J. Gribb\*, University Of Wyoming, *An Analysis of River Reaches: The Connection Between Fluvial Processes and Beaver Habitat.*

2:50 Neil Shea\*, Tulalip Tribes; Brett Shattuck, Tulalip Tribes; Derek Marks, Tulalip Tribes, *Utilizing UAV Derived Data to Monitor Large Wood Loads and Detect Planform Changes in a Remote Mountain Stream Reach.*

2:55 Jeanne E. Godaire\*, US Bureau of Reclamation; Sean Kimbrel, US Bureau of Reclamation, *Fluvial geomorphology of the Finley Creek alluvial fan and alternatives for river restoration.*

3:00 Kim Mobley, Graduate student\*, University of Michigan, Dearborn; Jacob Napieralski, Associate Professor of Geology, University of Michigan, Dearborn, *Rapid Assessment of Streambank Stability via Application of the Factor of Safety.*

3:05 Lan Li, 90091070\*, AAG Geomorphology Specialty Group; lan li, Department of Archaeology, Sichuan University, Chengdu, China; Anthropology department, Washington University in St. Louis, Mo, 63130, *Archaeological evidence for the Sea-Level changes and human coastal adoptions in lower reaches of Yangtze River, China.*

3:10 Britta Anderson\*, University of Rhode Island, *Simulating Climate Change Induced Thermal Stress in RI Watersheds Using SWAT.*

3:15 Joshua Lieberman\*, Harvard Center for Geographic Analysis, *Applications for a Surface Hydro Ontology and Linked Data Model.*

3:20 Rachel Walther\*, Southern Illinois University Edwardsville; Adriana E Martinez, Southern Illinois University-Edwardsville, *Approaches to Stream Restoration: Practices in Missouri and Illinois.*

3:25 Adriana E. Martinez\*, Southern Illinois University Edwardsville; Suzanne Walther, University of San Diego; Ayomipo E Adeyemo, Southern Illinois University Edwardsville, *Riparian Vegetation and Channel Variable Changes after Stream Impoundment: The Provo River and Jordanelle Reservoir.*

## 1530. Going Round in (Perfect) Circles? Exploring the Circular Economy.

Room: Room 310, Hynes, Third Level (Paper Session)

ORGANIZER(S): Helen Abigail Baxter, University of Hull; David C. Gibbs, University of Hull

CHAIR(S): David C. Gibbs, University of Hull

2:40 Richard Ek\*, Lund University, *The Spatial Imagination of the Circular Economy - A Root Metaphor Analysis.*

3:00 Helen Abigail Baxter\*, University of Hull; David Gibbs, University of Hull; Pauline Deutz, University of Hull, *The Circular Economy and Legacy Waste Recovery: The Case of Vanadium.*

3:20 Spyridon Stavropoulos, Dr\*, Erasmus University Rotterdam; Martijn Burger, Dr, Erasmus University Rotterdam; Frank Van Oort, Dr, Erasmus University Rotterdam, *Employment in the circular economy..*

3:40 Nicholas Lynch\*, Memorial University Of Newfoundland, *Smart, Adaptive, and Liveable? Exploring the City in the Circular Economy.*

## 1531. Urban Change in Detroit and Los Angeles

Room: Room 311, Hynes, Third Level (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Ken Fichtelman, California State University

2:40 Youngjun Kim\*, University of Illinois - Chicago - Chicago, IL, *New form of neighborhood change under globalization: Case of Koreatown, Los Angeles.*

2:56 Corinne Lunden\*, Earlham College, *Hegemonic Urban Planning: Contested Space and Interests in Mid-Century East L.A..*

3:12 Ken Fichtelman\*, California State University, *The Revitalization of the Southern Industrial District, Los Angeles.*

## 1532. Social Movements and Scalar Struggles Part 2

Room: Room 312, Hynes, Third Level (Paper Session)

ORGANIZER(S): Paul Bocking, York University; Pelin Asci, York University

CHAIR(S): Pelin Asci, York University

2:40 Rupi Minhas\*, York University, *Scale and the study of contentious politics: The case of communist parties in India.*

3:00 Sang-hyoun Pakk\*, University of Hawaii, *There's no such thing as local food.*

3:20 Catherine Tsukasa Bender\*, UCLA, *No Limit: Alternative Asia's Translocal Connections.*

3:40 Miguel Contreras\*, Syracuse University, Universidad de Chile, *Territory, Social Movements, and Barricades:*

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Discussant(s): Sara Koopman, University of Tampere

**1533. The Resilience Machine***Room:* Room 313, Hynes, Third Level (Panel Session)

ORGANIZER(S): Jennifer Lawrence, Virginia Tech; Simin Davoudi, University of Newcastle

CHAIR(S): Jennifer Lawrence, Virginia Tech

Panelists: Kevin Grove, Florida International University; Simin Davoudi, University of Newcastle; Timothy Luke, Virginia Tech; Lauren Amy Rickards, RMIT University; Jennifer Lawrence, Virginia Tech; Jonathan Pugh, Newcastle University, UK

**1534. New moral natures in tourism 1 (Sponsored by Recreation, Tourism, and Sport Specialty Group)***Room:* Suite 300, Hynes, Third Level (Paper Session)

ORGANIZER(S): Bryan SR Grimwood, University of Waterloo; Lisa Cooke, Thompson Rivers University; Kellee Caton, Thompson Rivers University

CHAIR(S): Kellee Caton, Thompson Rivers University  
Introducer: Bryan SR Grimwood**3:00** Katie Dudley, PhD Student, Clemson University, *Media messaging and the National Park Service: A critical analysis.***3:20** Jillian Rickly\*, The University of Nottingham, *Contesting ethical authority and authentic practice in adventure tourism.***3:40** Lisa Cooke\*, Thompson Rivers University, *The Moral Natures of 'Contestation, Oppression, and Hope' at a Settler Colonial British Colombia Ski Resort.***4:00** Elizabeth S Vidon, PhD, SUNY-ESF, *The Ethics of Wilderness: Community and Conflict in the Adirondack Park.***1538. Migration, Circularity, and Return Migration in China (Sponsored by China Specialty Group, Asian Geography Specialty Group, Population Specialty Group)***Room:* Independence East, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Cindy Fan, UCLA; Wenfei Winnie Wang, University of Bristol

CHAIR(S): Xiaobo Su, University of Oregon

**2:40** Xingna Nina Zhang, PhD candidate, School of geographical Sciences, University of Bristol, *Multilevel Gravity Model of Migration: the Role of Regional Income Divides-a Case Study of China's Interprovincial Migration in 2010.***3:00** Chen Chen\*, Asian Demographic Research Institute, Shanghai University; Cindy C Fan, Geography, UCLA, *Rural-Urban Migration and Circularity in China: Analysis of Longitudinal Surveys in Anhui, 1980-2009.***3:20** Cindy Fan\*, UCLA; Tianjiao Li, Peking University, *Familization of China's Floating Population.***3:40** XIAOMAN LIU, Department of Geography and Resource Management, The Chinese University of Hong Kong; Jianfa Shen, Department of Geography and Resource Management, The Chinese University of Hong Kong, *Non-local working experiences of China's rural return migration.***4:00** Wenfei Winnie Wang\*, University of Bristol, *Social impact of return migration on women return migrants.***1539. Making Geographic Scholarship Count: Strategies and alternative measures for engaged scholarship, practice, and activism in geography (Sponsored by AAG Careers and Professional Development Theme)***Room:* Independence West, Sheraton, Second Floor (Panel Session)

ORGANIZER(S): Alex Andre Moulton, Clark University; Teresa Bornschlegel, Clark University; Janae Davis, Clark University

CHAIR(S): Janae Davis, Clark University

Introducer: Alex Andre Moulton

Discussant(s): Aaron Bobrow-Strain, Whitman College; Edward R. Carr, Clark University

Panelists: Elizabeth Oglesby, University of Arizona; Amber Murrey, Clark University; Amy Ross, University Of Georgia, Athens; Megan Brown, University of Washington

**1540. Critical Geographies of Agri-food Policy: Igniting Political Potential II (Sponsored by Cultural and Political Ecology Specialty Group, Indigenous Peoples Specialty Group, Geographies of Food and Agriculture Specialty Group)***Room:* Liberty B, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Alastair Iles, UC Berkeley; Garrett Graddy-Lovelace, American University School of International Service; Michael Jahi Chappell, Coventry University

CHAIR(S): Maywa Montenegro, ESPM, UC Berkeley  
**2:40** William G. Moseley\*, Macalester College, *The New Green Revolution's Value Chain Approach in West Africa: A Feminist Political Agronomy Perspective.***3:00** Michael Jahi Chappell, PhD\*, Coventry University, *Beginning to End Hunger: Lessons on Food and the Environment from Belo Horizonte, Brazil.***3:20** Maywa Montenegro, University of California, Berkeley, *Open source seed: commons as a route to sovereignty.***3:40** Garrett Graddy-Lovelace\*, American University School of International Service, *Ex situ-centric: the International Treaty for Plant Genetic Resources for Food & Agriculture and the problem of global conservation governance.***4:00** Timothy A. Wise\*, Small Planet Institute, *Delusions of Grandeur: Land grabs, land giveaways, and resistance in Africa.***1541. Migration and Internationalization 4: International Competition, Transnational Connections and Local Incorporation (Sponsored by Population Specialty Group, Ethnic Geography Specialty Group)***Room:* Liberty C, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Micheline Van Riemsdijk, University of Tennessee; Heike Alberts, University of Wisconsin-Oshkosh; Yvonne Riano, Institute of Geography, University of Neuchâtel, Switzerland

CHAIR(S): Micheline Van Riemsdijk, University of Tennessee

**2:40** Elaine Moriarty, Dr\*, Trinity College Dublin, *Young Irish Graduates navigating a global workspace after the recession.***3:00** Karine Duplan\*, University of Geneva, Switzerland, *A well-kept secret? Insights on international mobility motives and representations of expatriate women in Luxembourg.***3:20** Tricia Cleland Silva, PhD, M.sc.\*, Hanken School of Economics, *Producing nurses: transnationalization of nurse labour and producer-based care networks in Finland.***1542. Economic Geography IV - Investment, Firms, Skills, and Regional Resilience (Sponsored by Economic Geography Specialty Group)***Room:* Back Bay Ballroom A, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Dieter Franz Kogler, University College Dublin; Thomas Kemeny, University of Southampton; Pierre-Alexandre Balland, Utrecht University

CHAIR(S): Dieter Franz Kogler, University College Dublin

**2:40** Nicola Cortinovis, Erasmus University Rotterdam; Riccardo Crescenzi, London School of Economics; Frank Van Oort\*, Utrecht University, *Multinational enterprises, cognitive relatedness and industrial performance in European regions.***3:00** Riccardo Crescenzi\*, London School of Economics; Arnaud Dyeve, London School of Economics; Frank Neffke, Harvard University, *Foreign Direct Investment and City-level Innovation.*



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- 3:20** Ricardo Hausmann, Harvard University; Frank Neffke\*, Harvard University, *The workforce of pioneer plants.*
- 3:40** Martin Henning\*, University of Gothenburg; Lisa Östbring, Umeå University, Sweden, *Changes in skill composition in Swedish non-core manufacturing since 1993.*
- 4:00** Lars-Fredrik Andersson, Umeå University; Therese Danley, Umeå University; Rikard Eriksson\*, Umea University; Martin Henning, Gothenburg University, *Creative destruction in regional economies. The role of regional workforce reallocation following plant exit..*

## 1544. Protest Camps: Politics of Care and Social Reproduction

- Room:** Constitution A, Sheraton, Second Floor (Paper Session)
- ORGANIZER(S): Fabian Frenzel, University of Leicester; Anna Feigenbaum, Bournemouth University; Gavin Brown, University of Leicester
- CHAIR(S): Anna Feigenbaum, Bournemouth University
- 2:40** Anders Rubing\*, Bergen School of Architecture, *Vulnerability as strategy, the strategic use of textile in protest camps..*
- 3:00** Jie Ying, Klavier Wang\*, The Education University of Hong Kong, *Multi-temporalities of Protest Songs in Hong Kong Umbrella Movement.*
- 3:20** Fabian Frenzel\*, University of Leicester; Niko Rollmann, Independent Scholar, *From protest camp to tent city: the 'Free Cuvry' camp in Berlin-Kreuzberg.*
- Discussant(s): Patrick McCurdy, University of Ottawa

## 1545. Curating (in)security: Unsettling Geographies of Cyberspace (1) (Sponsored by Political Geography Specialty Group, Communication Geography Specialty Group)

- Room:** Constitution B, Sheraton, Second Floor (Paper Session)
- ORGANIZER(S): Andrew Dwyer, University of Oxford; Pip Thornton, Royal Holloway, University of London
- CHAIR(S): Louise Amoore, Durham University
- 2:40** Philip Garnett\*, University of York, *Vectorising the Human: Algorithmic Classification of People in High Dimensional Space.*
- 3:00** Martin Dodge\*, University of Manchester.ac.uk, *Security, Cyber-Criminality and Smart Cities: historical contexts, current vulnerabilities and risks, and three categories of response.*
- 3:20** Nicholas Robinson\*, Royal Holloway, University of London, *How to Backup your Nation-State in a Digital Era: The Estonian Data Embassy.*
- 3:40** Vincent Miller\*, University of Kent; Gonzalo C Garcia, Dr., University of Warwick, *Digital Ruins.*
- Discussant(s): Nathaniel O'grady, Durham University

## 1548. Situating Smart 2: Spatial and Material Politics of Smart Urbanisation (Sponsored by Urban Geography Specialty Group)

- Room:** Beacon D, Sheraton, Third Floor (Paper Session)
- ORGANIZER(S): Andrew Karvonen, University of Manchester; Federico Cugurullo, Trinity College Dublin
- CHAIR(S): Federico Cugurullo, Trinity College Dublin
- 2:40** Luis Carvalho\*, University of Porto, *Beyond the Corporate Smart City: Embedding Civic Hackers in Smart City Innovation.*
- 3:00** Gregory Patrick Trencher, Ph.D.\*, Clark University (Graduate Program Environmental Science & Policy); Andrew Karvonen, Ph.D., KTH Royal Institute of Technology, *Stretching "smart": Enhancing human well-being through the smart city agenda.*
- 3:20** Per Gunnar Røe\*, University of Oslo, Department of Sociology and Human Geography; Bengt Andersen, Oslo and Akershus University College of Applied Sciences, Work Research Institute, *Socially Splintering Smartness - How Smart Strategies are Selectively Deployed in Transformation and Design in Oslo.*
- 3:40** Ugo Rossi\*, Università di Torino, *Technology-based*

*urbanism and its discontents: Promises and contradictions of the 'smart-happy' city.*

- 4:00** Simon Wind, PhD, MA Urban Design\*, Aalborg University; Andrea Victoria Hernandez, MA Urban Design, Architect, Aalborg University; Liselott Stenfeldt, Architect, Alexandra Institute, *Smart Placemaking - materialisations of the Smart City in small and human scale.*

## 1549. Urban Rural Eastern European Subjectivities

- Room:** Beacon E, Sheraton, Third Floor (Paper Session)
- ORGANIZER(S): Program Committee
- CHAIR(S): Lisa Skryzhevskaya, Miami University Of Ohio
- 2:40** René Matlovic\*, University of Prešov; Kvetoslava Matlovicová, University of Prešov, *The multiple deprivation in Slovakia - new sociographic mapping of the marginalized Roma communities.*
- 3:00** Mirek Dymitrow\*, University of Gothenburg, Sweden, *'If they are not urban, then they must be rural': On the iatrogenic effects of cultural stereotypes in socially deprived areas.*
- 3:20** Liza Skryzhevskaya\*, Miami University Of Ohio; Dávid Karácsonyi, Hungarian Academy of Science; Kateryna Botsu, American University, *Separatism in Donbas in the Context of Ukraine's Regional Diversity.*

## 1550. Human geographies of the rural United States (Sponsored by Rural Geography Specialty Group, Cultural Geography Specialty Group)

- Room:** Beacon F, Sheraton, Third Floor (Paper Session)
- ORGANIZER(S): Matthew Cook, Eastern Michigan University
- CHAIR(S): Alice Black, Missouri State University
- 2:40** Jordan Michael McAlister\*, Oklahoma State University, *Preserving County Courthouses in the United States.*
- 3:00** Hannah M Elliott\*, Keene State College; Alison Gilleran, Keene State College; Gillian Davis, Keene State College; Kyle Roberts, Keene State College, *Not your village nor my village, but our town, A community resource inventory for the town of Swanzy, New Hampshire..*
- 3:20** Paul B. Frederic\*, University of Maine - Farmington, *The New England Town Meeting and Rural Conflict Resolution.*
- 3:40** Glen Conner\*, Western Kentucky University, *Finding One's Place in Kentucky.*
- 4:00** Alice (Jill) Black, Ph.D., Missouri State University, *The Ozarks: Still Distinctive in the 21st Century or "Just Rural"?*

## 1553. Rural migrants in Chinese Cities: Challenges and Opportunities-2 (Sponsored by China Specialty Group)

- Room:** Dalton A, Sheraton, Third Floor (Paper Session)
- ORGANIZER(S): Xiaobo Su, University of Oregon; Xiang KONG, East China Normal University
- CHAIR(S): Xiang KONG, East China Normal University
- 2:40** Rong Wu\*, Sun Yat-san University, *Socio-spatial differentiation of high-speed urbanizing Shenzhen, China.*
- 3:00** Hongxia Wang\*, Shanghai Academy of Social Science; hongxia wang, Shanghai Academy of Social Sciences, *A study on the status of social segregation of Floating Population and its' change in Mega Cities in China.*
- 3:20** Zhu Huasheng\*, Beijing Normal University; Junwei Feng, Beijing Normal University, China; Fenghua Pan, Beijing Normal University, China, *Social and Institutional Embeddedness and Entrepreneurship Activities of Rural Migrants in Cities: A Case of Yuhuan, China.*
- Discussant(s): Xiang KONG, East China Normal University

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ORGANIZER(S): Program Committee

CHAIR(S): Joshua Regan, Western Connecticut State University

**2:40** Raquel Garcia Gonçalves, Universidade Federal de Minas Gerais; Ricardo Viana Carvalho de Paiva, Centro Universitário Una; Karina Machado de Castro Simão, Universidade Federal de Minas Gerais; Viviane Silva Ramos, Universidade Federal de Minas Gerais, *URBAN CONFLICTS, TERRITORIES AND POWER*.

**3:00** Andrew Martin Linke, PhD\*, University of Utah, *A comparative geographical analysis of international foreign aid and violent conflict*.

**3:20** Julia Tierney\*, University of California Berkeley, *Discourses of War: Hezbollah, the U.S. Treasury and its Warfare by Other Means on the Lebanese Financial System*.

**3:40** Joshua Regan\*, Western Connecticut State University, *State weakness and the threat of terrorism: A longitudinal and global perspective*.

**1556. Feminist Political Geographies 4: Feminist Perspectives on Science and Materiality (Sponsored by Geographic Perspectives on Women Specialty Group, Cultural Geography Specialty Group)**Room: *Hampton B, Sheraton, Third Floor* (Paper Session)

ORGANIZER(S): Jill Williams, Southwest Institute for Research on Women; Vanessa Anne Massaro, Bucknell University; Caroline Faria, University of Texas - Austin

CHAIR(S): Vanessa Anne Massaro, Bucknell University

**2:40** Elisa Arond\*, Clark University, *Intersecting geographical and socio-technical imaginaries in decentralizing science, technology and innovation for regional development in Colombia*.

**3:00** Joanne P. Sharp\*, University of Glasgow, *Forensics, geopolitics and feminist materialism*.

**3:20** Susannah Clement\*, University of Wollongong, *Walking with prams: considering 'affect' in making family-friendly cities-on-the-move*.

**3:40** Suncana Laketa\*, University of Zurich; Sara Fregonese, University of Birmingham, *Banal Terrorism and the Urban Geopolitics of Affect: Exploring the Emotional Mechanisms of Lockdown in Paris and Brussels*.

Discussant(s): Sallie A. Marston, University of Arizona

**1557. The Dark Side of Open Data - Part Two**Room: *Gardner A, Sheraton, Third Floor* (Paper Session)

ORGANIZER(S): Pamela Jean Robinson, Ryerson University; Peter A. Johnson, University of Waterloo; Teresa Scassa, University of Ottawa

CHAIR(S): Renee Sieber, McGill University

**2:40** Monica G. Stephens\*, University At Buffalo, *Hyper-local OpenData and Data Democracy Across Scales*.

**3:00** Peter A. Johnson, PhD\*, University of Waterloo, *Municipal Open Data: A Slow Death?*.

**3:20** Teresa Scassa\*, University of Ottawa, *Government use of georeferenced social media data and analytics: challenges for transparent and open government*.

**3:40** Keira Webster, BA\*, Ryerson University; Pamela Robinson, PhD, MCIP, RPP, Ryerson University, *Fostering the 'Time is Now' Mentality: the Role of Open Data in Urban Climate Resilience*.

**4:00** Pamela Jean Robinson\*, Ryerson University, *Unlocking the Civic Potential of Open Data: Whose job is it?*.

**1558. Research Ethics in Human Geography: International Perspectives**Room: *Gardner B, Sheraton, Third Floor* (Panel Session)

ORGANIZER(S): Kathrin Hörschmann, Leibniz-Institute for Regional Geography; Judith Miggelbrink, Leibniz Institute for Regional Geography; Sebastian Henn, University of Jena

CHAIR(S): Kathrin Hörschmann, Leibniz-Institute for Regional Geography

Introducer: Sebastian Henn

Panelists: Michael N. Solem, American Association of Geographers; Ritwika Biswas, Temple University; Regina Scheyvens, Massey University; Kathrin Hörschmann, Leibniz-Institute for Regional Geography; Robin Biddulph, University of Gothenburg; Christine Eriksen, University of Wollongong

**1559. Health, Education, Policy, and Modelling**Room: *Fairfax A, Sheraton, Third Floor* (Interactive Short Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Kyung In Huh, California State Polytechnic University

**2:40** Candice Danielle Wilfong, M.Ed., M.S.\*, Vanderbilt University, *Disrupting the Norm: Social Enterprise and Employment Arrangements for Women in Recovery*.

**2:48** Suparna Das, Ph.D, HIV/AIDS, Hepatitis, STD and TB Administration (HAHSTA) at District of Columbia Department of Health; Jessica Jiayi Li\*, MPH Biostatistics Candidate, The George Washington University, *Geospatial Analysis of Rates of Newly Diagnosed HIV Cases From 2010 to 2015 in the District of Columbia*.

**2:56** Bara Safarova\*, Texas A&M, *Environmental and housing characteristics predicting increased risk of Chagas disease occurrences in Rio Grande Valley, Texas*.

**3:04** Diego F Cuadros, PhD\*, University of Cincinnati; Frank Tanser, PhD, University of KwaZulu-Natal; Andrew Tomita, PhD, University of KwaZulu-Natal; Alain Vandormael, PhD, University of KwaZulu-Natal, *Spatial clustering of depression: Could infectious diseases been associated with depression?*.

**3:12** Jeffrey Burkhalter\*, US Army ERDC; Elizabeth Bastian, US Army ERDC; Claire Munaretto, University of Illinois-Urbana/Champaign; Charles Ehlschlaeger, US Army ERDC, *GIS in the Time of Cholera: Epidemiologic Risk Assessment at Neighborhood Scale*.

**3:20** Anya Z. Butt\*, Central College; Ellen DuPre, Central College, *Creating a consortium focused on global health for institutions*.

**3:28** Yuichi Kobayashi\*, Keio University; Mizuki Kawabata, Keio University, *New medical areas based on accessibility to medical facilities: the case of emergency notice hospitals in the main island of Okinawa, Japan*.

**3:36** Charles Robert Ehlschlaeger, PhD\*, Engineer Research and Development Center; Elizabeth G Bastian, US Army Engineer Research and Development Center; Yizhao Gao, University of Illinois, Department of Geography; Jeffrey A Burkhalter, US Army Engineer Research and Development Center, *Quantifying the Uncertainty of Population Weighting of Twitter Analyses for Disaster Relief Risk Assessment*.

**3:44** Patrick Womac\*, University of Maine, *Piloting GeoBeast: A platform for students to house local history spatially*.

**3:52** Anna Yaresko\*, V.N.Karazin Kharkiv National University; Alexander Zhemerov, V.N.Karazin Kharkiv National University; Oleg Dmytrykov, V.N.Karazin Kharkiv National University, *The main directions in scientific research of continuous geographical education*.

**4:00** Fengtao Guo\*, East China Normal University; Joseph Martin Lane, Western Michigan University; Yushan Duan, East China Normal University, *Sustainable development in geography education for middle school in China*.

**4:08** Kyung In Huh\*, California State Polytechnic University; Lin Wu, California State Polytechnic University, *Redesigning General Education Physical Geography with Virtual labs*.

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## 1560. Hazards Risks and Disasters 4 - Population Impacts (Sponsored by Hazards, Risks, and Disasters Specialty Group)

Room: Fairfax B, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Eric Tate, University of Iowa; Johanna L. Ostling

CHAIR(S): Johanna L. Ostling

2:40 David A. Call\*, Ball State University; Caleb S Wilson, Ball State University; Kacie N Shourd, University of Nevada Reno, Desert Research Institute, *Hazardous weather conditions and multiple-vehicle chain-reaction crashes in the United States*.

3:00 Alan W. Black\*, Louisiana State University, *Rainfall Impacts on Automobile Crashes in the United States*.

3:20 Marius J Paulikas\*, Bowling Green State University; Thomas Schmidlin, Kent State University, *U.S. Tornado Fatalities in Motor Vehicles (1991-2015)*.

3:40 UBYDUL HAQUE\*, US National Center for Atmospheric Research, Boulder, Colorado, USA; Gregory E Glass, Department of Geography, University of Florida, Gainesville, USA, *Globally increasing deadly landslides*.

4:00 Michael Allen\*, Old Dominion University, *The Modified Risk of Heat Waves: Comparing Duration and Seasonality (1975 - 2004)*.

## 1562. Coastal and Aeolian Geomorphology II: Aeolian Processes and Landforms (Sponsored by Coastal and Marine Specialty Group, Geomorphology Specialty Group)

Room: Kent, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Phillip P. Schmutz, University of West Florida; Patrick Barrineau, Texas A&M

CHAIR(S): Phillip P. Schmutz, University of West Florida

2:40 Nancy L. Jackson\*, New Jersey Institute Of Technology; Karl F. Nordstrom, Rutgers University, *Aeolian transport to protective foredunes during onshore winds*.

3:00 Karl F. Nordstrom\*, Rutgers University, *Aeolian sediment transport from a foredune to the beach and swash zone*.

3:20 Jean Taylor Ellis\*, University of South Carolina; Douglas Sherman, University of Alabama, *Aeolian Ripple Morphology and Evolution*.

3:40 Douglas J. Sherman\*, University of Alabama; Jean Taylor Ellis, University of South Carolina, *Aeolian Ripple Migration Rates*.

4:00 Bernard O. Bauer, PhD\*, University of British Columbia - Okanagan; Robin Davidson-Arnott, PhD, University of Guelph; Ian Walker, PhD, Arizona State University; Michael Grilliot, University of Victoria, *On The Use of High-Frequency Particle Counters in Aeolian Field Experiments: Challenges, Opportunities, and a Call to Action*.

## 1564. Advances in Cyanobacteria Research: Monitoring, Modeling, and Data Visualization 2 (Sponsored by Remote Sensing Specialty Group)

Room: Boylston, Marriott, First Floor (Paper Session)

ORGANIZER(S): Amber Rose Ignatius, Environmental Protection Agency - Athens, GA; Jeffrey Hollister, US EPA; Deepak Mishra, University of Georgia

CHAIR(S): Amber Rose Ignatius, Environmental Protection Agency - Athens, GA

2:40 Benjamin Page\*, University of Georgia, *A multi-satellite based technique for rapid detection and monitoring of cyanobacterial algal blooms across inland waters*.

3:00 Jing Huang, Louisiana State University; Yujie Hu, Rice University; Lei Wang\*, Louisiana State University; Richard Beck, University of Cincinnati; Hongxing Liu, University of Cincinnati, *Mapping Blue Algae Using Random Forests from Landsat 8*.

Discussant(s): Amber Rose Ignatius, Environmental Protection Agency - Athens, GA; Jeffrey Hollister, US EPA; Deepak Mishra, University of Georgia

## 1565. European Financial Geographies in Flux III

Room: Tremont, Marriott, First Floor (Paper Session)

ORGANIZER(S): David Bassens, Free University of Brussels; Michiel Van Meeteren, Vrije Universiteit Brussel; Reijer Hendrikse, Vrije Universiteit Brussels

CHAIR(S): Susanne Klara Heeg, Goethe University

2:40 Jonathan Beaverstock\*, University of Bristol, UK, *BREXIT and the death of the City's global talent pool and financial networks*.

3:00 Ewald Engelen\*, University of Amsterdam; Sabine Doerry, Luxembourg Institute of Socio-Economic Research, *Probing response strategies of networked elites to the newly politicised sweetheart deals in two key corporate tax transfer havens. The examples of Luxembourg and the Netherlands*.

3:20 Sarah Hall\*, University of Nottingham, *Respatialising elites: Chinese migration in London's international financial district*.

3:40 Maëlys Waiengnier\*, Free University Brussels (VUB-ULB); David Bassens, Free University Brussels (VUB); Gilles Van Hamme, Free University Brussels (ULB); Reijer Hendrikse, Free University Brussels (VUB); Pablo Medina-Lockhart, Free University Brussels (ULB), *Location strategies of advanced services in Brussels*.

Discussant(s): Martin Sokol, Trinity College Dublin

## 1566. States and Civil Societies in Eurasia (Sponsored by Eurasian Specialty Group, Development Geographies Specialty Group, European Specialty Group)

Room: Columbus 1, Marriott, First Floor (Paper Session)

ORGANIZER(S): Jeremy Tasch, Towson University

CHAIR(S): Jeremy Tasch, Towson University

2:40 Lotta Cécile Koistinen\*, University of Turku, *Governance of irregular migration: bio- and geopolitical aspects*.

3:00 Sami Moisio\*, University of Helsinki, *Geopolitics of the knowledge-based society*.

3:20 Evan Centanni\*, Political Geography Now, *Accounting for Statehood Beyond Political Recognition: Proposing a "De Facto States Index"*.

3:40 So Hyung Lim\*, University of Wisconsin-Milwaukee, *The implications of Developmental Governmentality: Putting Developmental State Theory into Governmentality*.

Discussant(s): Nathaniel S. Trumbull, University of Connecticut

## 1567. Land Cover and Land Use Classification: Classifiers, Data Dimensions, Auxiliary Data, and Training Data. (Sponsored by Geographic Information Science and Systems Specialty Group, Remote Sensing Specialty Group)

Room: Columbus 2, Marriott, First Floor (Paper Session)

ORGANIZER(S): Zhe Zhu, Texas Tech University; Chengbin Deng, Binghamton University, SUNY; Suming Jin, ASRC Federal InuTeq, contractor to USGS EROS

CHAIR(S): Zhe Zhu, Texas Tech University

Introducer: Zhe Zhu

2:40 Zhe Zhu\*, Texas Tech University, *Optimizing selection of training and auxiliary data for operational land cover classification for the LCMAF initiative*.

3:00 Suming Jin\*, ASRC Federal InuTeq, contractor to USGS EROS; Limin Yang, Stinger Ghaffarian Technologies (SGT), Consultant, USGS EROS; Collin Homer, U.S. Geological Survey (USGS) Earth Resources Observation and Science (EROS) Center; Zhe Zhu, Texas Tech University, *Water and Ice/Snow Change Mapping between NLCD circa 2001 and 2011 in Alaska*.

3:20 Jonnie Blue Dunne, MS\*, University of Washington; L Monika Moskal, PhD, University of Washington, *Comparison of Structure from Motion and Lidar Data for Use in Land Cover Mapping*.

3:40 Chengbin Deng\*, Binghamton University, SUNY, *Mapping*



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*subpixel urban impervious cover using spectral unmixing and machine learning.*

- 4:00** Rebecca L. Powell\*, University of Denver; Sydney M. Firmin, M.A., University of Denver; Ryan J. Isherwood, M.S., University of Denver, *Optimizing random forests regression to predict woody cover in savanna ecosystems.*

**1568. Issues in Ethnic Geography: Contested Spaces, Urban Regeneration and Place Identity-I (Sponsored by Population Specialty Group, Urban Geography Specialty Group, Ethnic Geography Specialty Group)**

- Room:** *St. Botolph, Marriott, Second Floor* (Paper Session)  
 ORGANIZER(S): Madhuri Sharma, University of Tennessee, Knoxville; Paul N. McDaniel, Kennesaw State University; Richard N. Gioioso, Political Science, Saint Joseph's University  
 CHAIR(S): Paul N. McDaniel, Kennesaw State University  
**2:40** Zahra Khalid\*, University of California - Berkeley, *Citizen or Terrorist? Contesting the working class' right to the city in Islamabad.*  
**3:00** Alexander Stewart\*, UC Berkeley, *Spaces of Emergent Citizenship: Civic Participation and Consumption within Los Angeles's Indoor Swap Meets.*  
**3:20** Sanan Moradi\*, University of Oregon, *Mellat and Qown: The Discursive Construction of 'Nation' and 'Ethnicity' in Iran.*  
**3:40** Katherine Cann\*, George Washington University; Elizabeth Chacko, George Washington University, *Contraction and Conversion: Washington, D.C.'s Chinatown.*  
**4:00** Richard N. Gioioso, Ph.D.\*, Political Science, Saint Joseph's University, *What it means to be a winner: Cuban youth, upward mobility, international ties, and the urgency to leave.*

**1569. Writing-up Qualitative Research (Sponsored by Qualitative Research Specialty Group, Geographic Perspectives on Women Specialty Group)**

- Room:** *Regis, Marriott, Third Floor* (Panel Session)  
 ORGANIZER(S): Amy Piedalue, University of Washington  
 CHAIR(S): Amy Piedalue, University of Washington  
 Discussant(s): Caroline Nagel, University of South Carolina  
 Panelists: Amy Piedalue, University of Washington; Ursula Lang, University of Glasgow; Victoria A. Lawson, University of Washington

**1570. Hydroclimatic change in mountain environments II: Stream Discharge Characteristics (Sponsored by Climate Specialty Group, Cryosphere Specialty Group, Mountain Geography Specialty Group)**

- Room:** *Northeastern, Marriott, Third Floor* (Paper Session)  
 ORGANIZER(S): Robert Hellström, Bridgewater State University; Bryan G. Mark, The Ohio State University  
 CHAIR(S): Bryan G. Mark, The Ohio State University  
**2:40** Gregory S. Vandeberg\*, University Of North Dakota; Jeffrey A. VanLooy, University of North Dakota, *Glacial Meltwater Chemistry and Contributions to Streams in the Wind River Range, Wyoming.*  
**2:57** Emilio Mateo\*, University of Denver, *Rock Glacier Hydrology in the San Juan Mountains, CO.*  
**3:14** Yong Q. Tian\*, Central Michigan University; Qian Yu, University of Massachusetts, Amherst, *Extreme storm events with snowpack pose a risk of DOC fluxes to aquatic ecosystem.*  
**3:31** Christopher Ely\*, Appalachian State University; Derek J Martin, Assistant Professor of Geography, Department of Geography and Planning, *A Geomorphic Characterization of the Ningar River, Ecuador: Implications for Dam Construction on Andean Páramo Rivers.*  
**3:48** Bryan G. Mark\*, The Ohio State University; Jeffrey McKenzie, McGill University; Michel Baraer,

University of Quebec, ETS; Laura Lautz, Syracuse University; Lauren Somers, McGill University; Oliver Wigmore, University of Colorado; Robert Hellstrom, Bridgewater State University; Pablo Lagos, Instituto Geofísico del Perú, *Glacier-Water Fluxes, Feedbacks and Groundwater Connections in the Peruvian Andes.*

**1571. Mobile dwelling 3: Spacing**

- Room:** *Brandeis, Marriott, Third Floor* (Paper Session)  
 ORGANIZER(S): David Bissell, Australian National University; Andrew Gorman-Murray, Western Sydney University  
 CHAIR(S): David Bissell, Australian National University  
**2:40** Hanne Louise Jensen\*, Aalborg University; Maja De Neergaard\*, Roskilde University, *On the relation between mobility and inhabitation.*  
**3:00** Andrew Gorman-Murray\*, Western Sydney University; David Bissell, Australian National University, *Mobile work, multilocality and spaces of wellbeing.*  
**3:20** Mike Duggan, Royal Holloway University of London, *Tuning a sense of place.*  
**3:40** Mark Holton, Dr, Plymouth University; Kirsty Finn, Dr, Lancaster University, *Inhabiting student mobilities - performing, transforming and disrupting mobile dwelling in term-time locations.*  
**4:00** Melora Koepke\*, Simon Fraser University, *Welcome to 'la jungle': Eventful dwelling, immanent inhabitation, and the politics of belonging.*

**1572. Changing Landscapes and Livelihoods in the Amazon Basin 1 (Sponsored by Cultural and Political Ecology Specialty Group, Latin America Specialty Group)**

- Room:** *MIT, Marriott, Third Floor* (Paper Session)  
 ORGANIZER(S): Christian Abizaid, University of Toronto; David S. Salisbury, University Of Richmond  
 CHAIR(S): David S. Salisbury, University Of Richmond  
**2:40** Oliver T. Coomes\*, McGill University; Yoshito Takasaki, Ph.D., Graduate School of Economics, University of Tokyo, Tokyo, Japan; Christian Abizaid, Ph.D., Department of Geography & Planning and School of Environment, University of Toronto, Toronto, Canada; Pablo Arroyo-Mora, Ph.D., National Research Council of Canada, *Impoverishment of local environmental resources in western Amazonia: results from a large-scale community study.*  
**3:00** Christian Abizaid\*, University of Toronto; Oliver T. Coomes, McGill University; J. Pablo Arroyo-Mora, Phd, McGill University; Margaret Kalacska, McGill University; Yoshito Takasaki, University of Tokyo, *Community exposure to natural environmental hazards in riverine Peruvian Amazonia.*  
**3:20** Lauren Ruth Wustenberg\*, McGill University, *Dynamic adaptation of peasant agriculture to environmental variability in the Peruvian Amazon.*  
**3:40** Cristina Gauthier, Vanessa Boanada-Fuchs, Co-Author, *Public Policy and Sanitation Issues raised by Amazonian Dam Expansion.*  
**4:00** Margaret Buck Holland, PhD\*, University of Maryland - Baltimore County; Kelly W Jones, PhD, Warner College of Natural Resources, Colorado State University; Lisa Naughton-Treves, PhD, Dept. of Geography, U. Wisconsin-Madison; Nicolle Etchart, MSc, Dept. of Geography, U. Wisconsin-Madison; Luis Suarez, MSc, Conservacion Internacional, Ecuador; Montserrat Alban, MSc, Conservacion Internacional, Ecuador; Carolina Rosero, MSc, Conservacion Internacional, Ecuador, *Additionality and forest conservation impact of SocioBosque on indigenous lands in the Ecuadorian Amazon.*

**1573. Symposium on Human Dynamics in Smart and Connected Communities: Time-geography in the making 2**

- Room:** *Boston University, Marriott, Third Floor* (Paper Session)

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ORGANIZER(S): Kajsa Ellegård, Linköping University

CHAIR(S): Kajsa Ellegård, Linköping University

**2:40** Michael J. Widener\*, University of Toronto; JieLan Xu, University of Toronto, *Exploring the relationship between food shopping behaviour and transportation with time use data.*

**3:00** Jinhyung Lee\*, The Ohio State University; Harvey J Miller, The Ohio State University, *Measuring changes in space-time accessibility before and after public transit innovation.*

**3:20** Hongbo Yu, PhD\*, Oklahoma State University, *Analyzing Bundles of Space-time Paths.*

**3:40** Young Jaegal\*, Ohio State University; Harvey Miller, Ohio State University, *Similarity Measures for Network Time Prisms Using Graph Theoretic Measures.*

**4:00** Kajsa Ellegård\*, Linköping University, *Coupling - a fundamental time-geographic concept.*

**1574. CyberGIS Curriculum Development in Higher Education (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group)**

Room: Simmons, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Jennifer N. Swift, University of Southern California; Eric Shook, University of Minnesota

CHAIR(S): Jennifer N. Swift, University of Southern California  
**2:40** Forrest J. Bowlick\*, University of Massachusetts - Amherst, *Organizing a CyberGIS Curriculum.*

**3:00** Ziheng Sun\*, George Mason University; Liping Di, George Mason University; Chen Zhang, George Mason University; Liying Guo, Chinese Academy of Agricultural Sciences; Xicheng Tan, Wuhan University; Lili Jiang, Chinese Academy of Sciences; Hui Fang, George Mason University, *CyberConnector: A Key Joint Part in the Future Web of Earth Science Models and Earth Observation Data Products.*

**3:20** Johnathan Rush\*, University of Illinois; Dandong Yin, University of Illinois; Shaowen Wang, University of Illinois; Anand Padmanabhan, University of Illinois; Myeonghun Jeong, University of Illinois, *Accelerating CyberGIS Education with Jupyter Notebooks.*

**3:40** Patrick Rickles\*, University College London, *Context Based Learning using ArcGIS Online: GIS Lessons for You.*

Discussant(s): David DiBiase, Esri

**1575. UNTAPPED: Fresh Voices in Water Resources Geography 1 (Sponsored by Graduate Student Affinity Group, Water Resources Specialty Group)**

Room: Suffolk, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Brian C. Chaffin, University of Montana; Jacob Petersen-Perlman, University of Arizona

CHAIR(S): Jacob Petersen-Perlman, University of Arizona

**2:40** Rebecca Brice\*, University of Arizona, *Paleoclimatic Indicators of Surface Water Resources in the Chuska Mountains, Navajo Nation.*

**3:00** Rebecca Kauten\*, University of Iowa, *Hydrologic Footprints of Urban Micro-Watersheds in Cold Climates: Assessing Impacts of Winter Roadway Runoff.*

**3:20** Daniel Larson\*, Portland State University, *Consider the Source: An Assessment of Customer Support for Source Water Protection in the Greater Portland Area.*

Discussant(s): Jacob Petersen-Perlman, University of Arizona

**1576. Symposium on Human Dynamics in Smart and Connected Communities: Smart Cities and Urban Computing 3 (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group, Spatial Analysis and Modeling Specialty Group)**

Room: Wellesley, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Xinyue Ye, Kent State University; Shaowen Wang, University of Illinois at Urbana-Champaign

CHAIR(S): Ying Song, University of Minnesota - Minneapolis, MN

**2:40** Ying Song\*, University of Minnesota - Twin Cities; Harvey J Miller, The Ohio State University; Jeff Stempihar, Arizona State University; Xuesong Zhou, Arizona State University, *Green Accessibility: Estimating the Environmental Costs of Network-time Prisms for Sustainable Transportation Planning.*

**3:00** Daniel Schleith\*, University of Cincinnati; Michael J. Widener, PhD, University of Toronto; Lin Liu, PhD, University of Cincinnati, *Assessing the Delineated Commuter Sheds of Different Clustering Methods.*

**3:20** DRISTI NEOG\*, Westfield State University - Westfield, MA, *The effect of light rail systems on urban form: A spatio-temporal analysis of selected light rail systems on urban density.*

**3:40** Florent Le Néchet\*, Université Paris-Est, Laboratoire Ville Mobilité Transport, UPEM, *Geographic data for activity-based model of transit patronage variability.*

**4:00** Yangyi Wu, University of Utah; Yehua Dennis Wei, University of Utah, *Urban Amenity, Housing Sub-market and House Values Using Big Data: A Case Study in Salt Lake County.*

**1577. Extra-regional dynamics of territorial development IV: Path Creation and Regional Development**

Room: Harvard, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Stuart Dawley, CURDS, Newcastle University; Danny Mackinnon, Newcastle University

CHAIR(S): Danny Mackinnon, Newcastle University

**2:40** Arne Isaksen, University of Agder; Michaela Trippel, University of Vienna, *External linkages and new regional industrial path development in non-core regions: from simple to complex forms of embeddedness.*

**3:00** Mário Vale\*, Universidade de Lisboa; Luís Carvalho, Universidade do Porto, *Biotech by Bricolage? Diversification and new path development in a peripheral region.*

**3:20** Nick Henry, Dr\*, Coventry University; Tim Angus, Dr, Coventry University; Mark Jenkins, Professor, Cranfield University, *'Rooted in and routed through': Motorsport Valley, multi-scalarity and motoring on.*

**3:40** Petr Pavlinek\*, University Of Nebraska at Omaha and Charles University, *FDI and Regional Development in Integrated Peripheries: Supplier Linkages in the Automotive Industry in Slovakia.*

**1579. Sustainable Urban Land Systems (Sponsored by Cultural and Political Ecology Specialty Group, Human Dimensions of Global Change Specialty Group, Energy and Environment Specialty Group)**

Room: Arlington, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Richard J. Aspinall; V. Kelly Turner, Kent State University; Christopher Galletti, Dartmouth College

CHAIR(S): Burak Guneralp, Texas A&M University

**2:40** V. Kelly Turner\*, Kent State University, *The Real Estate Rigidity Trap: Barriers and Solutions to Developing Sustainable Urban Land Systems.*

**3:00** Christopher S Galletti, Dartmouth College, *Getting Down to the Nitty-Gritty: Using Earth Observation Platforms to Study Neighborhood-Scale Sustainable Urban Land Systems.*

**3:20** Guang Xing\*, Florida State University; Tingting Zhao, Florida State University, *Simulation of sustainable urban development scenarios in metropolitan areas using cellular automata and multi-criteria evaluation: a case study of the Orlando metropolitan area.*

**3:40** Brian Michael Napoletano\*, CIGA - UNAM; Jaime Panaque-Gálvez, CIGA - UNAM; Marcela Morales Magaña, ENES - UNAM, *Land change in the urban*

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*periphery as examined through the lens of geographic rift: Preliminary findings from Morelia, Mexico.*

**4:00** Burak Guneralp\*, Texas A&M University, *Urban futures and teleconnections.*

**1580. Interrogating land, property, and land use II: Land grabbing in the global north (Sponsored by Cultural and Political Ecology Specialty Group, Geographies of Food and Agriculture Specialty Group)**

*Room:* Berkeley, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Donald Leffers; Gerda R. Wekerle, York University

CHAIR(S): Gerda R. Wekerle, York University

**2:40** Sarah Rotz\*, University of Guelph, *Situating Tenure, Capital and Finance in Farmland Relations: Implications for stewardship and agroecological health in Ontario.*

**3:00** Sara Macdonald\*, York University, *Beyond the boundaries of the Greater Golden Horseshoe greenbelt: land grabbing and development pressures in Brant County, Ontario.*

**3:20** Gerda R. Wekerle\*, York University; Donald Leffers\*, *Fracturing Relations of Property, Land, and Land Use: The Dynamics of Farmland Investment and Transformation.*

**3:40** Megan Horst\*, Portland State University, *Rising Farmland Costs, Recent Buyers and the Changing Future of Farmland Ownership in Oregon, USA.*

**1581. Geographies of Care in the Spaces and Places of International Development I: Volunteer Tourism (Sponsored by Geographic Perspectives on Women Specialty Group)**

*Room:* Clarendon, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Amy Kipp, University of Guelph; Roberta Hawkins, University of Guelph

CHAIR(S): Roberta Hawkins, University of Guelph

**2:40** Hiu Yan Lee\*, The University of Hong Kong, *Enhanced wellbeing in volunteer tourism?.*

**3:00** Laura Riddering\*, University of Maryland - Baltimore County, *Care in development encounters: transnational volunteer tourism in Guatemala.*

**3:20** Yim Ming Kwong\*, University of Durham, *Geography of care and volunteer tourism in Asia.*

**3:40** Amy Kipp\*, University of Guelph; Roberta Hawkins, Associate Professor, University of Guelph; Noella Gray, Assistant Professor, University of Guelph, *The Gendered Experience of Volunteer Tourism.*

Discussant(s): Harnng Luh Sin, National University Of Singapore

**1582. Anarchist Political Ecology: Theoretical Horizons and Empirical Axes III - Urban Anarchism (Sponsored by Political Geography Specialty Group, Cultural and Political Ecology Specialty Group)**

*Room:* Dartmouth, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Simon Springer, University of Victoria; Martin Locret-Collet

CHAIR(S): Simon Springer, University of Victoria

**2:40** K. Michelle Glowa, PhD\*, California Institute of Integral Studies, *Decentralization, Gardens and Commoning: Agroecology as Anarchist Political Ecology in Action.*

**3:00** Sarah Gelbard, M.Arch.\*, McGill University, *Fuck the man: punk space and feminist counter-resistance.*

**3:20** Aaron Vansintjan\*, Birkbeck, University of London, *Territories in resistance in the global North? Food waste as fuel, con/tra the state.*

**3:40** Leor Uestebay\*, PhD Fellow, *Democratic confederalism and the new lines of communalism in Rojava/Northern Syria.*

**1583. 4th Special Session Retail aspects in Urban Geography and Urban Planning (Sponsored by Urban Geography Specialty Group, Economic Geography Specialty Group, Business**

**Geography Specialty Group)**

*Room:* Exeter, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Herman Kok, Multi / ODTU; Barbara Hahn, Würzburg University

CHAIR(S): Herman Kok, Multi / ODTU

Introducer: Herman Kok

**2:45** Mariangela Lavanga\*, Erasmus University Rotterdam, *Weren't brick-and-mortar retail stores supposed to be dead? The rise of concept stores and the reasons behind their success.*

**3:05** Sina Hardaker, Dr.\*, Julius-Maximilians-University of Würzburg, *Development and Outlook for Grocery Retailing Internationalization in China.*

**3:25** Anna Marie Steigemann\*, TU Berlin, *'Behind the curtain, it works' - Small Business Owners' Community Building Practices.*

**3:45** Herman Kok\*, Multi / ODTU, *From bazaar to mall: shopping centre development patterns in transforming cities.*

Discussant(s): Zoltan Kovacs, University of Szeged

**1584. Taste, Space, and the Urban Landscape II (Sponsored by Urban Geography Specialty Group, Cultural Geography Specialty Group, Geographies of Food and Agriculture Specialty Group)**

*Room:* Fairfield, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Robert D. Lemon, University of Texas at Austin; Cosima Werner, Heidelberg University

CHAIR(S): Robert D. Lemon, University of Texas at Austin

**2:40** Cosima Werner, University of Heidelberg, *The Inconvenience of Convenience Stores in the "American Ghetto".*

**3:00** Maki Hoshikawa\*, University of Yamanashi, *A local bitterness flying out to other markets in Japan from Okinawa -The potential of making the choice to produce bitter gourd for the sustainability of agriculture.*

**3:20** Tatiana Schor\*, Universidade Federal Do Amazonas, *Social policies, Urbanization and Food security in the Brazilian Amazon..*

**3:40** Aidan Hysjulien\*, University of Georgia, *Discipline and Care in the Supermarket: Reading Foucault Between the Aisles.*

**4:00** Pascale Joassart-Marcelli\*, San Diego State University; Fernando Javier Bosco, San Diego State University, *The Taste of Gentrification: How Foodies Are Transforming Urban Neighborhoods.*

**1585. New Records of Paleoenvironmental Change IV (Sponsored by Paleoenvironmental Change Specialty Group)**

*Room:* Salon H, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Anna Agosta G'meiner, McGill University; Matthew T. Kerr, The University of Tennessee

CHAIR(S): Anna Agosta G'meiner, McGill University

**2:40** Andrea Brunelle\*, University Of Utah; Jacqueline Shinker, University of Wyoming, *Sedimentary data contributing to understanding hydroclimatic variability.*

**3:00** Jacqueline J. Shinker\*, University of Wyoming; Andrea Brunelle, University of Utah, *Hydroclimatic drivers of desert wetland ecosystem variability.*

**3:20** Lawrence Kiage\*, Georgia State University; Meghan Howey, University of New Hampshire; Joel Hartter, University of Colorado; Michael Palace, University of New Hampshire, *Human impacts on Tropical Environments During the Holocene: A non-pollen palynomorphs and geochemical record from western Uganda.*

**3:40** Victoria Marie Simmons\*, University of Utah, *Paleo-Analysis of the Old River Bed Activity During the Holocene.*

**4:00** Kaylee Barket\*, University of Utah, *Paleoecology, Archaeology, and Tephra in the Bonneville Basin.*



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## 1586. Public Space in the City II: Contestation, Resistance, Politics and Possibilities (Sponsored by Political Geography Specialty Group, Urban Geography Specialty Group)

Room: Salon I, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Piper Gaubatz, University Of Massachusetts  
CHAIR(S): Piper Gaubatz, University Of Massachusetts  
Introducer: Piper Gaubatz

2:45 Paulo Da Costa Gomes\*, Universidade Federal do Rio de Janeiro; Leticia Parente Ribeiro, Ms\*, Universidade Federal do Rio de Janeiro, *Public Spaces as Places of Politics in Rio de Janeiro (Brazil)*.

3:05 Francisco Vivoni\*, Worcester State University; Carmen Ocon\*, Clark University, *Wandering in the Neoliberal City: Autoethnographic Interventions on the Regulation of Public Life*.

3:25 Mario Cardozo\*, Kutztown University, *Downtown Asuncion, Paraguay: A Democratic Place for Political Graffiti*.

3:45 Fahad Alhammadi\*, Durham University, *Global and Cultural Productions of NYC's Times Square Post-Pedestrianization*.

4:05 Paola Proietti\*, GSSI; Paola Monti, Bocconi; Michela Braga, Bocconi, *Elusive and Rare Populations in Cities. What can we learn by studying homeless' number and distribution in the 'Eternal City'?*.

## 1587. Building blocks and values in infrastructure: understanding agency, normativity, directionality & change III. Imaginaries and anticipation (Sponsored by Energy and Environment Specialty Group)

Room: Salon J, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Ralitsa Hiteva, SPRU, University of Sussex; Mark Usher, University of Manchester; Markus M. Bugge, NIFU

CHAIR(S): Katherine Lovell, University of Sussex

2:40 Chiara Farné Fratini\*, University of Sussex, *Making integrative imaginaries of water governance transitions visible: advancing nexus governance theorization for inclusive and desirable path-creation*.

3:00 Bipashyee Ghosh, Ms.\*, University of Sussex; Saurabh Arora, University of Sussex, *Transformative Potential Of Smart Mobility Infrastructure In Smart City Kolkata: A Discourse Analysis For Future Urban Imaginaries In India*.

3:20 Aad Correljé\*, Delft University of Technology; Eefje Cuppem, Delft University of Technology; Udo Pesch, Delft University of Technology; Behnam Taeby, Delft University of Technology, *Anticipating moral uncertainties in the innovation of infrastructures*.

3:40 Andrew Donaldson\*, Newcastle University, UK, *Scaling anticipation: the operational and exceptional agencies of food infrastructure*.

4:00 Tom Dolan\*, UCL, *Can we Align Expectations (Desired Outcomes) with Infrastructure Decision Making*.

## 1588. Changing Livelihoods and Landscapes in East Africa (1 of 2) (Sponsored by Cultural and Political Ecology Specialty Group, Human Dimensions of Global Change Specialty Group, Africa Specialty Group)

Room: Salon K, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Timothy D. Baird, Virginia Tech; Clark Gray, University of North Carolina at Chapel Hill

CHAIR(S): Timothy D. Baird, Virginia Tech

2:40 Jessica Marter-Kenyon, Department of Geography, University of California Santa Barbara; Stuart H. Sweeney\*, University Of California Santa Barbara, *Planned Population Redistribution and its Impact on Family Formation in Rwanda*.

3:00 Maia Call\*, The University of North Carolina at Chapel Hill; Clark Gray, The University of North Carolina at Chapel Hill, *Climate Change, Environmental Degradation, and Migration in Uganda*.

3:20 Bronwen Powell, Penn State University; Mihret Admasu Wolde, Center for International Forestry Research; Nigussie Kerker, Center for International Forestry Research, *The fragile traditional Gumuz food system: environmental policy and adaptation in a marginalized Ethiopian ethnic group*.

3:40 Heather Randell, PhD, National Socio-Environmental Synthesis Center (SESYNC); Clark Gray, PhD, University of North Carolina - Chapel Hill, *Livelihood Adaptation to Climate Change in Rural Ethiopia*.

4:00 Timothy D. Baird\*, Virginia Tech, *Livelihood Diversification, Mobile Phones and Information Diversity in Northern Tanzania*.

## 1589. History of Geography II: Women in the History of Geography (Sponsored by Geographic Perspectives on Women Specialty Group, History of Geography Specialty Group)

Room: Vineyard, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Dorothy Sack, Ohio University

CHAIR(S): Stanley D. Brunn, University of Kentucky

2:40 Judith A. Tyner, Ph.D.\*, California State Univ, Long Beach, *Women Shaping The World: Women And Globes*.

3:00 Janice Monk, Research Professor\*, University of Arizona; Janice Monk, School of Geography and Development, University of Arizona, *The Normal Way: Exploring the Career Paths of Women Geographers in the U.S. ca.1880-1950*.

3:20 Henry W. Bullamore\*, Frostburg State University, *Travel Writing and the Historical Geography of Colonial Africa*.

3:40 Dorothy Sack\*, Ohio University, *C.A.M. King, Early Woman Geomorphologist*.

4:00 Bruce D'Arcus\*, Miami University of Ohio, *Cold War Geographer and a Public Intellectual*.

## 1590. Wine 4: Precision Viticulture: Applications of GIScience, GPS, and Remote Sensing (Sponsored by Wine Specialty Group)

Room: Yarmouth, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Christi Townsend, Texas State University -San Marcos

CHAIR(S): Christi Townsend, Texas State University -San Marcos

2:40 Christi G Townsend\*, Texas State University, San Marcos, Texas; Matthew Connolly, PhD, University of Central Arkansas; Clayton Whitesides, PhD, Coastal Carolina University, *A Preliminary Analysis of the Role of Fire Ants In Grapevine Health*.

3:00 Robert E. Davis\*, University of Virginia; Gregory V. Jones, Southern Oregon University; Kerrie A. Baciocco, University of Virginia, *Which Climatic Factors Determine Good vs. Poor Bordeaux Vintages?*.

3:20 Gregory V. Jones\*, Southern Oregon University, *A Climatology of Vintage Port Quality*.

3:40 Joseph Forrest\*, Resource Geoservices LLC; Jun Liang, Dept. of Geography, UNC Chapel Hill, *Growing degree day zonation: a proposed enhancement to the Winkler region methodology for viticultural classification*.

## 1591. Geographies That Matter: The Middle East Beyond the State (II) (Sponsored by Political Geography Specialty Group, Middle East Specialty Group)

Room: Nantucket, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Ali Hamdan, UCLA; Brittany Cook Barrineau, University of Kentucky

CHAIR(S): Ali Hamdan, UCLA

2:40 Defne Sarsilmaz\*, Florida International University, *Arab Alawite Women of Antakya: Agents of Social and Political Change*.

3:00 Hasnaa Mokhtar\*, Clark University, *Beyond Victims and Villains: Geopolitics of Gender-Based Violence in the*

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**3:20** Deen Sharp\*, CUNY GC, *The Middle East, Urban Space and the Corporation.*

**3:40** Luke Struckman\*, Carleton University, *Identity, Territory, and Conflict?: Escaping American Ethnographic Mappings of the Middle East.*

Discussant(s): Timur Hammond

**1592. Geospatial Health Research Symposium: Access to Health Care III (Sponsored by Spatial Analysis and Modeling Specialty Group, Health and Medical Geography Specialty Group, Transportation Geography Specialty Group)**

*Room:* Provincetown, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Zhu Jin, University at Buffalo; Yanjia Cao, University of Maryland; Michael J. Widener, University of Toronto

CHAIR(S): Zhu Jin, University at Buffalo

**2:40** Matthew Mittler\*, George Washington University, *Arguing for Localized Accessibility Modelling in the Rural Global South.*

**3:00** Julia K Wolanski, BS, Temple University, Department of Geography and Urban Studies; Kevin Henry, PhD\*, Temple University; Yohsiang F Hsu, BS, MA, Temple University, Department of Geography and Urban Studies, *Comparing daytime and nighttime population measures of geographic access to health care.*

**3:20** Jennifer Alford-Teaster, MA, MPH\*, Geisel School of Medicine - Dartmouth College; Jenna Schiffelbein, MPH, RD, LD, CHES, SNS, Norris Cotton Cancer Center (NCCC) - Dartmouth Hitchcock Medical Center; Martha Goodrich, MS, Geisel School of Medicine - Dartmouth College; Heather Carlos, MS, Geospatial Resource Center - Dartmouth Hitchcock Medical Center; Anna Adachi-Mejia, PhD, Norris Cotton Cancer Center (NCCC) - Dartmouth Hitchcock Medical Center; Tracy L Onega, PhD, MS, MPA, MA, Geisel School of Medicine, Dartmouth College; Norris Cotton Cancer Center (NCCC) - Dartmouth Hitchcock Medical Center, *Rural crossroads: an approach towards improving health information delivery methods and enhancing cancer control strategies in rural communities.*

**3:40** Timothy M. Shields\*, Johns Hopkins University; Timothy Shields, 1000139; Lynne Lohfeld, PhD, McMaster University; Jaiolos Lubinda, Macha Research Trust; Anton Kvit, Johns Hopkins University; William J Moss, PhD, MD, Johns Hopkins University; Frank Curriero, PhD, Johns Hopkins University, *Use of Spatial Analysis to Assess Seasonal Differences of Access to Care in Rural Zambia.*

**4:00** Emily Roberts\*, Oak Ridge National Laboratory; Nagendra Singh, Oak Ridge National Laboratory, *Spatio-temporal Analysis of Communities Experiencing Hospital Closures.*

**1593. Exploring Built Environment Transitions in Legacy Cities Using GIS and Geospatial Technology 1 (Sponsored by Urban Geography Specialty Group, Economic Geography Specialty Group)**

*Room:* Orleans, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Joseph Danko, University of Connecticut; George C. Bentley, Framingham State University

CHAIR(S): Joseph Danko, University of Connecticut

**2:40** George C. Bentley, Ph.D.\*, Framingham State University; Dean M. Hanink, Ph.D., University of Connecticut, *Quantifying Built Environment Transitions in Detroit, Michigan using Innovative and Accessible Geospatial Technologies.*

**3:00** Yuchen Li\*, Eastern Michigan University, *Neighborhood transition and escalating vacancy in metropolitan Detroit.*

**3:20** Courtney Tyler\*, Southern Illinois University Edwardsville,

*Gentrification and the Local Population's Perspectives along Milwaukee Avenue in Chicago.*

**3:40** Amanda Rzotkiewicz\*, Department of Geography, Michigan State University; Amber L. Pearson, Department of Geography and Environmental Science and Policy Program, Michigan State University; Department of Public Health, University of Otago, NZ; Jennifer L. Pechal, Department of Entomology, Michigan State University; Adam Zwickle, School of Criminal Justice and Environmental Science and Policy Program, Michigan State University; M. Eric Benbow, Department of Entomology and Department of Osteopathic Medical Specialties, Michigan State University; Carl J. Schmidt, Wayne County Medical Examiners Office and Department of Pathology, University of Michigan, *Assessing the potential effect of urban decay and recovery on the residents of Detroit, Michigan: A novel utilization of the postmortem microbiome.*

**4:00** Joseph Danko\*, University of Connecticut, *The Local Socioeconomic Impact of Destination Redevelopments in Detroit: A Geographically Weighted Shift-Share Analysis Approach.*

**1594. Environmental Justice Dimensions of Urban Greening 2: Planning for equity and justice in urban greening (Sponsored by Regional Development and Planning Specialty Group, Urban Geography Specialty Group)**

*Room:* Hyannis, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Hamil Pearsall, Temple University; Troy D. Abel, Western Washington University

CHAIR(S): Isabelle Anguelovski, Universitat Autònoma de Barcelona

**2:40** Christina D. Rosan, MCP, Ph.D\*, Individual Member; Megan Heckert\*, West Chester University, *Creating Planning Tools to Promote Equity through Urban Greening: Applying the Green Infrastructure Equity Index in Philadelphia.*

**3:00** Jonah White\*, Michigan State University; Troy Abel, Western Washington University, *Environmental Exposure Disparities and Gentrified Inequities: A Seattle, Washington Context.*

**3:20** Marisol Becerra, PhD Candidate\*, The Ohio State University, *Is Brownfield Redevelopment a Gentrifying Force? A Case Study of Chicago Brownfield Redevelopment.*

**3:40** Yang Xiao\*, Tongji University; Lingyun Fan, Suzhou University of Science and Technology; Jia Fang, Tongji University; Hongjun Zhou, Tongji University, *Exploring the Green Justice Issue Through Mobile Phone Data: Evidence from Shanghai, China.*

**4:00** Nufar Avni\*, McGill University, *"Transform. Connect. Engage": the 11th Street Bridge Park in Washington DC as a model for community benefits?.*

**1595. Unraveling Urban Property Norms, Practices, and Imaginaries 2: Transgressing property norms**

*Room:* Falmouth, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Olivia R. Williams, Florida State University Dept of Geography; Joseph Pierce, FSU; Kenton Card, University of California - Los Angeles

CHAIR(S): Olivia R. Williams, Florida State University Dept of Geography

**2:40** Kenton Card\*, University of California - Los Angeles, *Searching for an "actually existing urban commons:" private, state, and commons housing in Berlin.*

**3:00** Marianna Pavlovskaya\*, Hunter College and CUNY Graduate Center, *Place-making through ethical finance? Potential of credit unions in New York City.*

**3:20** James DeFilippis\*, Rutgers University, *On the Political Meanings of the Transformations of Property and Ownership in the United States.*



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**3:40** Deshonay Dozier\*, Graduate Center, CUNY, *Contested Development: Resisting, Reforming, and Restoring Property and Policing on Skid Row.*

**4:00** Stephen Przybylinski\*, Syracuse University, *Replacing Rights to the City.*

**1596. Publics, Pedagogies, and Praxis: Engaged Research and Scholarship in Critical Geography Session 4 Panel on Rethinking the Land Grant University (Sponsored by Cultural and Political Ecology Specialty Group, Ethics, Justice, and Human Rights Specialty Group, Socialist and Critical Geography Specialty Group)**

*Room:* Maine, Marriott, Fifth Floor (Panel Session)

ORGANIZER(S): Joel E. Correia, University of Colorado, Boulder; Jenny Elaine Goldstein, Cornell University; Tracey Osborne, University of Arizona

CHAIR(S): Jenny Elaine Goldstein, Cornell University

Introducer: Kasia Paprocki

Discussant(s): Tracey Osborne, University of Arizona; Jamie Shinn, West Virginia University

Panelists: Jonathan Latham, BioScience Research Project; Rachel Bezner Kerr, Cornell University; Jenny Elaine Goldstein, Cornell University; Mark Bomford, Yale Sustainable Food Program

**1597. Hazards and GIScience - II (Sponsored by Geographic Information Science and Systems Specialty Group, Spatial Analysis and Modeling Specialty Group, Cartography Specialty Group)**

*Room:* Massachusetts, Marriott, Fifth Floor (Paper Session)

ORGANIZER(S): Bandana Kar, University of Southern Mississippi; Tom Cova, University of Utah; Michael E. Hodgson, University of South Carolina

CHAIR(S): Tom Cova, University of Utah

**2:40** Marie Urban\*, Oak Ridge National Laboratory; Robert N. Stewart, Oak Ridge National Laboratory; Gautum L. Thakur, Oak Ridge National Laboratory; Kevin L. Sparks, Oak Ridge National Laboratory, *National and Regional Level Building Occupancy Reporting through the PDT Project: Review and Ongoing Research.*

**3:00** Moongi Choi\*, Kyung Hee University; Sung-Jin Cho, Transportation research institute (IMOB) at Hasselt university; Yelin Kim, Kyung Hee University; Taekeon Hwang, Kyung Hee University; Chul Sue Hwang, Kyung Hee University, *Estimation of population-segmented air pollution exposure for urban policy evaluation using activity based model.*

**3:20** Susan Ann Burtner\*, Oak Ridge National Laboratory; Jessica Moehl, Oak Ridge National Laboratory, *Generating Estimates for Building Exterior Wall Material Using Google Street View Images.*

**3:40** Dr. Mukul Sonwalkar\*, H3C LLC; Dr. Nigel Waters, Professor Emeritus of Geography, The University of Calgary, *Analyzing Movement Patterns With Geographic Context Using The Weights Of Evidence.*

**4:00** Tom Cova\*, University of Utah, *Simulating warning triggers in environmental hazards.*

**1598. From sustainable to critical transport studies: a global perspective IV**

*Room:* New Hampshire, Marriott, Fifth Floor (Paper Session)

ORGANIZER(S): Wojciech Koblowski, Vrije Universiteit Brussel

CHAIR(S): Kobe Boussauw, Ghent University - Geography Department

**2:40** Zylar Wang\*, University of Toronto, *Renouncing the rational economy? Planning and constructing railways in China, 1870-1970.*

**3:00** Matthieu Schorung, PhD Candidate\*, Université Paris-Est, *The "Obamarail": the emergence of a new railroad geography in the United States?.*

**3:20** Christoph Fink\*, University of Vienna; Olga Povoroznyuk, University of Vienna; Gertrude Saxinger, University

of Vienna; Gertraud Illmeier, University of Vienna, *Do Local Communities Benefit from State-built Transport Infrastructure? Contested Perceptions and Uses of the Baikal-Amur Mainline.*

**3:40** Jasmine Eftekhari, MSc Candidate\*, Concordia University, *The Effects of Urban Rail Rapid Transit Station Attributes on Housing Prices in Toronto and Vancouver.*

**1599. Cultures of Navigation: The Lost Art of Finding Our Way (Sponsored by Environmental Perception and Behavioral Geography Specialty Group)**

*Room:* Vermont, Marriott, Fifth Floor (Panel Session)

ORGANIZER(S): Karl C. Broom, Leidos

CHAIR(S): Karl C. Broom, Leidos

Introducer: Karl C. Broom

Discussant(s): Karl C. Broom, Leidos

Panelists: John Huth, Harvard University

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ORGANIZER(S): Chuan Liao, University of Michigan; Arun Agrawal, University of Michigan

CHAIR(S): Arun Agrawal, University of Michigan

**4:40** Arun Agrawal\*, University of Michigan, *Learning across conceptual models of coupled natural and human systems.***5:00** Michael Eggen\*, University of Wisconsin - Madison; Ben Zaitchik, Johns Hopkins University; Belay Simane, Addis Ababa University; Guillermo Baigorria, University of Nebraska - Lincoln; Amit Timilsina, University of Nebraska - Lincoln; Jeremy Foltz, University of Wisconsin - Madison; Dawit Kebede, University of Wisconsin - Madison; Mutlu Ozdogan, University of Wisconsin - Madison, *Performance of Highland Ethiopian Cropping Strategies against Climate Change.***5:20** Stephen Perz\*, University of Florida; Gregory Kiker, University of Florida; Rafael Munoz-Carpena, University of Florida, *Theoretical Debates and Modeling Platforms for Evaluation of Complex Social-Ecological Systems: Multiple Instantiations and Global Sensitivity and Uncertainty Analysis for Inferences and Dialogue with Theory.***5:40** T. Trevor Caughlin\*, University of Florida; Sarah J. Graves, University of Florida; Gregory P. Asner, Stanford University; Stephanie A. Bohlman, University of Florida, *Disentangling Human and Natural Drivers of Tree cover in Agricultural Landscapes.***6:00** Daniel C. Miller\*, University of Illinois; Pushpendra Rana, University of Illinois, *A framework for analyzing the long-term social-ecological impacts of forest conservation and management.***1602. UAV/Drone Application****Room:** Room 102, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Matthew E. Ramsپott, Frostburg State University

**4:40** Qinghua Guo\*, University of California at Merced; Yanjun Su, University of California, Merced; Tianyu Hu, Institute of Botany, Chinese Academy of Sciences; Yumei Li, Institute of Botany, Chinese Academy of Sciences; Qin Ma, University of California, Merced, *Mapping Global Forest Structures Parameters from Multisource Remote Sensing Data.***5:00** Yi Peng\*, Wuhan University; Shenghui Fang, Wuhan University; Yan Gong, Wuhan University; Ning Shu, Wuhan University; Kan Liu, Wuhan Institute of Physics and Mathematics of Chinese Academy of Sciences; Wenchao Tang, Wuhan University; Ruhui Chai, Wuhan University; Ying Zhou, Wuhan University; Yi Zhang, Wuhan University; Wen Zhang, Wuhan University, *Remote Estimation of Vegetation Fraction and Flower Fraction in Oilseed Rape with Unmanned Aerial Vehicle Data.***5:20** Jeremy Aber\*, Middle Tennessee State University; Timothy Newell, Middle Tennessee State University; Nicholas Dennis, Middle Tennessee State University, *The Challenges of Working with Kite Aerial Photography Imagery.***5:40** James T. Dietrich, Ph.D.\*, Dartmouth College, *Bathymetric Structure from Motion: Extracting shallow stream bathymetry from multi-view stereo photogrammetry.***6:00** Matthew E. Ramsپott, Ph.D.\*, Frostburg State University; Phillip P. Allen, Ph.D., Frostburg State University, *Learning to Fly: Making Use of Unmanned Aircraft Systems (UAS) in Geomorphological Research and in Geography Curriculum.***1603. Co-Located Clusters and Cluster Networks: From Retro to Avant-Garde 2****Room:** Room 103, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Harald Bathelt, University of Toronto; Ren Lu, Jiangxi University of Finance and Economics

CHAIR(S): Sebastian Henn, University of Jena

**4:40** Mercedes Delgado\*, MIT Sloan, *The Convergent or Divergent Fortunes of Twinned Cities.***5:00** Ren Lu\*, Jiangxi University of Finance and Economics; Torger Reve, BI-Norwegian Business School, *Effect of Co-Located Clusters and Cluster Life Phases on Total Factor Productivity: An Empirical Study of Chinese Firms.***5:20** Harald Bathelt\*, University of Toronto; Jingyuan Zhao, University of Toronto, *Biomedical Innovation Networks in Beijing: An Investigation into Multiple Co-Located Clusters in Mega-City Regions.***5:40** Giulio Buciuni\*, Trinity College Dublin; Gary Pisano, Harvard University, *Knowledge Integrators and the Survival of Manufacturing Clusters.*

Discussant(s): Sebastian Henn, University of Jena

**1604. Ecosystem Services for Poverty Alleviation: A Critical Engagement****Room:** Room 104, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Esteve Corbera, Institute of Environmental Science and Technology; Dan Brockington, University of Manchester

CHAIR(S): Esteve Corbera, Institute of Environmental Science and Technology

**4:40** Caroline Howe, University of Sheffield; Daniel Brockington, University of Sheffield; William M. Adams, University of Cambridge; Esteve Corbera\*, Institut de Ciències Ambientals, Universitat Autònoma de Barcelona; Bhaskar Vira, University of Cambridge, *Distinct positions underpin ecosystem services for poverty alleviation.***5:00** Caroline Howe, University of Sheffield; William M. Adams, University of Cambridge; Dan Brockington\*, University of Sheffield; Esteve Corbera, Universitat Autònoma de Barcelona; Bhaskar Vira, University of Cambridge, *Understanding the faultlines in the debates about ecosystem services poverty alleviation.***5:20** Esteve Corbera, Institut de Ciències Ambientals, Universitat Autònoma de Barcelona; Sara Maestre Andrés\*, Institut de Ciències Ambientals, Universitat Autònoma de Barcelona; Caroline Howe, University of Sheffield; Daniel Brockington, University of Sheffield; William M. Adams, University of Cambridge; Bhaskar Vira, University of Cambridge, *Behind the scene: Patterns of knowledge generation in ecosystem services for poverty alleviation research.***5:40** Mario Hernández Trejo\*, The University of Manchester, *Ceteris paribus, isolation and abstraction for tackling deforestation and poverty in Mexico.***6:00** Benjamin Neimark, PhD\*, Lancaster University; Christine Hicks, PhD, Lancaster University, *Rise of the Eco-precariat: Theorizing Labor & Work in an Environmental Service-Based Economy.***1605. Global Carceral Geographies IV: Carceral Intersections (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme, Political Geography Specialty Group, Ethics, Justice, and Human Rights Specialty Group, Sexuality and Space Specialty Group)****Room:** Room 105, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Austin Kocher, The Ohio State University, Department of Geography; Dominique Moran, University of Birmingham; Nick Gill, Exeter University

CHAIR(S): Steve Herbert, University of Washington

**4:40** Emma Marshall\*, University of Exeter, *Investigating*

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*the possibilities of online activism as a challenge to carceral space.*

**5:00** Jesse Proudfoot\*, Durham University, *Scaling Addiction.*

**5:20** Odilka Sabrina Santiago\*, Binghamton University; Odilka Sabrina Santiago, PhD Student, SUNY Binghamton University; odilka Sabrina santiago, PhD, SUNY Binghamton University, *Predictive Policing and the Transformation of Carceral Space: Promotes, rather than, Prevents Violence.*

**5:40** Christophe Mincke\*, National Institute for Forensic Science and Criminology, *From confinement to monitoring. The carceral as management of the transitory.*

Discussant(s): Steve Herbert, University of Washington

**1606. (De)Stigmatising Sexscapes: Politics, Policy and Performance I: Porn, Pleasure & Performance (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme, Sexuality and Space Specialty Group)**

*Room:* Room 107, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Paul J. Maginn, University of Western Australia; Emily Cooper, University of Central Lancashire; Erin Sanders-McDonagh, Middlesex University

CHAIR(S): Paul J. Maginn, University of Western Australia

**4:40** Gemma Commene, Dr\*, Birmingham City University, *Kinktrepreneurship and social media: debates, rights and female subjectivity.*

**5:05** Joanne Bowring\*, Liverpool John Moores University, *Stigma in the UK Adult Film Industry.*

**5:30** Jennifer Heineman, PhD\*, University of Nebraska at Omaha, *Performing the Whore, Performing the Academic.*

**5:55** Emily Meyer, Esq.\*, University of Cincinnati, *The Cam Model: Kinship, Community, and Intimacy.*

**1607. Reflections on the Carnegie and CODESRIA African Diaspora Fellowship Initiatives (Sponsored by Africa Specialty Group)**

*Room:* Room 108, Hynes, Plaza Level (Panel Session)

ORGANIZER(S): Joseph Terzungwe Zume, Shippensburg University; Aondover Tarhule, University of Oklahoma Department of Geography and Environmental Sustainability

CHAIR(S): Aondover Tarhule, University of Oklahoma Department of Geography and Environmental Sustainability

Discussant(s): William G. Moseley, Macalester College; Amber Murrey, Clark University

Panelists: Samuel Adu-Prah, Sam Houston State University; Aondover Tarhule, University of Oklahoma Department of Geography and Environmental Sustainability; Joseph Terzungwe Zume, Shippensburg University; Henry Bulley, CUNY BMCC

**1608. Migration and Children (Sponsored by Latin America Specialty Group, Rural Geography Specialty Group, Population Specialty Group)**

*Room:* Room 109, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Jason Davis, University of North Carolina - Chapel Hill; Noli Brazil

CHAIR(S): Jason Davis, University of North Carolina - Chapel Hill

**4:40** Maria Barbero\*, Florida International University, *The Age of Migration Control: Immigrant Youth and Governmentality in the Americas.*

**5:00** Johanna C. Jokinen\*, Uppsala University, *Exploring impacts of migration and remittances on left-behind family members of transnational households in Cochabamba, Bolivia.*

**5:20** Jason Davis\*, University of North Carolina - Chapel Hill, *South-South Migration and School Enrollment: The Case of Nicaragua to Costa Rica Labor Migration.*

**5:40** Marit Ursin\*, Norwegian University of Technology and Science, *In Search of Safety: Mundane Forms of Migration Among Children and Youth Involved in Drug Trafficking in Urban Brazil.*

Discussant(s): Noli Brazil

**1609. Dendrochronology III: Dendroecology**

*Room:* Room 110, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Lauren Stachowiak, University of Tennessee; Aquila Flower, Western Washington University

CHAIR(S): Aquila Flower, Western Washington University

**4:40** Shelly A. Rayback, Ph.D.\*, University of Vermont; Paul G. Schaberg, United States Forest Service; Jennifer Pontius, United States Forest Service, University of Vermont; James Duncan, University of Vermont; Christopher Hansen, United States Forest Service; Paula Murakami, United States Forest Service; Emma Tait, University of Vermont; Benjamin Engel, University of Vermont; Joshua Halman, Department of Forest, Parks and Recreation, State of Vermont; Gary Hawley, University of Vermont; Alexandra Kosiba, University of Vermont; Rebecca Stern, University of Vermont, *A Dendroecological Database for Northeastern North America and Beyond.*

**5:00** Gregory M King\*, Queen's University; Ryan K Danby, Queen's University, *Patch Dynamics within the Forest-Tundra Ecotone: A Dendroecological Investigation.*

**5:20** Alex Dye\*, West Virginia University; M. Ross Alexander, University of Arizona; Eungul Lee, West Virginia University; Neil Pederson, Harvard Forest; Amy Hessel, West Virginia University, *Large trees are primarily driving stand biomass accumulation.*

**5:40** Aquila Flower, PhD\*, Western Washington University, *Synchrony of Western Spruce Budworm Outbreaks Across Western North America Over the Last Three Centuries.*

Discussant(s): Lauren Stachowiak, University of Tennessee

**1610. Becoming a Biogeographer: Advice from a panel of experts (Sponsored by AAG Careers and Professional Development Theme, Biogeography Specialty Group)**

*Room:* Room 111, Hynes, Plaza Level (Panel Session)

ORGANIZER(S): Thomas Patterson, UNC-Greensboro

CHAIR(S): Thomas Patterson, UNC-Greensboro

Panelists: Monika P. Calef, Soka University of America; David F. Porinchu, University of Georgia; Christy E. Briles, University of Colorado Denver; Christopher A. Underwood, University of Wisconsin-Platteville; Shiguo Jiang, SUNY - Albany; Arvind Aniel Rombawa Bhuta, USDA - US Forest Service - Southern Region; Lisa M. Kennedy, Virginia Tech

**1611. IJURR Lecture: Rinaldo Walcott on Black Movements: Lampedusa, Black Lives Matter and Reorienting Freedom (Sponsored by Wiley Publishing)**

*Room:* Room 200, Hynes, Second Level (Paper Session)

ORGANIZER(S): Ananya Roy, University of California, Los Angeles

CHAIR(S): Ananya Roy, University of California, Los Angeles

**4:40** Rinaldo Walcott, Dr.\*, University of Toronto, *Black Movements: Lampedusa, Black Lives Matter and Reorienting Freedom.*

**1612. GeoMentors: Assisting in the Advancement of Geographic Education (Sponsored by AAG Careers and Professional Development Theme, Geography Education Specialty Group)**

*Room:* Room 201, Hynes, Second Level (Panel Session)

ORGANIZER(S): Jonathan Wessell, Grand Valley State University; Candice Luebbering, American Association of Geographers

CHAIR(S): Jonathan Wessell, Grand Valley State University  
Introducer: Candice Luebbering



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Discussant(s): Jonathan Wessell, Grand Valley State University; Donald Lafreniere, Michigan Tech University; Jeffrey W. Lash, University of Houston Clear Lake; Jacqueline A. Housel, Sinclair College

Panelists: Yichun Xie, Eastern Michigan University; James Kernan, SUNY Geneseo

**1613. Spatial Clustering, Spillovers, and Co-evolution**

Room: Room 202, Hynes, Second Level (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Mizuki Kawabata

**4:40** Akito KATO\*, The University of Tokyo, *The Change of Inter-firm Relationship and SMEs management in the Large Industrial Agglomerations: Case Study of Ota Ward, Tokyo.*

**5:00** KEWEN LV\*, The Research Center of Yellow River Civilization and Sustainable Development, Henan University, China; Jing Wang, Henan University, Kaifeng, China; Changhong Miao, Henan University, Kaifeng, China; Huan Ding, Henan University, Kaifeng, China, *The Research on Formation and Development Mechanism of Local Industrial Cluster Based on Co-evolution Theory.*

**5:20** Yuko Akune\*, Reitaku University/George Mason University, *The Factors that Influence Productivity of Food Manufacturing in Japan: Past Agglomeration and Current Research and Development.*

**5:40** Mizuki Kawabata\*, Keio University; Yukiko Abe, Hokkaido University, *Spatial dimensions of intra-metropolitan disparities in commuting time and female labor force participation.*

**1614. Barriers and Opportunities for women in the Geography STEM subdisciplines (Sponsored by Geographic Information Science and Systems Specialty Group, AAG Careers and Professional Development Theme, Geographic Perspectives on Women Specialty Group, Climate Specialty Group)**

Room: Room 203, Hynes, Second Level (Panel Session)

ORGANIZER(S): Mandy Munro-Stasiuk, Kent State University; Dorris Scott, University of Georgia

CHAIR(S): Mandy Munro-Stasiuk, Kent State University

Discussant(s): Mandy Munro-Stasiuk, Kent State University; Dorris Scott, University of Georgia

Panelists: Andrea Presotto, Stockton University; Jill S. M. Coleman, Ball State University; Chandana Mitra, Auburn University; Lesley-Ann Dupigny-Giroux, University of Vermont; Saskia L. Van De Gevel, Appalachian State University

**1615. Applied Geography in Academia: Content, Curricula, Status, Methods, and Future (Sponsored by AAG Careers and Professional Development Theme, Applied Geography Specialty Group, Geography Education Specialty Group)**

Room: Room 204, Hynes, Second Level (Paper Session)

ORGANIZER(S): Michael N. DeMers, New Mexico State University

CHAIR(S): Christopher Labosier, Longwood University

**4:40** Christopher Labosier, Ph.D.\*, Longwood University, *The interdisciplinary nature of applied geography: Keys to addressing weather and climate hazards.*

**5:00** Michael N. DeMers\*, New Mexico State University, *Exploring Abandoned GIS Research to Augment Applied Geography Education.*

**5:20** Lola Gulyamova\*, *On Development of the Curriculum Design for Upper- and Advanced-level GIS Classes for Masters on Spatial Economy in Uzbekistan.*

**5:40** Carol Lynn Campbell, Associate Professor\*, New Mexico State University; Robert P. Sabie, Graduate Student, New Mexico State University; Suzanne Montes, Graduate student, New Mexico State University, *Where is away: mapping recycling bins on campus.*

**6:00** David J. Cowen, Ph.D.\*, University Of South Carolina,

*National Assessment of GIS&T Enrollment and Trends in Higher Education.*

**1616. Geography, War, and the Human Sciences 2 (Sponsored by Political Geography Specialty Group, History of Geography Specialty Group, Historical Geography Specialty Group)**

Room: Room 205, Hynes, Second Level (Paper Session)

ORGANIZER(S): Matthew Farish, University of Toronto; Elliott Callan Child, University of British Columbia; Trevor J. Barnes, University Of British Columbia

CHAIR(S): Matthew W. Wilson, University of Kentucky

**4:40** Boris Michel\*, Universität Erlangen-Nürnberg, *"To pursue geography shall mean to enable the continuation of politics with peaceful means". How geography in Germany after 1945 tried to demilitarize itself.*

**5:00** Elliott Child, University of British Columbia; Trevor J. Barnes\*, University Of British Columbia, *American Imperial Expansion and Area Studies without Geography (1945-1970).*

**5:20** Killian McCormack\*, University of Toronto, *US Army Medical Research Unit-Kenya and the geopolitics of infectious disease research.*

Discussant(s): Scott Kirsch, UNC-Chapel Hill; Alison Howell

**1617. 50 Years of Clark Radical Geography II (Sponsored by Socialist and Critical Geography Specialty Group, Development Geographies Specialty Group)**

Room: Room 206, Hynes, Second Level (Panel Session)

ORGANIZER(S): Waqar Ahmed, University of North Texas

CHAIR(S): Waqar Ahmed, University of North Texas

Discussant(s): Richard Peet, Clark University

Panelists: Thomas H. Estabrook, University of Massachusetts-Lowell; Ann Oberhauser, Iowa State University; Sagie Narsiah, University of KwaZulu-Natal; Ipsita Chatterjee, University of North Texas; Philip E. Steinberg, Durham University; John Lauermann, Texas A&M University; Philip Okeefe, Northumbria University; Myrna Breitbart, Hampshire College

**1619. Doing Critical Geography II: Challenges and Possibilities**

Room: Room 210, Hynes, Second Level (Panel Session)

ORGANIZER(S): Sarah E.L. Wakefield, University Of Toronto; Madelaine Cahuas, University of Toronto

CHAIR(S): Sarah E.L. Wakefield, University Of Toronto

Panelists: Madelaine Cahuas, University of Toronto; Lauren Kepkiewicz, University of Toronto; Naya Armendarez Jones, Get Rooted Consulting, LLC; Vanessa Sloan Morgan, Queen's University; Kristin Reynolds, Food. Scholarship. Justice.; Sarah Elizabeth Nelson, University of Toronto

**1621. Annual CAPE "Robert McC Netting" Plenary Lecture, by Richard Schroeder (Sponsored by Cultural and Political Ecology Specialty Group)**

Room: Room 301, Hynes, Third Level (Paper Session)

ORGANIZER(S): Jennifer L. Rice, University of Georgia

CHAIR(S): Jennifer L. Rice, University of Georgia

**4:40** Richard A. Schroeder\*, Rutgers University, *Greening the Hunt.*

**1622. 2017 AAG Physical Geography Symposium Keynote Lecture: Human Environmental Interactions and the Legacy of Karl Butzer in the Physical Geography and Beyond I (Sponsored by Paleoenvironmental Change Specialty Group, Geographies of Bread and Water in the 21st Century Featured Theme, Biogeography Specialty Group, Geomorphology Specialty Group) - Featured Session**

Room: Room 302, Hynes, Third Level (Paper Session)

Organizers: **Timothy Beach**, University of Texas at Austin; **Tripti Bhattacharya**; **Carlos E. Cordova**, Oklahoma State University

Chair: **Timothy Beach**, University of Texas at Austin

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Introduction: **Timothy Beach**, University of Texas at Austin  
Speakers:

**Sheryl Luzzadder-Beach**, University of Texas-Austin  
**Timothy Beach**, University of Texas at Austin, *The Legacy of Karl Butzer in Physical Geography and Beyond*.

**C Neil Roberts**, University of Plymouth, *Good, bad or ugly? Human transformation of the Mediterranean world*.

**B. L. Turner II**, Arizona State University, *Reflections on Karl W. Butzer's Cultural Ecology*.

The long-term interplay of humans and the physical environment is one of Physical Geography's oldest and richest traditions. The idea has evolved into many directions from Alexander von Humboldt to 2016 AAG Physical Geography Symposium on the Anthropocene. One of the most important contributors to this tradition of studying human interactions with the environment was Prof. Karl W. Butzer, who in many senses founded the field and coined the term geoarchaeology. Butzer had among the profession's most decorated careers in our discipline's history.

## 1623. Spatial Narrative in the GeoHumanities: Aesthetics, Methods, and Theory (Sponsored by Cultural Geography Specialty Group, Communication Geography Specialty Group)

Room: Room 303, Hynes, Third Level (Paper Session)

ORGANIZER(S): Nicholas Bauch, University of Oklahoma; Kenneth E. Foote, University of Connecticut

CHAIR(S): Kenneth E. Foote, University of Connecticut

4:40 Ian Caine\*, University of Texas At San Antonio; Rebecca Walter, PhD, University of Texas at San Antonio; Jerry Gonzalez, PhD, University of Texas at San Antonio, *San Antonio 360°: A Digital Chronology of Suburban Expansion for San Antonio, Texas*.

5:00 Meghan Cope\*, University of Vermont, *"A Desirable Child": Using Spatial Narrative to Trace Historical Childhoods and Place*.

5:20 Nicholas Bauch\*, University of Oklahoma, *Data Born-Mapped: Spatial Epistemology and the Making of New Narratives*.

5:40 Kenneth E. Foote\*, University of Connecticut, *Narrating Space / Spatializing Narrative: New Approaches to Narrative Cartography*.

6:00 Maoz Azaryahu, Prof.\*, Department of Geography and Environmental Studies, University of Haifa, *Cartographic history-telling: the case of commemorative street names*.

## 1624. Participatory Spatial Methodologies for Planning, Action Research and Informed Practice

Room: Room 304, Hynes, Third Level (Paper Session)

ORGANIZER(S): Jacob Campbell, The Field Museum

CHAIR(S): Jacob Campbell, The Field Museum

4:40 Mark J. Bouman\*, The Field Museum; Erika Hasle\*, The Field Museum, *Opportunities and challenges of using participatory spatial methodologies in conservation planning*.

5:00 Jacob Campbell\*, Field Museum, *Expanding Urban Green Space Access Through Participatory Action Research on Chicago's South Lakefront*.

5:20 Ashwin Ravikumar, Ph.D\*, The Field Museum, *Who Is Really Empowered By Participatory Mapping? Balancing State Property Rights Regimes with Traditional Land Use in the Peruvian Amazon*.

5:40 David Seibert\*, Borderlands Restoration, *A Geographic Poetics of Placed-and-Found Objects in the US-Mexico Borderlands*.

Discussant(s): Daniel R. Block, Chicago State University

## 1625. Author Meets Critics: Chris Sneddon, "Concrete Revolution"

Room: Room 305, Hynes, Third Level (Panel Session)

ORGANIZER(S): Benjamin Forest, McGill University

CHAIR(S): Benjamin Forest, McGill University

Introducer: Benjamin Forest

Discussant(s): Chris Sneddon, Dartmouth College

Panelists: Shannon O'Lear, University of Kansas; Kathryn Furlong, Université De Montréal; Majed Saeed Akhter, Indiana University; Benjamin Forest, McGill University

## 1626. More than lines on a map? Rethinking neighborhoods and regions (Sponsored by Urban Geography Specialty Group)

Room: Room 306, Hynes, Third Level (Paper Session)

ORGANIZER(S): Taylor Shelton, University of Kentucky; Ate Poorthuis, Singapore University of Technology and Design

CHAIR(S): Ate Poorthuis, Singapore University of Technology and Design

4:40 Daniel Arribas-Bel, PhD\*, University of Liverpool, *An Updatable index of Neighborhood Attractiveness*.

5:00 Christopher S. Fowler\*, Pennsylvania State University, *It's not a neighborhood, but how bad is the Census Tract*.

5:20 Taylor Shelton\*, University of Kentucky; Ate Poorthuis, Singapore University of Technology and Design, *The nature of neighborhoods: using big data to rethink the geographies of Atlanta's neighborhood planning unit system*.

5:40 Katherine Stansfeld\*, Royal Holloway, *The limits of place? Boundaries and multiplicity in north-east London*.

6:00 Garrett Dash Nelson, PhD\*, Dartmouth College, *Neighborhood, Township, Province: Dreams of Spatial Togetherness in Progressive Era American Thought*.

## 1628. New Natures and Novel Landscapes III: Novel Systems in Urban Environments (Sponsored by Animal Geography Specialty Group)

Room: Room 308, Hynes, Third Level (Panel Session)

ORGANIZER(S): John Patrick Connors, Boston University; Sarah Dooling, the university of texas; Anne Short Gianotti, Boston University

CHAIR(S): John Patrick Connors, Boston University

Panelists: Jessica K. Graybill, Colgate University; Sarah Dooling, the university of texas; Jamie Vanucchi; Carol Atkinson-Palombo, University of Connecticut; Gregory Simon, University of Colorado Denver

## 1629. R. S. Tarr Student Poster Competition (Sponsored by Cryosphere Specialty Group)

Room: Room 309, Hynes, Third Level (Illustrated Paper Session)

ORGANIZER(S): Jeffrey Adam VanLooy, University of North Dakota

CHAIR(S): Jeffrey Adam VanLooy, University of North Dakota

4:40 Da Huo\*, Texas A&M University, Center for GEOSAT; Michael P. Bishop, Texas A&M University, Center for GEOSAT; Brennan W. Young, Texas A&M University, Center for GEOSAT, *Geomorphometric Characterization of Debris Covered Glaciers in the Karakoram, Himalaya*.

4:50 Shubhechhha Thapa\*, Department of Geography, Texas A&M University, College Station; Andrew Klein, Department of Geography, Texas A&M University, College Station, *Comparison and validation of MODIS and VIIRS snow products for the 2015-2016 snow year over Midwestern United States*.

5:00 Sasha Z. Leidman\*, Rutgers University; Asa K. Rennermalm, PhD, Rutgers, The State Univ of NJ, *Shadows on Greenland: The Effect of Local Ice Topography on Albedo*.

5:10 Paepin Goff\*, Texas State University - San Marcos; David R. Butler, Texas State University - San Marcos, *Rock glaciers as water towers in the Wind River, Gros Ventre, and Grand Teton ranges: Using remotely sensed imagery to investigate terminal meltwater features with implications for biota and human*



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populations.

- 5:20** Analyse Gaspich\*, Kutztown University; Dr. Michael Davis, Kutztown University, *Variability in Pennsylvania Winter Snow totals, 1980-2010*.
- 5:30** Yiran Li\*, Texas A&M; Andrew Klein, Texas A&M University, *Characterization of sea ice and ice shelf surface roughness and its effects on bi-directional reflectance*.
- 5:40** Kelsey Nyland\*, Michigan State University; Clayton Queen, Michigan State University; Frederick Nelson, PhD, Michigan State University, *New Evidence Supports a Century-old Hypothesis: Cryoplanation Terraces as Climatically Controlled Landforms*.
- 5:50** Adrienne G. Shumlich\*, University of Delaware; Andres Meglioli, Dr., Mountain Pass Environmental LLC, Denver Colorado; Coty Cribb, University of Delaware; Michael A O'Neal, Dr., University of Delaware, *Measuring the Topography and Motion of the El Altar Rock Glacier in the Cordillera Frontal, Argentina*.
- 6:00** Christopher Pessell\*, Nathan Amador, Ohio Wesleyan University, *Seasonal Lakes: Modeling Meltwater on the Greenland Ice Sheet*.

**1630. [JUS Annual Lecture] Robert Hassink: Moving beyond Anglo-American economic geography**

**Room:** Room 310, Hynes, Third Level (Panel Session)  
 ORGANIZER(S): Jung Won Sonn, University College London  
 CHAIR(S): Jung Won Sonn, University College London  
 Introducer: Jung Won Sonn  
 Panelists: Robert Hassink, Dept. of Geography, University of Kiel; Huiwen Gong, Department of Geography, Kiel University; Michiel Van Meeteren, Vrije Universiteit Brussel; Canfei He, Peking University; Myounggu Kang, University of Seoul

**1631. Urban Politics and Electoral Geographies**

**Room:** Room 311, Hynes, Third Level (Paper Session)  
 ORGANIZER(S): Program Committee  
 CHAIR(S): Andrei Zinovev, Saint-Petersburg State University  
**4:40** Ina Elias De Castro, PhD\*, Universidade Federal Do Rio De Janeiro; Guilherme Felix Machado Filho, Msc, Universidade Federal do Rio de Janeiro, *The empowerment of the streets. Political spaces and the impeachment of a President.*

**5:00** Soyoung Lee\*, Seoul National University; Daeheon Cho, Catholic Kwandong University, *Analysis on the changing spatial patterns of National Assembly Election Results: Focusing on 19th and 20th elections in South Korea.*

**5:20** Kalyn M Rossiter, Ph.D., Ohio Northern University; David W Wong, Ph.D., George Mason University, *Does Drastically Redrawing Congressional Districts Mean New Blood In Congress?*

**5:40** Jernej Tiran\*, Research Centre of Slovenian Academy of Sciences and Arts, *Growing Urban-Rural Political Divide: Theoretical and Methodological Considerations.*

**6:00** Andrei Zinovev\*, Saint-Petersburg State University, *City - Region - Lithuania: Dynamics of Electoral Behaviour at Parliamentary Elections.*

**1632. Sports Geography (Sponsored by Recreation, Tourism, and Sport Specialty Group)**

**Room:** Room 312, Hynes, Third Level (Paper Session)  
 ORGANIZER(S): Steven P. Ericson, University of Alabama  
 CHAIR(S): Steven P. Ericson, University of Alabama  
**4:40** Janine Maier\*, University of Passau, *"Geography as a field of action"- A kick for regional development through the diffusion of Women's Soccer.*

**5:00** Eddie Bairam\*, California State University, Long Beach, *The Origins and Spatial Diffusion of Female Professional Soccer Players in the United States 1991-2015:*

*Geographical, cultural and social perspectives.*

- 5:20** William Flynn, Ph.D.\*, Independent Scholar; Ron Carino, Independent Scholar; Susan Carino, Independent Scholar, *Geography of Distance Running Race Participation.*
- 5:40** James WJ Robinson\*, History Department Northeastern University, *Neighborhoods and Big Sports Capitalism, Urban Sports, and Social Change (For Better or For Worse).*
- 6:00** Steven P. Ericson\*, University of Alabama, *Minor League Baseball, Craft Beer, and the Nexus of Place.*

**1633. Spatial Decision Support Across Disciplines: Scholarship, Pedagogy and Practice (Sponsored by Geographic Information Science and Systems Specialty Group)**

**Room:** Room 313, Hynes, Third Level (Panel Session)  
 ORGANIZER(S): Jeffrey D. Hamerlinck, University of Wyoming; Piotr Jankowski, San Diego State University  
 CHAIR(S): Jeffrey D. Hamerlinck, University of Wyoming  
 Panelists: Rob D. Feick, University of Waterloo; Piotr Jankowski, San Diego State University; Arika Ligmann-Zielinska, Michigan State University; William McClintock, University of California Santa Barbara

**1634. New moral natures in tourism 2 (Sponsored by Recreation, Tourism, and Sport Specialty Group)**

**Room:** Suite 300, Hynes, Third Level (Paper Session)  
 ORGANIZER(S): Bryan SR Grimwood, University of Waterloo; Lisa Cooke, Thompson Rivers University; Kellee Caton, Thompson Rivers University  
 CHAIR(S): Lisa Cooke, Thompson Rivers University  
**4:40** Marianna Strzelecka\*, Linnaeus University; Gwen Nisbett, PhD, University of North Texas; Per Pettersson Löfquist, Linnaeus University, *What is the nature of conservation volunteerism?*

**5:00** Adrian Stephen Franklin, PhD\*, University of Tasmania, *Enacting Feral Tourism.*

**5:20** Alessandra Gabrielle Shea\*, University of Hawaii - Manoa, *Unchartered Waters: the Political Ecology of Apocalyptic Tourism and Conservation in Cuba.*

**5:40** Cadi Y. Fung\*, Michigan State University, *Provisioning in the Animal Tourism Industry: Through the Lens of the Amazon River Dolphin.*

Discussant(s): Kellee Caton, Thompson Rivers University

**1638. Water Contamination (Sponsored by Water Resources Specialty Group)**

**Room:** Independence East, Sheraton, Second Floor (Paper Session)  
 ORGANIZER(S): RDK Herman, National Museum of the American Indian  
 CHAIR(S): Danielle L. Lewis  
**4:40** Tess Rivenbark; Barnali Dixon\*, University Of South Florida; Dale Griffin, Dr., USGS, *Analysis of contamination from septic systems in coastal water of Florida using GIS data.*

**5:00** Molly Klinepeter\*, University of South Florida; Kamal Alsharif, University of South Florida, *Assessment of Constructed Wetland Treatment Cells: Removal of Excess Nutrients from Municipal Wastewater in Lakeland, Florida.*

**5:20** Charles W. Martin\*, Kansas State University, *Trace metal concentrations along tributary streams draining historically mined areas, Lahn and Dill River basins, central Germany.*

**5:40** Emily Powell, Student, Jacksonville State University; Larry Joe Morgan, PhD\*, Jacksonville State University, *Tracking Industrial Metals and Contamination in the Chattahoochee River: Potential Point and Non-Point Source Pollution to the Apalachicola Blueway.*

**6:00** Danielle L. Lewis\*, Chatham, *Silent Seas: Exploration of Land Usage along Mississippi River and the Correlation to Growing Hypoxic Areas in the Gulf of Mexico.*

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## 1639. Urban Services: Interactions, Mobilities, Engagements

Room: *Independence West, Sheraton, Second Floor* (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Nick Page, University of South Wales

4:40 Jiri Nemeškal\*, Charles University, Faculty of Science,  
*Non-residential suburbanization in Prague metropolitan area.*

5:00 Mariane Thebert\*, Université Paris Est Marne la Vallée;  
Patricia Sajous, Université du Havre, *Daily mobility and periurban way of life around Paris: role of ICT.*

5:20 David Le Bras\*, Université de Grenoble, *New economic interactions between metropolitan and regional authorities in France.*

5:40 Chang Gyu Choi, Ph.D\*, Hanyang University; Ha Na Im, Ph.D, The Seoul Institute, *The Link between the Entropy-Based Land Use Mix Index and Pedestrian Volume: Developing a Weighted Land Use Mix Index to Estimate Street Vitality.*

6:00 Nicholas Page, PhD\*, University of South Wales; Gary Higgs, PhD, University of South Wales; Mitchell Langford, PhD, University of South Wales; Scott Orford, PhD, Cardiff University, *Community-level Social Capital and Public Service Provision: A Position Paper and Research Agenda.*

## 1640. Critical Geographies of Agricultural Policy: Igniting Political Potential with Community-Led Research (Sponsored by Cultural and Political Ecology Specialty Group, Indigenous Peoples Specialty Group, Geographies of Food and Agriculture Specialty Group)

Room: *Liberty B, Sheraton, Second Floor* (Panel Session)

ORGANIZER(S): Garrett Graddy-Lovelace, American University School of International Service

CHAIR(S): Garrett Graddy-Lovelace, American University School of International Service

Introducer: Maywa Montenegro

Discussant(s): Michael Jahi Chappell, Coventry University

Panelists: Annette Desmarais, University of Manitoba; Saulo Araujo, WhyHunger and US Food Sovereignty Alliance; Antonio Roman-Alcalá; Maria Moreira, World Farmers, Rural Coalition

## 1641. Author-meets-critics: Jessica Dempsey's Enterprising Nature: Economics, Markets, and Finance in Global Biodiversity Politics (Sponsored by Cultural and Political Ecology Specialty Group)

Room: *Liberty C, Sheraton, Second Floor* (Panel Session)

ORGANIZER(S): Rosemary-Claire Collard, Concordia University; Geoff Mann, Simon Fraser University

CHAIR(S): Geoff Mann, Simon Fraser University

Panelists: Jacque (Jody) L. Emel, Clark University; Joshua Barkan, University of Georgia; James McCarthy, Clark University; Julie Guthman, Univ of California Santa Cruz; Jesse Goldstein, Virginia Commonwealth University; Jessica Dempsey, University of Victoria

## 1642. Economic Geography V - Intersections, Relations, Routines, and Collaborations in Innovation Processes (Sponsored by Economic Geography Specialty Group)

Room: *Back Bay Ballroom A, Sheraton, Second Floor* (Paper Session)

ORGANIZER(S): Dieter Franz Kogler, University College Dublin; Peter Kedron, Oklahoma State University; Pierre-Alexandre Bolland, Utrecht University

CHAIR(S): Jennifer Clark, Georgia Institute of Technology

4:40 Richard Shearmur\*, McGill University; David Doloreux, HEC Montréal, *The nature of interactions between KIBS innovators and KIBS providers during the innovation process: does it alter depending on geographic context?*

5:00 Christian R Østergaard, Department of Business and Management, Aalborg University; Ina Drejer, Department of Business and Management, Aalborg

University, *The Role of Mobility and Employee-Driven Relations for University-Industry Collaboration on Innovation.*

5:20 Nina Hjertvikrem\*, University of Stavanger, *Research Networks and Regional Differences in Innovation Activities.*

5:40 Ole Bergesen, PhD Research Fellow\*, University of Stavanger; Ragnar Tveterås, Professor, University of Stavanger, *From Knowledge to Innovation: Firms' Internal Skills, Collaboration Choices and Innovative Activity.*

6:00 Lukas Ernst Vogelgsang\*, *Open Routines in Creative Collaboration.*

## 1644. Protest Camps: Politics of Care and Social Reproduction in contemporary social movement politics

Room: *Constitution A, Sheraton, Second Floor* (Panel Session)

ORGANIZER(S): Fabian Frenzel, University of Leicester; Patrick McCurdy, University of Ottawa; Anna Feigenbaum, Bournemouth University

CHAIR(S): Fabian Frenzel, University of Leicester

Discussant(s): Anna Feigenbaum, Bournemouth University

Panelists: Jie Ying, Klavier Wang, The Education University of Hong Kong; Adam Joseph Barker, University of Leicester; Elisa Pascucci, University of Tampere; Sam Halvorsen; Anders Rubing, Bergen School of Architecture; Charalampos Tsavdaroglou; Patrick McCurdy, University of Ottawa; Banu Gokarikel, University of North Carolina, Chapel Hill; Fabian Frenzel, University of Leicester

## 1645. Curating (in)security: Unsettling Geographies of Cyberspace (2) (Sponsored by Political Geography Specialty Group, Communication Geography Specialty Group)

Room: *Constitution B, Sheraton, Second Floor* (Paper Session)

ORGANIZER(S): Andrew Dwyer, University of Oxford; Pip Thornton, Royal Holloway, University of London

CHAIR(S): James Thatcher, University of Washington - Tacoma

4:40 Pip Thornton\*, Royal Holloway, University of London, *a critique of linguistic capitalism (and an artistic intervention).*

5:00 Dan Webster, Queen's University Belfast, *When you stare into the screen, does the screen stare back? Ad Space, Art & Surveillance..*

5:20 Kaily Heitz\*, University of California - Berkeley, *Digital Territories: Black Visual Narrativity & the Production of Space in #blacklivesmatter.*

5:40 David Murakami Wood\*, Queen's University, *Hack the Planet! From Hacking Smart Infrastructure to Subverting Planetary Surveillance.*

Discussant(s): Jeremy Crampton, University of Kentucky

## 1648. Walkable City (Sponsored by Landscape Specialty Group, Urban Geography Specialty Group, Transportation Geography Specialty Group)

Room: *Beacon D, Sheraton, Third Floor* (Paper Session)

ORGANIZER(S): Bradley Bereitschaft, University of Nebraska at Omaha

CHAIR(S): Bradley Bereitschaft, University of Nebraska at Omaha

4:40 Timothy Garceau, Ph.D.\*, Central Connecticut State University, *Impacts of Government Policy on Travel Patterns in the United States.*

5:00 Devon McAslan\*, University of Michigan, *Walkability in Compact Urban Neighborhoods: The Impact of Pedestrian, Transit and Automobile Infrastructure on Walking.*

5:20 Oriol Marquet\*, Department of Parks, Recreation and Tourism Management. North Carolina State University; Aaron J. Hipp, Department of Parks, Recreation and Tourism Management. North Carolina State University; Carme Miralles-Guasch, Geography

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Department. Universitat Autònoma de Barcelona, *Does walkability contribute to active aging? Evidence from the Barcelona Metropolitan Region, Spain.*

**5:40** Anna Bornioli\*, University of the West of England - UWE, *The Influence of Urban Built Environments and Place Perceptions on Psychological Wellbeing and Cognition During Walking.*

**6:00** Bradley Bereitschaft\*, University of Nebraska at Omaha, *Are walkable neighborhoods creative neighborhoods? A case study of Omaha, Nebraska.*

**1649. Staging the Nation: Tourism and the Geopolitical Gaze (Sponsored by Recreation, Tourism, and Sport Specialty Group, Political Geography Specialty Group, Cultural and Political Ecology Specialty Group)**

*Room:* Beacon E, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Sayaka Sakuma; Henryk Ludwik Szadziewski, University of Hawaii - Manoa

CHAIR(S): Sayaka Sakuma

**4:40** Sayaka Sakuma\*, University of Hawaii at Manoa, *Rise of Ecotourism Development in Okinawa, Japan.*

**5:00** Jessica Jean-Francois\*, Harvard University Graduate School of Design, *Setting the Scene for Inclusive Growth in Montserrat and Small Island Developing States (SIDS).*

**5:20** Alison Rieser\*, University of Hawaii - Manoa; Anna S. Antonova, Marie Skłodowska-Curie Research Fellow in Environmental Humanities, University of Leeds, UK, *The Herring Factories at the End of the Universe: Performing Global Processes and Resistance in Iceland's Maritime Cultural Tourism.*

Discussant(s): Sasha Davis, Keene State College

**1650. Contestations for public space: The cases of street art and outdoor advertising in the urban landscape (Sponsored by Urban Geography Specialty Group)**

*Room:* Beacon F, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Elisabeth Sedano, University of Southern California

CHAIR(S): Elisabeth Sedano, University of Southern California

**4:40** Jacob Ramthun\*, Macalester College, *Detecting and Comparing User-Operator Ideologies in Minneapolis Public Spaces: Lefebvre Meets Foucault.*

**5:00** Karen Franck, PhD\*, new jersey institute of technology, *Display under Foot: Information, Decoration and Expression on Sidewalk and Roadway.*

**5:20** Elisabeth Sedano\*, University of Southern California, *Public, Political, and Ephemeral: The Possibility of Changing the Urban Landscape By Engaging Urbanites with Mobile Mapping of Art and Ads.*

**5:40** Lindsey Elizabeth Connors\*, University of Massachusetts - Boston, *Beautification and Representation: Lessons Learned from the Harbor Point Community Mural Project.*

**6:00** Joseph Patton\*, University of Arizona, *Marking the Landscape: The Politics of Street Art and Graffiti in Oakland, California.*

**1653. Rural migrants in Chinese Cities: Challenges and Opportunities-3 (Sponsored by China Specialty Group)**

*Room:* Dalton A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Xiaobo Su, University of Oregon; Xiang KONG, East China Normal University

CHAIR(S): Xiang KONG, East China Normal University

**4:40** Tianjiao Li\*, Peking University; Cindy Fan, UCLA; Guangzhong Cao, Peking University, *The spatial pattern of family migration in China: Characteristics and Determinants.*

**5:00** Shangyi Zhou\*, Beijing Normal University, *The Perspective of Consumer Behavior Theory: A Case Study of an 'Ant Tribe' Community in Beijing.*

**5:20** Marcella Siqueira Cassiano\*, University of Alberta, *Hukou*

*Reform in Jinan: family choices among rural migrants.*

**5:40** ZHU QING\*, Xinyu Wei, Beijing Normal University; Qiuchen Ma, Beijing Normal University; Xuze Ji, Beijing Normal University; Junxiang Ding, Beijing Normal University, *Differences of the Construction of Social Network of the New Generation Rural Migrant Workers Under Different Housing Morphologies ??A Case Study of Beijing.*

Discussant(s): Xiang KONG, East China Normal University

**1655. Skilled mobilities, knowledge circulation and elite formation (Sponsored by Population Specialty Group, Ethnic Geography Specialty Group)**

*Room:* Hampton A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Maggi W.H. Leung, Utrecht University; Nir Cohen, Bar Ilan University

CHAIR(S): Maggi W.H. Leung, Utrecht University

**4:40** Narine N. Kerelian\*, The University of Hong Kong; Lucy P. Jordan, The University of Hong Kong, *Together separately? Young Transmigrant Professionals in 'Asia's World City' Hong Kong.*

**5:00** Suzanne Beech\*, Ulster University, *The Education Agents' Conference: Encouraging International Student Recruitment and Facilitating Migration Industries.*

**5:20** Jane YeonJae Lee\*, Stanford University, *Globalizing mobility transition policies: low-carbon policy mobilities through skilled migration.*

**5:40** Nir Cohen\*, Bar Ilan University, *Repatriating by networks? Israel's skilled return migration industry.*

**6:00** Birgit Ursula Glorius\*, TU Chemnitz, *Back to BG: Return migration of Bulgarian Students Graduating Abroad.*

**1656. Feminist Political Geographies 5: Resistance and Social Movements (Sponsored by Geographic Perspectives on Women Specialty Group, Cultural Geography Specialty Group)**

*Room:* Hampton B, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Jill Williams, Southwest Institute for Research on Women; Vanessa Anne Massaro, Bucknell University; Caroline Faria, University of Texas - Austin

CHAIR(S): Jill Williams, Southwest Institute for Research on Women

**4:40** Sara Koopman\*, University of Tampere, *Using the geosocial to do altergeopolitics: is this really a form of feminist geopolitics?.*

**5:00** Katherine Brickell, Dr\*, Royal Holloway, University of London; Dana Cuomo, Dr, University of Washington, *Feminist Geolegalities.*

**5:20** Derek Ruez\*, University of Kentucky, *Queer Migrations and the Intimately Political Geographies of Integration.*

**5:40** Jouni Hakli, Dr\*, University of Tampere; Kirsi Pauliina Kallio, Dr\*, University Of Tampere; Elisa Pascucci, Dr., University of Tampere, *Becoming refugee: performative political agency at the humanitarian border.*

**1657. African Urbanism with Chinese Characteristics? (Sponsored by Urban Geography Specialty Group)**

*Room:* Gardner A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Seth Schindler, University of Sheffield; Tom Goodfellow, University of Sheffield

CHAIR(S): Seth Schindler, University of Sheffield

**4:40** Rakhee Kewada\*, CUNY - Graduate Center, *Concrete and Soil: Rural-urban migration and the role of Chinese construction firms in building real estate in Dar es Salaam.*

**5:00** Seth Schindler\*, University of Sheffield, *Connecting with Sino-centric global production/trade networks: The construction of a mega-port in Bagamoyo, Tanzania.*

**5:20** Melissa Lefkowitz\*, New York University, *Following Chinese Dreams in the Silicon Savannah: An*



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*Ethnographic Investigation of the Social and Spatial Lives of Young Chinese Professionals in Nairobi, Kenya.*

**5:40** Tom Goodfellow\*, University of Sheffield, *Interrogating the 'Chinese model' of urbanisation in Ethiopia and Uganda.*

Discussant(s): Tom Goodfellow, University of Sheffield

**1658. The Anthropocene on Tour: The Political Ecology of Tourism, Agriculture and Food (In)security**

*Room:* Gardner B, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Mary Mostafanezhad, University of Hawai'i at Manoa; Amelia Moore, University of Rhode Island - CHAIR(S): Mary Mostafanezhad, University of Hawai'i at Manoa

**4:40** Tracey Heatherington, Associate Professor of Anthropology\*, University of Wisconsin Milwaukee, *Destination Svalbard: Global Dreamtimes of Survival Take Root in the Arctic Frontier.*

**4:56** Benjamin Schrager\*, University of Hawaii at Manoa, *Tsukada Nojo and the Corporate Farm to Table : Place, Provenance, and Quality in the Anthropocene.*

**5:12** Michael Anthony Di Giovine, Ph.D.\*, West Chester University, *The Trouble with Translation: Sustainable Food Activism and Slow Tourism in Central Italy.*

**5:28** Andrea E. Murray\*, Harvard University, *Vulnerability on Tour: Geopolitical Imaginaries of Place in East Asia and the Caribbean.*

**5:44** Amelia Moore\*, University of Rhode Island, *Feeding Island Dreams: Exploring the Relationship Between Food Security and Agritourism in The Bahamas.*

Discussant(s): Heather Hindman, University of Texas at Austin; Jonathan Padwe, University of Hawaii - Manoa

**1659. Politics, Hazards, and Planning**

*Room:* Fairfax A, Sheraton, Third Floor (Interactive Short Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Joel P. Jennings, St. Louis University

**4:40** Christina Welch\*, Oregon State University, *The Role of Transboundary Aquifers in Bilateral Agreements.*

**4:49** Claire Poelking\*, University of Michigan, *The New Shepherd: A Paradigm Shift in an Age-Old Tradition.*

**4:58** Roger Allen Jennette\*, West Virginia University, *Why We Fight: Using Stories to Create a Sense of Inclusion within an Activist Movement.*

**5:07** Paul Moss\*, Minnesota Pollution Control Agency, *Minnesota Climate Adaptation Planning Survey Results.*

**5:16** Wang Jieyong\*, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, *Mapping rural depopulation in China from 1990 to 2010.*

**5:25** Paola Citlali Segundo Metay\*, Universidad Nacional Autonoma De Mexico; Pedro Urquijo, CIGA, Universidad Nacional Autónoma de Mexico; Gerardo Bocco, CIGA, Universidad Nacional Autónoma de Mexico, *Mexican Landscapes in the history of geography: the case of the Berkeley School's research..*

**5:34** Megan A Gall, PhD\*, Lawyers' Committee for Civil Rights Under Law; Harvey Palmer, PhD, University at Buffalo SUNY, *The Political Geography and Electoral Consequences of the Slavery and Civil Rights Eras in American History.*

**5:43** Richard L. Morrill\*, University Of Washington, *Some thoughts from correspondence between Bill Bunge and Dick Morrill.*

**5:52** Joel P. Jennings, Ph. D.\*, St. Louis University; Christopher G Prener, Ph. D., Saint Louis University; Taylor Braswell, Saint Louis University; Kyle Miller, Saint Louis University; Andrew Smith, Saint Louis University, *"To the Barricades! Street Closures as Public Policy in St. Louis, MO".*

**1660. Hazards Risks and Disasters 5 - Planning and Management (Sponsored by Hazards, Risks, and Disasters Specialty Group)**

*Room:* Fairfax B, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Eric Tate, University of Iowa; Johanna L. Ostling

CHAIR(S): Johanna L. Ostling

**4:40** Chad F. Emmett\*, Brigham Young University, *Tsunami Mitigation Efforts on the South Coast of Java.*

**5:00** Chetan Tiwari, PhD\*, University of North Texas; Armin Mikler, PhD, University of North Texas; Marty O'Neill, PhD, University of North Texas, *RE-PLAN: An Evidence-Based Response Planning.*

**5:20** Heather A Kramer, PhD\*, University of Wisconsin - Madison; Volker C Radeloff, PhD, University of Wisconsin - Madison; Susan I Stewart, PhD, University of Wisconsin - Madison; Miranda H Mockrin, PhD, USFS Northern Research Station, *Where do houses burn in the US from wildfire relative to the wildland urban interface and national fire mitigation programs.*

**1661. The International Year of Global Understanding**

*Room:* Jefferson, Sheraton, Third Floor (Panel Session)

ORGANIZER(S): John Wertman, American Association of Geographers

CHAIR(S): John Wertman, American Association of Geographers  
Panelists: Benno Werlen, University of Jena; Allen J. Scott, University of California - Los Angeles; Farhana Sultana, Syracuse University; Margaret Robertson, La Trobe University; Yukio Himiyama

**1662. Coastal and Aeolian Geomorphology III: Managing Coastal Landscapes through Applied Research (Sponsored by Coastal and Marine Specialty Group, Applied Geography Specialty Group)**

*Room:* Kent, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Phillip P. Schmutz, University of West Florida; Patrick Barrineau, Texas A&M

CHAIR(S): Phillip P. Schmutz, University of West Florida

**4:40** Robert Newell\*, University of Victoria, *Exploring the potential of realistic, immersive geovisualizations as tools for collaborative coastal management and planning.*

**5:00** Benjamin T Gutierrez, PhD\*, United States Geological Survey; Sara L Zeigler, PhD., U.S. Geological Survey; Emily J Sturdivant, U.S. Geological Survey; Nathaniel G. Plant, PhD., U.S. Geological Survey; E. Robert Thieler, PhD, U.S. Geological Survey; Sarah Karpanty, PhD., Virginia Tech Department of Fish and Wildlife Conservation; James Fraser, PhD, Virginia Tech Department of Fish and Wildlife Conservation; Dan Catlin, PhD, Virginia Tech Department of Fish and Wildlife Conservation, *Using Bayesian Networks to forecast barrier island geomorphology and impacts to piping plover habitat due to sea-level rise.*

**5:20** Jesse Charles Kolodin\*, Montclair State University; Jorge Lorenzo-Trueba, PhD, PhD Advisor; Di Jin, PhD, Policy Group Member; Porter Hoagland, PhD, Policy Group Member, *The Relationship between Dune Morphodynamics and Economic Values along the New Jersey Shoreline.*

**5:40** Beatrice OHara\*, West Chester University of Pennsylvania, *Estimating Carbon Stock and Potential Carbon Loss due to Storm Erosion and Anthropogenic Impacts in Delaware Bay Tidal Salt Marshes.*

**6:00** Kelsi Furman\*, Northeastern University; Steven Scyphers, Dr., Northeastern University; Matthias Ruth, Dr., Northeastern University; Michael Beck, Dr., The Nature Conservancy; Jonathan Grabowski, Dr., Northeastern University, *Investigations of coastal residents' views on the condition and restoration of shorelines along an urbanization gradient.*

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### 1663. Zine stations: craft & play your way through AAG

**Room:** *Commonwealth, Sheraton, Third Floor* (Paper Session)  
 ORGANIZER(S): Harriet Hawkins, Royal Holloway, University of London  
 CHAIR(S): Harriet Hawkins, Royal Holloway, University of London

### 1664. Lake Health: Remote Sensing and Monitoring (Sponsored by Remote Sensing Specialty Group, Water Resources Specialty Group)

**Room:** *Boylston, Marriott, First Floor* (Paper Session)  
 ORGANIZER(S): RDK Herman, National Museum of the American Indian  
 CHAIR(S): Helenmary M. Hotz, University of Massachusetts Boston  
**4:40** Jindong Wu\*, California State University, Fullerton; Teng Wang, California State University, Fullerton, *Assessing Salton Sea Water Surface Change with Landsat TM Imagery*.  
**5:00** Fangfang Yao\*, Kansas State University; Jida Wang, Department of Geography, Kansas State University, Manhattan, KS, USA; Chunqiao Song, Department of Geography, University of California, Los Angeles, CA, USA; Takuto Urano, Department of Geography, Kansas State University, Manhattan, KS, USA, *Recent dynamics of global lake water storage revealed by remote sensing and gauging observations*.  
**5:20** Jonathan Aitchison\*, School of Earth and Environmental Sciences, University of Queensland, *Palimpsest lakes of western Tibet and Ladakh: interplay of climate and neotectonics*.  
**5:40** Helenmary M. Hotz\*, University of Massachusetts Boston, School for the Environment; Alan D Christian, PhD, University of Massachusetts Boston, School for the Environment, *Analysis of Lake Level Rise, Étang Saumâtre, Haiti: Landsat Imagery 1984-2014*.

### 1665. European Financial Geographies in Flux IV

**Room:** *Tremont, Marriott, First Floor* (Paper Session)  
 ORGANIZER(S): David Bassens, Free University of Brussels; Reijer Hendrikse, Vrije Universiteit Brussels; Michiel Van Meeteren, Vrije Universiteit Brussel  
 CHAIR(S): Susanne Klara Heeg, Goethe University  
**4:40** David Bassens\*, Free University of Brussels; Reijer Hendrikse, Vrije Universiteit Brussel; Michiel van Meeteren, Vrije Universiteit Brussel, *'The Apple-ization of Finance'? Reflections on the imminent FinTech 'revolution' in the financial industry*.  
**5:00** Rodrigo Fernandez\*, University of Leuven; Reijer Hendrikse, VUB, *Unpacking the offshore backbone of global capital*.  
**5:20** Nina Haerter\*, VUB; Michiel van Meeteren, VUB; David Bassens, VUB, *The Evolution of Financial Sector Lobbying in the EU*.  
**5:40** Eric Knight\*, University of Sydney; Dariusz Wojcik, University of Oxford; Phil O'Neill, Prof, University of Western Sydney, *Visible Presence: how fintech firms internationalize*.  
 Discussant(s): Ewald Engelen

### 1666. Social Geographies of Wind Energy Development (Sponsored by Rural Geography Specialty Group, Graduate Student Affinity Group, Energy and Environment Specialty Group)

**Room:** *Columbus 1, Marriott, First Floor* (Paper Session)  
 ORGANIZER(S): Chad Walker, Western University; Jamie Baxter, University Of Western Ontario  
 CHAIR(S): Jamie Baxter, University Of Western Ontario  
**4:40** Jamie Baxter\*, University Of Western Ontario; Chad Walker, University of Western Ontario, *Method sequence and dominance in mixed-method research: An empirical investigation using the social dynamics of wind energy literature*.

**5:00** Nicholas Matthew John Mercer, Ba, MA\*, University of Waterloo; Gabriela Sabau, BA, PhD, School of Science and Environment, Grenfell Campus: Memorial University of Newfoundland; Andreas Klinke, BA, MA, PhD, Environmental Policy Institute, Grenfell Campus: Memorial University of Newfoundland, *"Wind Energy is not and Issue for Government" Barriers to Wind Energy Development, A Case Study of Newfoundland and Labrador*.

**5:20** Leilane Oliveira Chaves\*, Federal University of Ceara, *Impacts of wind power on the Cumbe community, northeastern Brazil*.

**5:40** Sarah Catherine Klain, PhD\*, Oregon State University; Terre Satterfield, PhD, University of British Columbia; Suzanne MacDonald, MA, Island Institute; Kai M.A. Chan, PhD, University of British Columbia, *Will communities "open-up" to offshore wind? Lessons learned from New England Islands*.

**6:00** Chad Walker\*, Western University; Jamie Baxter, PhD, Western University, *"It's easy to throw rocks at a corporation": wind energy development and distributive justice in Canada*.

### 1667. The European Union after BREXIT (Sponsored by Political Geography Specialty Group, European Specialty Group, Economic Geography Specialty Group)

**Room:** *Columbus 2, Marriott, First Floor* (Paper Session)  
 ORGANIZER(S): Balázs Forman, Corvinus University of Budapest  
 CHAIR(S): Balázs Forman, Corvinus University of Budapest  
 Introducer: Balázs Forman  
**4:50** Catherine Harris\*, University of Birmingham, *The linkages and relationships of East European migrant firms in the UK..*  
**5:10** Kenneth Johnson\*, SUNY-Oneonta, *The European Union After BREXIT*.  
**5:30** Bostjan Rogelj\*, University of Ljubljana, *Is It Really A European Crisis?*.  
 Discussant(s): Zoltán Gál, Kaposvar University; Centre for Economic & Regional Studies, HAS

### 1668. Issues in Ethnic Geography: Contested Spaces, Urban Regeneration and Place Identity-II (Sponsored by Population Specialty Group, Urban Geography Specialty Group, Ethnic Geography Specialty Group)

**Room:** *St. Botolph, Marriott, Second Floor* (Paper Session)  
 ORGANIZER(S): Madhuri Sharma, University of Tennessee, Knoxville; Lee Fiorio, University of Washington; Paul N. McDaniel, Kennesaw State University  
 CHAIR(S): Paul N. McDaniel, Kennesaw State University  
**4:40** Evelyn D. Ravuri\*, Saginaw Valley State University; Evelyn Dawn Ravuri, Saginaw Valley State University, *Hispanic 'Hypergrowth' in Indianapolis*.  
**5:00** Norman Carter\*, California State University, Long Beach, *From Formation to Extinction: The Evolution of Ethnic Enclaves*.  
**5:20** Richard C. Jones\*, University Of Texas at San Antonio, *Resilience of Immigrants in the US Recession and Recovery*.  
**5:40** Sarah Ryniker\*, Georgia Southern University, *Identity, Place, and Irish Neighborhoods in nineteenth century Savannah, Georgia*.  
**6:00** Lee Fiorio\*, University of Washington, *Urban Sprawl and Neighborhood Racial Change: Patterns of Racial and Ethnic 'Sprawl' Amid Growing Diversity, 1990 to 2010*.

### 1669. Teaching Qualitative Methods in Geography (Sponsored by Qualitative Research Specialty Group, AAG Careers and Professional Development Theme)

**Room:** *Regis, Marriott, Third Floor* (Panel Session)  
 ORGANIZER(S): Daniel Trudeau, Macalester College  
 CHAIR(S): Daniel Trudeau, Macalester College



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Panelists: Dydia DeLyser, California State University, Fullerton; Deborah G. Martin, Clark University; Amy Trauger, University of Georgia; Daniel Trudeau, Macalester College; Stuart C. Aitken, San Diego State University; Lucy Jarosz, University of Washington

**1670. Hydroclimatic change in mountain environments III: Weather and Climate Conditions (Sponsored by Climate Specialty Group, Cryosphere Specialty Group, Mountain Geography Specialty Group)**

**Room:** Northeastern, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Robert Hellström, Bridgewater State University; Bryan G. Mark, The Ohio State University

CHAIR(S): Robert Hellström, Bridgewater State University

**4:40** Bohumil M. Svoma, PhD\*, University of Missouri, *Snow Sublimation from two Basins in the Western United States.*

**5:00** Darrian M. Bertrand\*, University of Oklahoma; Renee A. McPherson, University of Oklahoma, *Future Hydrologic Extremes of the Red River Basin.*

**5:20** Pablo Lagos\*, Instituto Geofísico del Perú; Bryan G. Mark, Byrd Polar Research Center / Geography, The Ohio State University, Columbus, OH; Jeffrey M McKenzie, Department of Earth and Planetary Sciences, McGill University, Montreal, Quebec; Michel Baraer, Department of Construction Engineering, École de technologie supérieure, Montreal, Quebec; Oliver Wigmore, Byrd Polar Research Center / Geography, The Ohio State University, Columbus, OH; Lauren D Somers, Department of Earth and Planetary Sciences, McGill University, Montreal, Quebec; Yosselyn Ccasani, Instituto Geofísico del Perú, Lima, Perú, *Investigating Climate Forcing of Huaytapallana Glacier Recession, Central Peruvian Andes.*

**5:40** Darren Blackburn\*, San Francisco State University; Andrew Oliphant, Ph.D., San Francisco State University, *Investigation of carbon and water fluxes in a Sierra Nevada meadow.*

**6:00** Robert Hellström\*, Bridgewater State University; Alfonso Fernández, Universidad de Concepción and The Ohio State University; Bryan Greenwood Mark, The Ohio State University; Jason Michael Covert, University at Albany, SUNY; Alejo Cochachin Rapre, Peruvian National Water Authority; Ricardo Jesús Gomez, Huascarán National Park and World Biosphere Reserve, *Incorporating Autonomous Sensors and Climate Modeling to Gain Insight into Seasonal Hydrometeorological Processes within a Tropical Glaciated Valley.*

**1671. Mobile dwelling 4: Assembling**

**Room:** Brandeis, Marriott, Third Floor (Paper Session)

ORGANIZER(S): David Bissell, Australian National University; Andrew Gorman-Murray, Western Sydney University

CHAIR(S): Andrew Gorman-Murray, Western Sydney University

**4:40** Mathis Stock\*, University of Lausanne, *Institute of Geography and Sustainability, Accounting for mobile lifestyles through a theory of dwelling.*

**5:00** Robyn Dowling, Prof.\*, University of Sydney; Sophia Maalsen, Dr, University of Sydney, *Doing dwelling: electric bikes, car sharing and the constitution of home.*

**5:20** Gail Adams-Hutcheson, Dr\*, The University of Waikato, *Spacings of mobile farming in New Zealand: Assemblages of cows, bodies, farms and the weather.*

**5:40** AFM Ashraf Alam\*, Macquarie University; Andrew McGregor, Macquarie University; Donna Houston, Macquarie University, *Inhabiting the nexus of margins, mobilities and the more-than-human.*

Discussant(s): Sara Dorow, University of Alberta

**1672. Changing Landscapes and Livelihoods in the Amazon Basin 2 (Sponsored by Cultural and Political Ecology Specialty Group, Latin America Specialty Group)**

**Room:** MIT, Marriott, Third Floor (Paper Session)

ORGANIZER(S): David S. Salisbury, University Of Richmond; Christian Abizaid, University of Toronto

CHAIR(S): Christian Abizaid, University of Toronto

**4:40** Richard E. Bilsborrow\*, UNC, *What do we know about human-environment linkages in the Amazon from Micro-level Research? A Quarter Century Perspective Focusing on Ecuador.*

**5:00** Maira Borges Faingulernt, PhD student\*, Unicamp, *Invisible livelihoods on the Xingu river: A review of the impacts of Belo Monte dam in the region of the Middle (state of Para, Brazil).*

**5:20** Aaron Asa Pierce Groth\*, University of Texas - Austin, *Indigenous floodplain agriculture of the Purús and Curanja Rivers, Peru.*

**5:40** David S. Salisbury\*, University Of Richmond; C. Melissa Velasco Alarcón, Universidad San Francisco de Quito; Abel Bazán Gutiérrez, Universidad Nacional de Ucayali; Alexander Fasanando Riveiro, Universidad Nacional de Ucayali; Caroline Dougherty, University of Richmond; Chris Fagan, Upper Amazon Conservancy; Andrea Chávez Michaelsen, Universidad Nacional de Madre de Dios, *The Religion of Amazonian Roadbuilding: A Case Study of the Alto Purús Region of Peru.*

**6:00** Irving Foster Brown\*, Woods Hole Research Center and Federal University of Acre, *The necessity of optimism about climate change mitigation and adaptation in the tri-national MAP Region of southwestern Amazonia..*

**1673. Symposium on Human Dynamics in Smart and Connected Communities: Time-geography in the making 3**

**Room:** Boston University, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Kajsa Ellegård, Linköping University

CHAIR(S): Kajsa Ellegård, Linköping University

**4:40** Philippe Vaillant\*, University of Washington, *From rhythms to pulses: a unifying perspective on time structures research.*

**5:00** Gustavo Abreu\*, Pontifical Catholic University of Minas Gerais; Joao F. de Abreu, Ph.D, Pontifical Catholic University of Minas Gerais, *Hagerstrand's space Time Model: A Computer Application to Geographical Education.*

**5:20** SHI HE\*, peking university; Yanwei Chai, Peking university, *A Study on Influencing Factors of Women's Leisure Satisfaction?? A Case Study of Xining.*

**5:40** Jianan Shen\*, University College London; Tao Cheng, University College London, *Network Based ST-DBSCAN Algorithm For Region Of Interest Detection.*

Discussant(s): Kajsa Ellegård, Linköping University

**1674. CyberGIS Reflections from the Past and Projections for the Future (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group, Spatial Analysis and Modeling Specialty Group)**

**Room:** Simmons, Marriott, Third Floor (Panel Session)

ORGANIZER(S): Eric Shook, University of Minnesota; Shaowen Wang, University of Illinois at Urbana-Champaign

CHAIR(S): Eric Shook, University of Minnesota

Introducer: Eric Shook

Discussant(s): Shaowen Wang, University of Illinois at Urbana-Champaign; Michael F. Goodchild, University of California

Panelists: Weihe Wendy Guan, Harvard University

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### 1675. **UNTAPPED: Fresh Voices in Water Resources Geography 2 (Sponsored by Graduate Student Affinity Group, Water Resources Specialty Group)**

*Room:* Suffolk, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Brian C. Chaffin, University of Montana; Jacob Petersen-Perlman, University of Arizona

CHAIR(S): Jacob Petersen-Perlman, University of Arizona

**4:40** Amanda Fencel\*, UC Davis; Mark Lubell, PhD, UC Davis; Julia Ekstrom, PhD, UC Davis, *Learning from Utilities' Experiences-- are California's Small Drinking Water Utilities Resilient to Drought and Climate impacts?*

**5:00** Corrie Hannah\*, Duke University, *A spatial assessment of irrigation management institutions in rural Tajikistan.*

**5:20** Ashley Juric\*, University of Montana, *Managing Mining Pollution: The Case of the Water Quality Governance in the Transboundary Kootenai.*

**5:40** Federico Antolini\*, University of Iowa, *Spatial criteria for optimal siting of distributed systems of reservoirs.*

Discussant(s): Brian C. Chaffin, University of Montana

### 1676. **Symposium on Human Dynamics in Smart and Connected Communities: Smart Cities and Urban Computing 4 (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group, Spatial Analysis and Modeling Specialty Group)**

*Room:* Wellesley, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Xinyue Ye, Kent State University; Shaowen Wang, University of Illinois at Urbana-Champaign

CHAIR(S): Chen Zhong, Kings College London

**4:40** Zhihao Xie\*, School of Geography, South China Normal University; Wangbao Liu, School of Geography, South China Normal University, *Exploring temporal-spatial dynamic pattern of urban public transportation: based on big data.*

**5:00** Haitao Jin\*, Institute of Geographic Science and Natural Resources Research, CAS, Beijing, China; Fengjun Jin, Professor, Institution: Institute of Geographic Science and Natural Resources Research, CAS, Beijing, China, *Investigating Urban Functional Zones in Beijing with Commuting Data.*

**5:20** Andrew Layton, M.S. Student, University of Idaho; Felix (Haifeng) Liao, Ph.D, University of Idaho, *Estimating the economic value of lake views in a rapidly urbanizing area using hedonic pricing analysis.*

**5:40** Roberto Ponce-Lopez\*, Massachusetts Institute of Technology; Joseph Ferreira, Professor, Massachusetts Institute of Technology, *Translating a Road Network into a Virtual City for Simulation.*

**6:00** Chen Zhong\*, Kings College London; Joana Barros, Birkbeck, University of London, *Location-based potential accessibility measures: a case study of London.*

### 1677. **Extra-regional dynamics of territorial development: towards a new agenda?**

*Room:* Harvard, Marriott, Third Floor (Panel Session)

ORGANIZER(S): Stuart Dawley, CURDS, Newcastle University; Danny Mackinnon, Newcastle University

CHAIR(S): Marion Werner, University at Buffalo, SUNY

Panelists: Danny Mackinnon, Newcastle University; Henry Wai-chung Yeung, National University of Singapore; Ron Boschma, Utrecht University; Christian Binz, CIRCLE - Lund University

### 1679. **Clandestine dynamics I: the cocaine commodity chain and land change in Latin America (Sponsored by Human Dimensions of Global Change Specialty Group, Geographies of Food and Agriculture Specialty Group, Economic Geography Specialty Group)**

*Room:* Arlington, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Beth Tellman, Arizona State University; Karina Benessaiah, Arizona State University; David J.

Wrathall, Oregon State University

CHAIR(S): Teo Ballve, Colgate University

Introducer: Teo Ballve

**4:50** Kendra McSweeney\*, The Ohio State University; Pearson Zoe, University of Wyoming; Erik Nielsen, Northern Arizona University, *Narco-Capital and Rural Development in Central America.*

**5:08** Karina Benessaiah\*, Arizona State University; Andrea Rivera-Sosa, Universidad Nacional Autónoma de Honduras -UNAH; David Wrathall, Oregon State University, *Marine and coastal narco-transformations: illicit capital as a driver of social-ecological change.*

**5:26** Jennifer A. Devine\*, Texas State University; Nate Currin\*, Texas State University, *Clandestine cattle and deforestation in Guatemala's Maya Biosphere Reserve.*

**5:44** Hannah Julia Meszaros Martin\*, Goldsmiths College, University of London, *Clouds and coca: Mapping the socio-environmental effects of aerial fumigation in southern Colombia through coupled field- and remote sensing-based inquiry.*

Discussant(s): David J. Wrathall, Oregon State University

### 1680. **Interrogating land, property, and land use III: Land conflicts (Sponsored by Cultural and Political Ecology Specialty Group, Geographies of Food and Agriculture Specialty Group)**

*Room:* Berkeley, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Donald Leffers; Gerda R. Wekerle, York University

CHAIR(S): Gerda R. Wekerle, York University

**4:40** Lynn Roche Phillips, Ph.D., AICP\*, University of Kentucky, *Farmers as Elites and Use Value: The Case of Lexington, Kentucky.*

**5:00** Rachael Baker\*, York University, *"We got the land!": Unpacking Detroit's degrowth narrative.*

**5:20** Michael RJ Koscielniak\*, University of Michigan, *Land on demand: Dirt, demolition and materializing markets in Detroit, MI.*

**5:40** Mel Walther\*, York University, *Social Energy from Waste - Relationships, Trust, and Science in Facility Siting Conflict.*

Introducer: Donald Leffers

### 1681. **Geographies of Care in the Spaces and Places of International Development 2: Conceptions of Care (Sponsored by Geographic Perspectives on Women Specialty Group)**

*Room:* Clarendon, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Amy Kipp, University of Guelph; Roberta Hawkins, University of Guelph

CHAIR(S): Maureen Hays-Mitchell, Colgate University

**4:40** Sabina Lawrie\*, University of Glasgow, *Masculinity and care in community groups in Dar es Salaam, Tanzania.*

**5:00** Kelsey Brie-Anne Hanrahan\*, Towson University, *Is there care in cash transfer? A critical look at social welfare implementation in northern Ghana.*

**5:20** Austin Crane\*, University of Washington, *Bordering on crisis: the relational spaces of humanitarianism in EU migration management.*

**5:40** Eloho E. Basikoro\*, University of Washington - Seattle, WA, *Pathologies of HIV/AIDS Care: (Re)constructing the Notions of Care and Responsibility within a Patriarchal Social Relations and Care Ethics Framework.*

**6:00** Kristy Copeland\*, University of Washington, *Alliance-building processes.*

### 1682. **Anarchist Political Ecology: Theoretical Horizons and Empirical Axes IV - Beyond Conservation, Toward Degrowth (Sponsored by Political Geography Specialty Group, Cultural and Political Ecology Specialty Group)**

*Room:* Dartmouth, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Simon Springer, University of Victoria; Martin

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Locret-Collet

CHAIR(S): Martin Locret-Collet

**4:40** Gerónimo Barrera, PhD Student\*, University of Texas at Austin, *An anarchist landscape?: Rethinking landscape, conservation and "other" geographies..*

**5:00** Elizabeth Auclair\*, Cergy Pontoise University, *Heritage as "commons": a framework for degrowth and alternative urban governance.*

**5:20** Kyle Hayden\*, Miami University, Oxford, Ohio, *Problematizing the (Sustainable) City: Planning Against the Growth Paradigm.*

**5:40** Deric Shannon\*, Emory University; Clara Perez\*, Emory University, *The Soft Hand of Capital: Reconsidering the Capacity for a Green and Need-Aware Capitalism.*

**6:00** Francisco Javier Toro\*, Universidad de Granada - España, *Are State and public institutions compatible with degrowth? An anarchist perspective.*

**1683. Business Geography Keynote (Sponsored by AAG Careers and Professional Development Theme, Business Geography Specialty Group)**

*Room:* Exeter, Marriott, Third Floor (Panel Session)

ORGANIZER(S): Lawrence Joseph, West Marine

CHAIR(S): Lawrence Joseph, West Marine

Introducer: Lawrence Joseph

**1684. Taste, Space, and the Urban Landscape III (Sponsored by Urban Geography Specialty Group, Cultural Geography Specialty Group, Geographies of Food and Agriculture Specialty Group)**

*Room:* Fairfield, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Robert D. Lemon, University of Texas at Austin; Cosima Werner, Heidelberg University

CHAIR(S): Robert D. Lemon, University of Texas at Austin  
Discussant(s): Robert D. Lemon, University of Texas at Austin; Cosima Werner, Heidelberg University

**1685. New Records of Paleoenvironmental Change V (Sponsored by Paleoenvironmental Change Specialty Group)**

*Room:* Salon H, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Matthew T. Kerr, The University of Tennessee; Anna Agosta G'meiner, McGill University

CHAIR(S): Matthew T. Kerr, The University of Tennessee  
Introducer: Matthew T. Kerr

**4:40** Alyssa Rose Hynes\*, University of Utah; Andrea Brunelle, Dr., University of Utah, *A Fire and Vegetation Reconstruction of the Bonneville Basin.*

**5:00** Kevin M Spigel, Ph.D.\*, Unity College, *A multi-proxy study of environmental change in Acadia National Park, Maine.*

**5:20** Marcus James Thomson\*, UCLA, *Simulated Impact of Climate Change on Fremont Native American Maize Farming in Utah at the MCA-LIA Transition, ca. 10-14th c. CE.*

**5:40** Jon-Paul P McCool, University of Cincinnati, Department of Geography & GIS, *Elevated Groundwater during the African Humid Period and its Effect on Nile River Environs.*

**1686. Methods for Livelihood Vulnerability Analysis and Mapping (Sponsored by Development Geographies Specialty Group)**

*Room:* Salon I, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Brent McCusker, West Virginia University

CHAIR(S): Brent McCusker, West Virginia University

**4:40** Brent McCusker\*, West Virginia University, *Livelihood Vulnerability Mapping and Analysis: Case Studies and Method.*

**5:00** Jamison F. Conley\*, West Virginia University; Tim Essam, USAID; Park Muhonda, West Virginia University; Brent McCusker, West Virginia University; Patrick Gault, USAID; Laura Hughes, USAID, *Using Spatial Regression to Support Livelihood Analysis and*

*Mapping.*

**5:20** Timothy M. Essam\*, United States Agency for International Development; Timothy M Essam, Ph.D, United States Agency for International Development, *Regression analysis of livelihoods and key contributing factors.*

**5:40** Patrick T Gault, M.A. \*, United States Agency for International Development, *Data for Decision Making: Creating Influential Graphics.*

Discussant(s): Paul O'Keefe, Rutgers University

**1687. The (Un & Re) makings of inclusive and sustainable infrastructure**

*Room:* Salon J, Marriott, Fourth Floor (Panel Session)

ORGANIZER(S): Ralitsa Hiteva, SPRU, University of Sussex; Janice Astbury, University of Durham; Katherine Lovell, University of Sussex

CHAIR(S): Erik Swyngedouw, University of Manchester  
Panelists: Andrew Karvonen, University of Manchester; Yaffa Truelove, Yale-NUS College; Andy Stirling, SPRU - University of Sussex; Erin Pritchard, Liverpool hope university

**1688. Changing Livelihoods and Landscapes in East Africa (2 of 2) (Sponsored by Cultural and Political Ecology Specialty Group, Human Dimensions of Global Change Specialty Group, Africa Specialty Group)**

*Room:* Salon K, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Timothy D. Baird, Virginia Tech; Clark Gray, University of North Carolina at Chapel Hill

CHAIR(S): Timothy D. Baird, Virginia Tech

**4:40** David Fox\*, Virginia Tech University, *Settlement patterns and their implications for livelihoods among Maasai pastoralists..*

**5:00** Chris Huggins, Dr\*, University of Ottawa, *'Local' Land Use Planning in Tanzania as part of Transnational Assemblages.*

**5:20** Valerie Mueller, International Food Policy Research Institute; Glenn Sheriff, US EPA; Xiaoya Dou, University of Maryland; Clark Gray\*, University of North Carolina at Chapel Hill, *Climate and unemployment in East Africa.*

**5:40** Bernadette Arakwiye\*, Clark University, *Exploring opportunities for forest landscape restoration in Rwanda: a multidisciplinary approach.*

**6:00** Judith Namanya\*, Michigan State University, *Rainwater Harvesting: A potential for Reducing Water & Food Insecurity in the Semi-Arid Savannah of Uganda.*

**1689. History of Geography III: Maps and Moments (Sponsored by History of Geography Specialty Group)**

*Room:* Vineyard, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Dorothy Sack, Ohio University

CHAIR(S): Jorn Seemann, Ball State University

**4:40** Christine Petto\*, Southern CT State University, *Lilies, Lions, and Arrows: Early Modern Maps of America & their Competing Rhetoric.*

**5:00** Kieran Rankin\*, Trinity College Dublin, *'Geography Bewitched': Nineteenth Century Historical Caricature and the Map of Ireland.*

**5:20** Jenny Marie Johnson\*, University of Illinois at Urbana-Champaign, *Links in Modern Cartography: A Citation Analysis of Elements of Cartography.*

**5:40** Mark Monmonier\*, Syracuse University, *Adventures in Self-Publishing: A Personal, Do-It-Yourself History of Cartography.*

**6:00** Joseph J. Kerski\*, Esri, *The 100 Most Revolutionary Moments in Geography.*



## TUESDAY, April 5 • 4:40 PM - 6:20 PM • 1600

### 1690. **Wine 5: Teaching the Geography of Wine - A Lecture by Mr. John Boyer (Sponsored by Wine Specialty Group)**

**Room:** *Yarmouth, Marriott, Fourth Floor* (Paper Session)  
 ORGANIZER(S): Christi Townsend, Texas State University -San Marcos; Colleen C. Hiner, Texas State University  
 CHAIR(S): Nancy Hoalst-Pullen, Kennesaw State University  
 Introducer: John W. Nowlin  
 Discussant(s): John Boyer, Virginia Tech

### 1691. **Enacting, Accessing and Imagining Global Institutions (Sponsored by Political Geography Specialty Group)**

**Room:** *Nantucket, Marriott, Fourth Floor* (Paper Session)  
 ORGANIZER(S): Alex Jeffrey, University of Cambridge; Fiona McConnell, University of Oxford  
 CHAIR(S): Alex Jeffrey, University of Cambridge  
**4:40** Fiona McConnell\*, University of Oxford, *Minority communities, human rights and the United Nations.*  
**5:00** Jason Dittmer\*, University College London, *Geopolitical assemblages and the Global Network of Navies.*  
**5:20** Ruth Craggs\*, King's College London, *Crafting the Commonwealth in the 1960s: Creativity, performance and diplomacy.*  
**5:40** Merje Kuus\*, University of British Columbia, *Where is International Regulatory Expertise?: Spatial Fields in European Diplomacy.*  
**6:00** Matthew Bolton\*, Pace University, *Challenges in Nationalizing Global Norms: Kenya and the Arms Trade Treaty.*

### 1692. **Geospatial Health Research Symposium: Accessibility, School Travel, Walkability (Sponsored by Health and Medical Geography Specialty Group)**

**Room:** *Provincetown, Marriott, Fourth Floor* (Paper Session)  
 ORGANIZER(S): Eric M. Delmelle, University of North Carolina at Charlotte; Michael J. Widener, University of Toronto; Mei-Po Kwan, University of Illinois at Urbana-Champaign  
 CHAIR(S): Eric M. Delmelle, University of North Carolina at Charlotte  
**4:40** Regina Obilie Amoako-Sakyi\*, University of Cape Coast; Kwabena Koforobour Agyemang, University of Cape Coast; Prince Kwame Odame, University of Cape Coast, *Correlates of distance to school: a case study of school pupils' journey to school in the cape Coast metropolis of Ghana.*  
**5:00** Amber Blum\*, West Chester University of Pennsylvania, *Walkability Analysis in Philadelphia County.*  
**5:20** David Vale\*, CIAUD, Faculty of Architecture, University of Lisbon; Cláudia M. Viana, CIAUD, Faculty of Architecture, University of Lisbon, *Measuring polygon-based variables contained in floating catchment areas: revealing errors associated with different methodologies.*  
**5:40** Peng Jia\*, University of Twente - ITC; Fahui Wang, Louisiana State University; Imam Xierali, Association of American Medical Colleges; Yushan, Inner Mongolian Key Laboratory of Remote Sensing and GIS, Inner Mongolia Normal University, *Delineating hierarchical hospital service areas - a pilot study in Florida.*  
 Discussant(s): Michael J. Widener, University of Toronto

### 1693. **Exploring Built Environment Transitions in Legacy Cities Using GIS and Geospatial Technology 2 (Sponsored by Urban Geography Specialty Group, Economic Geography Specialty Group)**

**Room:** *Orleans, Marriott, Fourth Floor* (Paper Session)  
 ORGANIZER(S): Joseph Danko, University of Connecticut; George C. Bentley, Framingham State University  
 CHAIR(S): George C. Bentley, Framingham State University  
**4:40** Shengyuan Zou\*, University at Buffalo, *Vacant House Detection using Remote Sensing Image in Buffalo City,*

*New York.*

**5:00** Richard Casey Sadler, PhD\*, Assistant Professor, Michigan State University; Jesenia M Pizarro, PhD, Associate Professor, Arizona State University; Brandon Turchan, Doctoral Student, Rutgers University; Edmund McGarrell, PhD, Professor, Michigan State University, *Is the grass getting greener on the wrong side of the tracks? Using emerging hot spot analysis to uncover relationships between greening and crime over time.*

**5:20** Joseph Chestnut\*, George Washington University, *From Rails to Riches: Examining the Planning of The Washington Metropolitan Area Transit Authority and Transit Oriented Development.*

**5:40** Zhenzhen Zhang\*, University of Michigan, *Enhancing connectivity through multifunctional green corridors in Detroit.*

**6:00** Emily S. Thompson\*, Department of Geography and Environmental Sustainability, University of Oklahoma; Kirsten de Beurs, Ph.D., Department of Geography and Environmental Sustainability, University of Oklahoma, *Mapping land cover change in rust belt shrinking cities with LIDAR and GIS.*

### 1694. **Environmental Justice Dimensions of Urban Greening 3: Contestations and complications in the resistance against green injustices (Sponsored by Regional Development and Planning Specialty Group, Urban Geography Specialty Group)**

**Room:** *Hyannis, Marriott, Fourth Floor* (Paper Session)  
 ORGANIZER(S): Hamil Pearsall, Temple University; Isabelle Angelovski, Universitat Autònoma de Barcelona; Troy D. Abel, Western Washington University  
 CHAIR(S): Jonah White, Michigan State University  
**4:40** Erin Goodling\*, Portland State University, *Grassroots Resistance in the Sustainable City: Contamination, Cleanup, and Collective Action in the Portland Harbor.*  
**5:00** Hamil Pearsall\*, Temple University, *Vacant lot redevelopment, contested green space loss, and the new version of a "green" Philadelphia, Pennsylvania.*  
**5:20** Manisha Anantharaman\*, Saint Mary's College of California, *The politics of inclusion in cleaning and greening Bangalore, India.*  
**5:40** Sabrina Roseleana Paskewitz Drew, Ohio University, *Just Sustainable Enough? Avoiding Ecological Gentrification in Cleveland.*  
**6:00** Betsy Breyer\*, University of Illinois, *Urban greening as settler environmentalism: Vacant land re-use, racialized conflict, and aesthetic dimensions of environmental racism in Cleveland, Ohio.*

### 1695. **Unraveling Urban Property Norms, Practices, and Imaginaries 3: Community Land Trusts**

**Room:** *Falmouth, Marriott, Fourth Floor* (Paper Session)  
 ORGANIZER(S): Olivia R. Williams, Florida State University Dept of Geography; Kenton Card, University of California - Los Angeles; Joseph Pierce, FSU  
 CHAIR(S): Kenton Card, University of California - Los Angeles  
**4:40** Joseph Pierce, Ph.D.\*, FSU; Olivia Williams, FSU; Richard Kruger, Clark University; James DeFilippis, Ph.D., Rutgers University; Deborah Martin, Ph.D., Clark University, *"Grow or Die" Until "Too Big to Fail?" Effects of Organizational and Geographical Scale for Community Land Trusts..*  
**5:00** Richard Kruger\*, Clark University; Olivia R. Williams\*, Florida State University Dept of Geography; Joseph Pierce, PhD, Florida State University; James DeFilippis, PhD, Rutgers University; Deborah G. Martin, PhD, Clark University, *The production of "community" in community land trusts in the Twin Cities.*  
**5:20** Jakob Schneider\*, The Graduate Center, City University

# TUESDAY, April 5 • 4:40 PM - 6:20 PM • 1600

of New York, *Spaces of (Im)Possibility: Enacting Property in the Wake of the Foreclosure Crisis*.

- 5:40** Sabine Horlitz\*, Humboldt-Universität Berlin, *Strategies of Decommodification. A Comparison of the US Community Land Trust and the German Tenement Syndicate Model*.

- 6:00** Christopher Niedt\*, Hofstra University, *The Suburban World Turned Upside-Down?: Redefining Suburban Property, Homeownership, and Space in New Jersey and New York*.

**1696. Mountain Connectivity: Conservation and Development (Sponsored by Biogeography Specialty Group, Cultural Geography Specialty Group)**

*Room:* Maine, Marriott, Fifth Floor (Paper Session)

ORGANIZER(S): Swetha Peteru, Texas A&M University

CHAIR(S): Swetha Peteru, Texas A&M University

- 4:40** John J. Metz\*, Northern Kentucky University, *Thirty Years of Change at an Upper Elevation Village of West-Central Nepal*.

- 5:00** Mark Richard Welford\*, Georgia Southern University, *The ongoing collapse of Antisana Ecological Reserve large-bodied avian community*.

- 5:20** Narayan Prasad Bhusal\*, Tribhuvan University, Kathmandu, Nepal, *Contribution of Tourism on Buffer Zone Management in Protected Areas of Nepal*.

- 5:40** Jennifer K. Lipton, PhD\*, Central Washington University, *Conservation Corridors and Communities in Dynamic Mountain Environments*.

- 6:00** Swetha Peteru\*, Texas A&M University, *Linking biodiversity changes to management practices in an agroforestry system*.

**1697. Hazards and GIScience - III (Sponsored by Geographic Information Science and Systems Specialty Group, Spatial Analysis and Modeling Specialty Group, Cartography Specialty Group)**

*Room:* Massachusetts, Marriott, Fifth Floor (Paper Session)

ORGANIZER(S): Bandana Kar, University of Southern

Mississippi; Tom Cova, University of Utah; Michael E. Hodgson, University of South Carolina

CHAIR(S): Bandana Kar, University of Southern Mississippi

- 4:40** Kelly Sims\*, Oak Ridge National Laboratory; Eric Weber, Oak Ridge National Laboratory; Amy Rose, Oak Ridge National Laboratory, *Fusing national facility data with parcel data to map daytime subpopulations in the USA*.

- 5:00** Jennifer Bauer\*, National Energy Technology Laboratory; Kelly Rose, National Energy Technology Laboratory; D. Vic Baker, MATRIC; Aaron Barkhurst, MATRIC, *Big Data, Big Uncertainty - Taming Uncertainty in Big Data Spatio-Temporal Analytics with the Variable Grid Method*.

- 5:20** Angela Marcela Suarez\*, University of California - Santa Barbara, *Using spatio-temporal data to enrich thematic clustering of Twitter reports of extreme weather events*.

- 5:40** Bandana Kar\*, University of Southern Mississippi, *Crowdsourcing to Citizen Science - Assessing Big Data Relevance for Situation Awareness*.

**1698. From sustainable to critical transport studies: a global perspective V**

*Room:* New Hampshire, Marriott, Fifth Floor (Paper Session)

ORGANIZER(S): Wojciech Koblowski, Vrije Universiteit Brussel

CHAIR(S): Wojciech Koblowski, Vrije Universiteit Brussel

- 4:40** Jieun Lee, PhD\*, Farmingdale State College - SUNY; Igor Vojnovic, PhD, Michigan State College; Sue Grady, PhD, Michigan State College, *Just Access, Motherhood, and the Car*.

- 5:00** Michele Colley\*, University of Toronto - Mississauga; Ron Buliung, Dr., University of Toronto - Mississauga, *Gender Differences in the Work Commute over Time and Space in Toronto, Canada*.

- 5:20** Lily K Song, Ph.D.\*, Harvard University; Mariel Elena Kirschen, University of Pennsylvania; John Taylor, Yayasan Kota Kita, *Women on wheels: Gender-class intersectionality, cycling, and sustainable urban transport*.

- 5:40** Cyrille Médard De Chardon, PhD, MSc\*, University of Luxembourg, *Peaking bike-share to move forward: A critical analysis on bike-share purposes and outcomes*.

- 6:00** Samuel Mössner\*, University of Münster; Byron Miller, University of Calgary, *Cycling along the social divides: sustainable urban planning and social conflict in North-American and European cities*.

**1699. 'A început ploia': Screening a movie about forced evictions, Roma people and resistance in Bucharest (Romania)**

*Room:* Vermont, Marriott, Fifth Floor (Panel Session)

ORGANIZER(S): Michele Lancione

CHAIR(S): Victoria A. Lawson, University of Washington

Introducer: Victoria A. Lawson

Panelist: Michele Lancione



## TUESDAY, April 5 • 6:30 PM - 8:30 PM • 1700

**1736. AAG Annual Meeting Opening Session**

*Room: Ballroom B, Hynes, Third Level*

Welcoming Remarks: **Douglas Richardson**, American Association of Geographers

**Presidential Plenary: "Geographies of Bread and Water in the 21st Century" – Plenary Session**

Organizer and Moderator: **Glen M. MacDonald**, University of California - Los Angeles

Panelists:

**Ruth DeFries**, Columbia University;

**Peter Gleick**, Pacific Institute

Discussants:

**Laura-Anne Minkoff-Zern**, Syracuse University;

**William G. Moseley**, Macalester College

Burgeoning global population along with increasing appetite for high-protein or resource demanding food choices may double demands on world agriculture by 2050. At the same time groundwater depletion and climate change are negatively impacting the availability of sufficient water to meet agricultural and domestic freshwater demands in many regions. Compounding these challenges are socioeconomic forces, including armed conflicts and state collapse that negatively affect agricultural productivity, food transference and water resources. The challenges to food and water security over the 21st century represent an increasing and potentially existential threat to global society. These issues are fundamentally geographical in nature and should form a central research and educational focus of geography.

*Presenting author(s) are indicated with an asterisk (\*).*

*For special events, please see the Special Events & Meetings Summary on pages 60-66.*

*For the Key to Session Numbers & Room Numbers, please see pages 96-97.*

**Download the AAG 2017 Mobile App for**  
*iOS, Android and Blackberry*



## THURSDAY, April 6 • Poster Sessions

### GIS and Technology Poster Session - Featured Session

Room: Hall C, Hynes, Second Floor (Poster Session)

Poster setup: 7:30 a.m. - 8:00 a.m.

Poster display and discussion: 8:00 a.m. - 11:40 a.m.

Melanie Grace Brown\*, Furman University, *Poster #001:*

*Mapping the Impacts of Urbanization on Ecosystem Services.*

Wanhee Kim\*, *Poster #002: The spatial distribution of economies in Korea in terms of GRDP-using dasymetric mapping.*

Victoria Yeager\*, Slippery Rock University; Trevor Chambers, Slippery Rock University; Jack Livingston, Ph.D, Slippery Rock University; Xianfeng Chen, Ph.D, Slippery Rock University, *Poster #003: Temporal Land Cover Analysis in Xinjiang Uighur Autonomous Region, China.*

Sue C. Grady, PhD, MPH\*, Michigan State University; Libbey Kutch, PhD Candidate, Michigan State University; Qiong Zhang, MA, Michigan State University; Paige Gebhardt, BA, Michigan State University, *Poster #004: Geocoding Missing Data: A Hopeful Solution for Public Health Research.*

Manuel E. Mendoza, Dr.\*, Centro de Investigaciones en Geografía Ambiental, Universidad Nacional Autónoma; Teodoro Carlón Allende, Dr., Instituto de Investigaciones en Ecosistemas y Sustentabilidad, Universidad Nacional Autónoma de México; Huilin Gao, Dr., Texas A&M University Zachry Department of Civil Engineering, Texas; Erna Martha López Granados, Doctor, Instituto de Investigaciones en Ciencias de la Tierra, Universidad Michoacana de San Nicolás de Hidalgo, *Poster #005: Identifying future climatic change patterns at basin level in Baja California.*

Thomas Smith\*, Clark University, *Poster #006: Analysis of Global and Regional (Biome Specific) Trends in Vegetation Productivity using AVHRR NDVI-3g data from 1982 - 2015..*

Will Heikes\*, Clark University, *Poster #007: Media Underreporting and Disasters: A GIS analysis of traditional and social media response to the 2016 Louisiana Flooding disaster.*

Joann Zadrozny\*, Texas State University; Caroline McClure, Texas State University; Jinhee Lee, Texas State University; Injeong Jo, Texas State University; Liling Qin, East China Normal University, *Poster #008: Designs, Techniques, and Reporting Strategies in Geography Education: A Review of Methods.*

John D. Frye\*, University of Wisconsin-Whitewater; Megan Matheus, University of Wisconsin - Whitewater, *Poster #009: An Analysis of Near Misses for Tornado and Severe Thunderstorm Warnings across the United States from 2008-2015.*

Jamey Voorhees\*, University of Arkansas, *Poster #010: The Bicycle as a Data Collection Platform: Using Non-commercial Grade Devices to Capture Georeferenced Data at a Lower Cost.*

Yanyu Zhang\*, Yanyu Zhang, China Land Surveying and Planning Institute; Xudong Guo, China Land Surveying and Planning Institute; Meijing Chen, China Land Surveying and Planning Institute, *Poster #011: China Land System Observation and Research Network: Towards Scientific Understanding of Land System.*

Yanfang Liu\*, School of Resource and Environmental Science, Wuhan University; Qingsong He, School of Resource and Environmental Science, Wuhan University, *Poster #012: Modeling different urban growth patterns based on the evolution of urban form: A case study from Huangpi, Central China.*

Xu Wang\*, *Poster #013: Stream network modeling using remote sensing data in an alpine cold area.*

Peter Kimosop, Dr.\*, Youngstown State University; Christian

Bennett, Youngstown State University; Alex Cifra, Youngstown State University; Mark Cooper, Youngstown State University; Jacob Miller, Youngstown State University; Nathan Romeo, Youngstown State University, *Poster #014: Hydrologic Modeling of the Yellow Creek Watershed using the SWAT Model.*

Ryan Keeney, Master's Student\*, University of Denver, *Poster #015: Denver's Streetcar Legacy and its Role in Neighborhood Walkability.*

Jessica Fittrakis\*, Saginaw Valley State University; Andrew J Miller, Ph.D., Saginaw Valley State University; Evelyn Ravuri, Ph.D., Saginaw Valley State University, *Poster #016: Measuring the Effect of HHR Demolitions on Crime Rate in Greater Saginaw.*

Xiaomin Qiu\*, Missouri State University; Shuo-Sheng Derek Wu, Missouri State University, *Poster #017: The Geographically Varying Effects of Factors of Student Math Proficiency for Missouri Elementary Schools.*

McNichol Kitavi Kaloki\*, Miami University, *Poster #018: Mapping the status of vegetation change in Lake Nakuru National Park in Kenya.*

Shannon R. McCarragher, Ph.D.\*, University of Tennessee at Chattanooga; Mark Bramstedt, Resource Soil Scientist, USDA Natural Resources Conservation Service, Morris, IL; Michael Konen, Ph.D., Northern Illinois University, *Poster #019: Creating a County-wide Wetland Mapping/Planning Tool in Cropland Areas for Interagency and Educational Use..*

Alexandra White\*, Keene State College, *Poster #020: M&Ms: Mapping & Mathematics.*

Ling Bian\*, SUNY- Buffalo, *Poster #021: Characterizing static-dynamic sensor-target pairs.*

Tom Shoberg\*, United States Geological Survey, *Poster #022: Consistency metric for integrating Biodiversity data (BISON) with data from The National Map and digital geologic data..*

Xiaoxu Wu\*, Beijing Normal University; Xiaofan Yang, Beijing Computational Science Research Center; Zhongquan Charlie Zheng, University of Kansas; Xueyong Zou, Beijing Normal University; Chunlai Zhang, Beijing Normal University; Zhenglun Wei, University of Kansas, *Poster #023: Numerical simulation of optimal structural parameters for wind barriers to reduce sand-blown disasters.*

Ugochukwu Francis Umeokafor\*, Texas State University - San Marcos; Yihong Yuan, Texas State University, *Poster #024: Predicting International Travel Destinations from Geotagged Photos..*

Yunliang Meng\*, Central Connecticut State University, *Poster #025: Using GIS to Detect Racial Disparity in Police Stops in Toronto.*

Ashley G. Benitez-Ou\*, University of Puerto Rico - Cayey; Javier A. Arce-Nazario, University of Puerto Rico - Cayey, *Poster #026: Analyzing Roads Length as a Proxy for Impervious Areas Utilizing Spatial Analysis and Statistical Programs.*

Emma Freud\*, Clark University; John Rogan, Ph.D, Clark University; Deborah Martin, Ph.D, Clark University, *Poster #027: Socio-spatial inequity of urban tree canopy: implications for urban and community forestry in Worcester, Massachusetts.*

Darcy Ayers\*, University of Tennessee, *Poster #028: Validating Geospatial Analysis with Community Risk Perception Survey in Big Island, Hawaii.*

Roberto Devoto\*, Università Ingegneria Cagliari; Roberto Devoto, Università di Cagliari, *Poster #029: Pattern recognition adaptive dynamic neural network model for aircraft noise generated in airport urbanized area..*

Seonggook Moon\*, Kyung Hee University; Sung-Jin, Cho, Hasselt University; ChulSue, Hwang, Kyung Hee University, *Poster #030: Exploring study of estimating*

## THURSDAY, April 6 • Poster Sessions

- individual activity sequences using personal blog posts.*  
 Alex Korhorn\*, Saginaw Valley State University; Evelyn Ravuri, Ph.D., Saginaw Valley State University; Andrew J. Miller, Ph.D., Saginaw Valley State University, *Poster #031: Estimating the Value of Crime Rate and HHR Demolitions on the Housing Market of the Greater Saginaw, MI Region..*
- Rishi Singh\*, Clark University Graduate School of Geography; John Rogan; Deborah G. Martin; Arthur Elmes, *Poster #032: Modeling ecosystem services of juvenile trees in Massachusetts using i-Tree Eco.*
- Samantha T. Arundel, Ph.D.\*, Center of Excellence in Geographic Information Science - U.S. Geological Survey, *Poster #033: Validating Continental United States terrain elements automatically-derived from the U.S. Geological Survey 1/3 arc-second seamless layer with Geographic Names Information System terrain types.*
- Joel M. Barker\*, South Dakota State University, *Poster #034: MODIS NDVI/EVI and Landsat NDVI DV Numbers Imply Predictable Range of Hopkins' Law of Phenology for Derived First Day of Spring.*
- Shirin Esmaeili\*, Clark University, *Poster #035: Monitoring and Forecasting Shifting Climate and Land Change Impacts in Peru's Parque de la Papa for Enhanced Agricultural Management.*
- InSu LEE\*, Spatial Information Research Institute, Korean Land And Geospatial Informatix Corp.; JunSeok LEE, Spatial Information Research Institute, Korean Land And Geospatial Informatix Corp.; HyeonDeok KIM, Spatial Information Research Institute, Korean Land And Geospatial Informatix Corp., *Poster #036: Automatic Data Processing Model for Mapping the Storm and Flood Premium Rate - Focused on Hazard Map -.*
- Papia Faustina Rozario, PhD Candidate\*, North Dakota State University, *Poster #037: Uncertainty Analysis of Spatial Autocorrelation of Landuse and Landcover Data.*
- Yang Ju\*, Department of Geography, Texas A&M University, *Poster #038: Fractional Snow-Cover Mapping through Polytopic Vector Analysis of MODIS Spectral Reflectance.*
- Zhanlong Chen\*, Department of Information Engineering, China University of Geosciences, Wuhan, China; Li Yin, Department of Urban and Regional Planning, The State University of New York at Buffalo; Zhong Xie, Department of Information Engineering, China University of Geosciences, Wuhan, China; Liang Wu, Department of Information Engineering, China University of Geosciences, Wuhan, China, *Poster #039: Shape Similarity Measurement Model for Holed Polygons Based on Position Graph and Fourier Descriptors.*
- Darcy L. Boellstorff\*, Bridgewater State University; Ninoska J. Herrera\*, Bridgewater State University, *Poster #040: Investigation of the Impacts of Ground Sampling Distance on Image Statistics.*
- WENJIE SUN, Ph.D.\*, Carthage College, *Poster #041: Applications of Web and Mobile GIS in Service Learning Projects, Study Tours and Field Methods Class.*
- Weixin Zhai\*, University of North Carolina - Charlotte; Jun Geng, Insititute of Electrics, Chinese Academy of Science; Yubo Yang, Insititute of Electrics, Chinese Academy of Sciences; Chengqi Cheng, Peking University, *Poster #042: Research on Continuity of Multi-scale Space-filling Curves.*
- Heather Coulson\*, Stockton University; Rebecca Hilbert, Stockton University; Richard Fayrer-Hosken, Ph.D., San Diego Zoo Institute for Conservation Research; Andrea Presotto, Ph.D, Stockton University, *Poster #043: Remote sensing analysis of land cover and speed of travel in African elephants.*
- Chen Feng\*; Zhengsong Lin; Lu Zhang, *Poster #044: An Effect Evaluation of the Predictive Open Communities based on Simulation Techniques ? A case study of Traffic Congestion in Wuhan.*
- Anusha Sharma Kasturi\*, SUNY - Buffalo; Boyang Liu, SUNY - Buffalo; Jared Aldstadt, SUNY - Buffalo; Ling Bian, SUNY - Buffalo, *Poster #045: Mapping gang territory and emerging hotspots of shootings.*
- Darsys Aguero, Degree in meteorology, *Poster #046: Precipitation rate estimation with weather radar MXPOL polarimetric variables..*
- Jinxia Zhu\*, *Poster #047: One class of land use/ land cover change detection using object-based change vector analysis.*
- Bruce Millett\*, South Dakota State University, *Poster #048: Comparing Light Detection And Ranging (LIDAR), Total Station Survey (TSS) and Structure from Motion (SfM) on a Small Farm.*
- Jeong Chang Seong\*, University of West Georgia, *Poster #049: Analysis of Spectral Reflectances of Microcystis Aeruginosa.*
- Mbongowo Joseph Mbuh, PhD\*, University of North Dakota, *Poster #050: Optimization of Airborne Real-time Cueing Hyperspectral Enhanced Reconnaissance (ARCHER) imagery, in-situ data with chemometrics to evaluate nutrients in the Shenandoah River, Virginia.*
- LiBin Qi\*; XiaoJuan Li, *Poster #051: An analysis and simulation model for urban flash flood inundation based on real-time crowdsourcing data.*
- Xiaoqian Liu\*, Institute of Geographical Sciences and Natural Resources Research; Pei Tao, Chinese Academy of Science, *Poster #052: System dynamic modelling of the development and transition in coal resource based city under multiple adaptive scenarios.*
- Aideen Maria Foley\*, Birkbeck, University of London; Ilan Kelman, University College London, *Poster #053: Extreme precipitation statistics in regional climate models: Evaluation for the islands of Scotland.*
- Joni Downs Firat\*, University of South Florida, *Poster #054: Testing wildlife home range estimators using an agent-based model.*
- ALI Abdullah ALDOSARI, PhD\*, King Saud University, *Poster #055: Using GIS and remote sensing to map the habitats of protected area; Oroug Bani M'arad, Saudi Arabia..*
- Leo Harry Meirose, III, Mr. \*, University of South Florida Saint Petersburg; Barnali Dixon, Dr., University of South Florida Saint Petersburg; Christopher A. Brown, Dr., Worcester Polytechnic Institute, *Poster #056: Examining the Effects of DEM Resolution and Fractal Dimension on Slope Characterization and Soil Erosion in the Rio Fajardo Watershed, Puerto Rico.*
- Candice Luebbing\*, American Association of Geographers; Jolene Keen, American Association of Geographers, *Poster #057: GeoMentors: A Nationwide Volunteer Network Supporting GIS and Geography in K-12 Education.*
- Asween Marco, BDS, MPH\*, University of Arkansas; Jess C Porter, Ph.D., University of Arkansas at Little Rock, *Poster #058: Oral Health Access in Arkansas.*
- Jennifer Hanauer Lumpkin\*, Sinclair Community College; Michael Atkinson, Sinclair Community College; Amanda Browne, Sinclair Community College; Christopher A. Dobey-Clarke, Sinclair Community College; Jeffrey M. Dunn, Sinclair Community College; Nathan Harrington, Sinclair Community College; Kyle Kissell, Sinclair Community College; Leslie Williams, Sinclair Community College; Matthew Withum, Sinclair Community College; Bryan Wood, Sinclair Community College, *Poster #059: Where the Madmen Are: Mid-Century Modern*



## THURSDAY, April 6 • Poster Sessions

- Landmarks in Dayton, Ohio.*  
 Aaron Padilla\*, University of Northern Iowa; David Jensen, University of Northern Iowa; Jacob Sundholm, University of Northern Iowa, *Poster #060: Thermal Remote Sensing of Jensen Lake: Investigating Spatial Heterogeneity of Water Surface Temperature.*
- Jordan R. Cissell\*, University of Alabama; Michael K. Steinberg, Ph.D., University of Alabama, *Poster #061: Integrating Landsat Imagery with Local Knowledge to Map Twenty Years of Mangrove Cover Trends in Ciénaga de Zapata, Cuba.*
- Amal Himayid Aljaddani, A doctoral student\*, Texas Tech University, *Poster #062: Application of Univariate NDI differencing in Deforestation Monitoring: A Case Study of the Southwest Region of the Amazon Tropical Rainforest between 1985, 1986, and 2016.*
- Dorothy K. Hall, Ph.D.\*, Michigan State University; George A. Riggs, Ph.D., SSAI; Nicolo E. DiGirolamo, SSAI; Miguel O. Roman, Ph.D., NASA/Goddard Space Flight Center, *Poster #063: Development of a climate-data record of snow cover using MODIS and VIIRS snow maps.*
- Yulong Zhang\*, University of North Carolina - Chapel Hill; Conghe Song, University of North Carolina - Chapel Hill; Lawrence E. Band, University of North Carolina - Chapel Hill; Ge Sun, USDA Forest Service; Junxiang Li, East China Normal University, *Poster #064: How is the Earth Greening? An update based on recent satellite measurements.*
- Andrew J. Miller, Ph.D.\*, Saginaw Valley State University; Dan Johnson, Saginaw Valley State University; James Bowers, Ph.D., Saginaw Valley State University; Ashley Oakes, Saginaw Valley State University, *Poster #065: Development of a Priority Policing Response Evaluation Technique.*
- Cassidy C. McGrane\*, usfsp, *Poster #066: Environmental Justice Analysis: Environmental Hazards and Greenspaces.*
- Brent C. Hedquist, Ph.D.\*, Texas A&M University-Kingsville; Mukti Subedi, MS, Texas A&M University-Kingsville, *Poster #067: Creating a GIS Database for Documentation and Preservation of Historical Structures at Rancho La Union, Zapata County, Texas.*
- Israr Albar\*, DG of Climate Change, Ministry of Environment and Forestry, Indonesia; I Nengah Surati Jaya, Faculty of Forestry, Bogor Agricultural University, Bogor, Indonesia; Bambang Hero Saharjo, Faculty of Forestry, Bogor Agricultural University, Bogor, Indonesia; Budi Kuncahyo, Faculty of Forestry, Bogor Agricultural University, Bogor, Indonesia; Erianto Indra Putra, GSCE, South Dakota State University, Brookings, South Dakota, USA; Mark A. Cochrane, GSCE, South Dakota State University, Brookings, South Dakota, USA, *Poster #068: Spatio Temporal Typology of Land and Forest Fire in Sumatra.*
- Dudley Bonsal\*, James Madison University, *Poster #069: Influence of modified temporal resolution and event weighting on an aircraft noise exposure model.*
- Thomas James Vogel\*, East Carolina University, *Poster #070: Prisons and Pollutant Plumes: A Spatial Analysis of Prison and LULU Coexistence.*
- Nakisha Jones\*, East Tennessee State University; Andrew Joyner, Ph.D., East Tennessee State University, *Poster #071: Spatial Analysis of Crime in Five New York Boroughs Before & After Hurricane Sandy: Is there Calm after the Storm?*
- Desislava Stefanova\*, Ryerson University; Tor Oiamo, Ph.D., Ryerson University, *Poster #072: Scenario analysis: Modelling the impact of urban vegetation on levels of noise annoyance in city of Toronto.*
- Danielle C.L. Sadakhom\*, Ryerson University; Tor Oiamo, Ph.D., Ryerson University, *Poster #073: Assessing Urban Health Simulation Outcomes Through Concentration Response Functions at the Census Tract Level.*
- Christopher A. Hood\*, The University of Akron, *Poster #074: Patterns in Opioid Related Overdoses in Barberton, OH.*
- Eunmok Lee\*, Miami University Of Ohio, *Poster #075: Applying different statistical methods in studying MODIS 250 m NDVI for Crop Separability.*
- Megan Maloney\*, Appalachian State University; Jessica Mitchell, Ph.D., Appalachian State University, *Poster #076: Sagebrush nitrogen mapping: optimization methods for high resolution airborne remote sensing.*
- Austin Ray Bragert\*, Kansas State University, *Poster #077: Time Series Analysis of Phenometrics and Long-Term Vegetation Trends for the Flint Hills Ecoregion using Moderate Resolution Satellite Imagery.*
- Kristen Jurica\*, University of Texas - Austin; Kalli Doubleday, M.A., University of Texas - Austin; Kelley Crews, Ph.D., University of Texas - Austin; Amelia Sosnowski, M.S., University of Texas - Austin; Thoralf Meyer, Ph.D., University of Texas - Austin, *Poster #078: Agent-Based Modeling of Human-Cattle Conflict in the Okavango Delta, Botswana.*
- Josh Pitts, Boston University; Junlin He\*, Boston University; Sucharita Gopal, Boston University; Les Kaufman, Boston University; Irit Altman, Boston University; Roel Boumans, The Frederick S. Pardee Center for the Study of the Longer-Range Future, *Poster #079: FEWS Modeling for Peoples at Risk on Biodiverse Landscapes: Tonle Sap, Cambodia.*
- Anna Klimaszewski-Patterson\*, University of Nevada, Reno; Scott Mensing, Ph. D., University of Nevada, Reno; Peter Weisberg, Ph. D., University of Nevada, Reno; Robert Scheller, Ph. D., Portland State University, *Poster #080: Paleolandscapes modeling of pre-Columbian anthropogenic fire regimes in the southern Sierra Nevada, California.*
- Jerad Anderson\*, Idaho State University; James Guilinger, Idaho State University; Graham Meese, Idaho State University; Benjamin T Crosby, Ph.D., Idaho State University, *Poster #081: Visualizing land use and water quality using location-based photography: a river kayak survey of Marsh Creek, Bannock County, Idaho.*
- Kevin J. Mercy, University of Southern California; Nolan Luevano, California State University-Dominguez Hills; SU JIN LEE\*, University of Southern California; Lynn Dodd, University of Southern California, *Poster #082: A comparison of hydrology and terrain parameters for springs.*
- Leila Donn\*, University of Texas at Austin; Timothy Beach, Ph.D., C. B. Smith, Sr., Centennial Chair, University of Texas at Austin, *Poster #083: LiDAR and Field-Based Investigation of Long-Term Human-Environmental Interaction in the Belize-Guatemala Transboundary Area.*
- Lifang Chen\*, Peking University; Zehao Shen, Peking University, *Poster #084: Distribution and determinants of lower treeline in dryvalley, Southwest China.*
- Mingzheng Yang\*, Zehao Shen, *Poster #085: Precipitation dominates the variation of alpine treeline elevation in the parallel mountain ranges of southeast Tibet Plateau, China.*
- Barry Scott Matinez\*, California State University - Los Angeles, *Poster #086: Changing Characteristics of Observable Precipitable Water in the Middle to Lower Troposphere via the Atmospheric Infrared Sounder.*
- Rob Edsall\*, Idaho National Laboratories, *Poster #087: Geographic Considerations in Cyber Security: Modeling Physical Controls and Dependencies.*
- Christopher Douglas Stanton\*, Indiana State University, *Poster #088: Archaeological Implications of Using 3D*



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- Analysis in ArcGIS Applications.*  
Yousef Khajavigodellou\*, Author; Halaleh Daraei, Author;  
Ziba Zarrin, Author, *Poster #089: Optimizing Raster  
- Vector Simulation Machine for Land Use Changes  
Modeling: New Approach to Urban Modeling.*
- Tanner Dale Osing\*, Augustana College, *Poster #090: Addressing  
Childhood Lead Poisoning with GIS: A proactive  
approach in Scott County, Iowa.*
- Rachel Michelle Grap\*, East Tennessee State University; Cayla  
Cannon, East Tennessee State University; Jana  
Archer, East Tennessee State University, *Poster #091:  
Geopolitical Service Area Analysis of Washington  
County, Tennessee.*
- William Lewis Elkins\*, University of Alabama, *Poster #092:  
Analysis of the Impact of a Proposed Highway  
Expansion on Urban Sprawl Using a Remote Sensing  
and GIS-Based Cellular Automata Urban Growth  
Model.*
- Emily Alyssa Niederman\*, Stetson University; Adam Carr,  
University of Florida; Crystal Goodison, University  
of Florida; Paul Zwick, PhD, University of Florida;  
Jason Michael Evans, PhD\*, Stetson University, *Poster  
#093: Utilizing GIS-Based Models, Hazus-MH and Sea  
Level Affecting Marshes Model (SLAMM), to Identify  
Floodplain Conservation Areas for Coastal Hazards.*
- Martin Paz, MS\*, Geography Dept., University at Buffalo;  
Tammy Milillo, Research Assistant Professor,  
Chemistry Dept., University at Buffalo, *Poster  
#094: Applying Geostatistical Modeling to Aide  
in Remediation and Source Apportionment of  
Eighteenmile Creek, Lockport, NY.*
- Mamadou Y S Coulibaly\*, University of Wisconsin Oshkosh;  
Jennifer Haegele, Southern Illinois University,  
Carbondale; Adam Dorn, City of Oshkosh, Wisconsin,  
*Poster #095: Assessing the Limits of FEMA Flood  
Maps in an Urban Setting.*
- David Rickless\*, University of Georgia, *Poster #096: Towards  
Participatory Mapping Praxis: Operationalizing  
Community GIS in Athens, GA.*
- Daniel Block, Chicago State University; Tekleab S. Gala\*,  
Chicago State University, *Poster #097: GIS for  
Studying a Proposed Expanded Commuter Rail Station  
and effects on Chicago State University's Commuters.*
- Madden P Bremer\*, Salem State University, *Poster #098:  
Carlisle, PA: A Study of Land Use Change.*
- Yulun Zhou\*, The Chinese University of Hong Kong; Bo Huang,  
The Chinese University of Hong Kong, *Poster #099:  
Urban neighborhood vibrancy and its association with  
the urban physical environment: An investigation using  
multi- source big spatial data.*
- Anthony M. LaVerde\*, Salem State University, *Poster #100:  
GIS Analysis of Emergency Response Call Times in a  
Suburban Community.*
- Lucas Bena Boakye\*, Chicago State University, *Poster #101:  
Wildfire In Southern California.*
- Shenjun Yao\*, Key Laboratory of Geographic Information  
Science (Ministry of Education), East China Normal  
University; Jie Zhu, Key Laboratory of Geographic  
Information Science (Ministry of Education), East  
China Normal University, *Poster #102: Integrating  
floating car and Lidar data in analyzing traffic safety  
in Shanghai, China.*
- Tirzha Marie Zabarauskas\*, University of Colorado - Denver,  
*Poster #103: Crime in Denver County: A spatial and  
temporal analysis of 2015 crime incidents.*
- Tyler Jones, M.S\*, PhD Candidate, Auburn University; Luke  
Marzen, PhD, Professor, Auburn University; Art  
Chappelka, PhD, Professor, Auburn University, *Poster  
#104: Mapping, Modeling, and Estimating Urban Tree  
Metrics Using Terrestrial LiDAR Scanning (TLS).*
- CHIH-YUAN CHEN\*, Department of Geography, Chinese  
Culture University; YEN-HUI TSAI, Department of  
Geography, Chinese Culture University, *Poster #105:  
Space-Time Analysis of Baseball.*
- Adeline Li, Undergraduate Student\*, Furman University;  
Suresh Muthukrishnan, Furman University, *Poster  
#106: Assessing Solar Energy Potential for Existing  
Buildings in Greenville County, South Carolina.*
- Jacob Workman Milchuck, Undergraduate Student\*, Furman  
University; Suresh Muthukrishnan, Furman University,  
*Poster #107: Do Green Spaces Increase Property  
Values? A Case Study from Greenville, South Carolina  
(USA).*
- Andrew Brown\*, Pennsylvania State University, *Poster #108:  
Recession of the Ampatuni and Ausangate Glaciers in  
Peru.*
- Benjamin Scott Kraushaar\*, University of Wyoming, *Poster  
#109: Remote Sensing of the Snowy Range Lakes: A  
satellite-based Approach to Monitoring Quaternary  
Environmental Change in Sub-Alpine Lakes.*
- Morgan Crowley\*, McGill University; Prof. Jeffrey A Cardille,  
McGill University; Benjamin M Sleeter, USGS, *Poster  
#110: A continuous record of forest change in the Puget  
Sound over 40 years.*
- Franchesca Mireku\*, The University of Akron, *Poster #111:  
Analysis Of Urban Vegetation Change In Greater  
Accra Metropolitan Area: A Remote Sensing And Gis  
Approach.*
- Daniel P. Carver\*, University of Colorado Denver; Rafael  
Moreno, Dr., University of Colorado Denver; Juan  
Manuel Torres Rojo, Dr, Centro de Investigacion  
y Domenci Economicas; Galen Maclaurin, Dr,  
University of Colorado Denver; Peter Anthamatten  
, Dr., University of Colorado Denver, *Poster #112:  
Assessment of the representational accuracy of  
Globelnd30 classification of the temperate and  
tropical forests of Mexico..*
- Andrea Lamper\*, Plymouth State University; Casey Songin,  
Plymouth State University, *Poster #113: Uncovering  
the Past Landscape of Central New Hampshire: Field  
Protocol for Assessing Stonewalls digitized using  
LiDAR-derived Products.*
- Bishwa Bandhu Sapkota\*, University of Arkansas at Monticello;  
Lu Liang, University of Arkansas at Monticello, *Poster  
#114: An Approach to Classify Leaf-on and Leaf-off  
trees on High Resolution Imagery with High Spectral  
Confusion.*
- Bailey Everett Glassford\*, University of Michigan, *Poster  
#115: Remote Sensing of Nitrogen, Phosphorus and  
Chlorophyll in Lake Erie.*
- David Szpakowski\*, Texas State University - San Marcos;  
Jennifer Jensen, Texas State University - San Marcos,  
*Poster #116: Estimating the Above-ground Biomass of  
a Pasture using SfM, Freeman Center, TX..*
- Mitchell Braget\*, Kansas State University; Douglas Goodin,  
Kansas State University; Jida Wang, Kansas State  
University, *Poster #117: A Novel Approach to Mapping  
Flooding Extent in the Chobe River Basin from 2014 to  
2016 Using A Spectral Library of Values.*
- Benjamin John Van Keulen\*, United States Geological Survey,  
*Poster #118: Landsat Collections: Providing a Stable  
Environmental Record for Time Series Analysis.*
- Jason Yang\*, Ball State University, *Poster #119: Assessing  
heat leaks in 8twelve target area of Muncie, IN using  
thermal remote sensing.*
- Kianoosh Hassani\*, Ohio University; Dorothy Sack, Ohio  
University, *Poster #120: Multispectral and  
Hyperspectral Remote Sensing of the Tule Valley  
Subbasin of Lake Bonneville, Utah.*
- Eleanor J Davis\*, University of South Carolina, *Poster #121:  
What's salt got to do with it? Salinity remote sensing of  
the Albemarle-Pamlico Peninsula in North Carolina.*
- David Jensen\*, Virginia Tech, *Poster #122: Detecting  
Landfast Ice Extent along Kotzebue, Alaska using*

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- Interferometric Synthetic Aperture Radar.*  
Michael B. Brady\*, Rutgers University, Geography, *Poster #123: Collaborative Shoreline Change Risk WebGIS Development for Alaska's Arctic Slope: An Instructional Systems Design Approach.*
- Zhiyue Xia, B.S. in Remote Sensing; M.S. in Forest Resources\*, Pennsylvania State University, *Poster #124: Spatial Analysis of Remote Sensing Phenology related to Climate and Topography.*
- Meifang Li\*, Sun Yat-sen University; Xun Shi, Dartmouth College; Xia Li, Sun Yat-sen University; Wenjun Ma, Guangdong Provincial Center for Disease Control and Prevention; Jianfeng He, Guangdong Provincial Center for Disease Control and Prevention, *Poster #125: Detecting Associations between Dengue Fever and Environmental Factors in Guangdong, China.*
- Venisse Schossler\*, UFRGS; Jefferson Cardia Simões, Universidade Federal do Rio Grande do Sul; Francisco Eliseu Aquino, Dr., Universidade Federal do Rio Grande do Sul, *Poster #126: Climate variability effects on geoindicators on the southern coast of Brazil.*
- Lifei Wang\*, Gulf of Maine Research Institute, *Poster #127: Using satellite remote sensing data to predict the spatiotemporal distributions of marine fish species in a Maximum entropy modeling framework.*
- William Tollefson\*, East Tennessee State University; Andrew Joyner, PhD, East Tennessee State University; Joseph Harris, East Tennessee State University, Louisiana State University; Jana Archer, East Tennessee State University; Hartney Deegan, East Tennessee State University; Nakisha Jones, East Tennessee State University; Kayla Rose, East Tennessee State University; Daniel O'Brien, East Tennessee State University; Andrew Worley, East Tennessee State University, *Poster #128: GIS in Hazard Mitigation Planning: The Synergistic Intersection of Interdisciplinary Research.*
- Daniel Wiese, Temple University; Victor Gutierrez-Velez, PhD, Temple University; Yohsiang Frederic Hsu\*, Temple University, *Poster #129: Environmental and Socio-economic Drivers of Aedes Albopictus Presence in SE Pennsylvania.*
- Daniel Dufour\*, First Draft GIS, *Poster #130: Accelerating Map Making with Artificial Intelligence.*
- Narcisa G. Priocpe, University of North Carolina Wilmington; Hannah Phoebe Lans Charter\*, University of North Carolina at Wilmington, *Poster #131: Three-Dimensional Visualizations of Past, Present and Future Spatially-Distributed Population Datasets.*
- Stuart K. McFeeters, Ph.D., GISP\*, California State University, Fresno, *Poster #132: Using the Normalized Difference Water Index (NDWI) within a Geographic Information System to Detect Swimming Pools for Mosquito Abatement: A Practical Approach.*
- Elaine J. Hallisey\*, U.S. Centers for Disease Control & Prevention; Eric Tai, PhD, CDC; Brian Lewis, BS, CDC/ATSDR; Grete Wilt, MPH, CDC/ATSDR; Lucy Peipins, PhD, CDC; Shannon Graham, MA, CDC/ATSDR; Barry Flanagan, PhD, CDC/ATSDR; Natasha Buchanan Lunsford, PhD, CDC, *Poster #133: A Comparison of Methods to Change Spatial Scale.*
- Ibrahim O. Alshwesh\*, Qassim University, *Poster #134: An example of applying p-median model on Dasyemetric surface to select the optimal distribution for facility locations across three case studies.*
- Suresh Muthukrishnan\*, Furman University; Mike Winiski, Furman University; Jeremy Donald, Trinity University, *Poster #135: Cross-Institutional Collaboration to Develop GIS Curricular and Knowledge Pathways for Effective and Efficient Blended Learning Delivery.*
- Yifan Wang\*, *Poster #136: Prediction of PM2.5 concentrations based on data mining method.*
- GEORGE SPREHN, MGIS\*, EarthBalance, *Poster #137: Remotely Sensed Image Classification in Bid Assessment.*
- Floyd L. Bull\*, Central Washington University; Sterling D. Quinn, Central Washington University, *Poster #138: Banned from mapping: Analyzing OpenStreetMap user blocks to understand threats to crowdsourced data quality.*
- Timothy Condon\*, Boston University, *Poster #139: A Research Coordination Network for Ecological Applications of Terrestrial Laser Scanning.*
- Jackelyn M. Seamans\*, University of Wisconsin- Eau Claire; Harry M. Jol, PhD, University of Wisconsin- Eau Claire; Thomas A. Wavrin, University of Wisconsin- Eau Claire; James S. Erickson, University of Wisconsin- Eau Claire; Alexander S. Kleinschmidt, University of Wisconsin- Eau Claire; Richard A. Freund, University of Hartford; Philip P. Reeder, Duquesne, *Poster #140: Discovering a Holocaust Era Escape Tunnel: GPR investigation at Ponar, Lithuania.*
- Xueke Li\*, Department of Geography, University of Connecticut; Chuanrong Zhang, Department of Geography, University of Connecticut; Weidong Li, Department of Geography, University of Connecticut; Kai Liu, Key Laboratory of Water Cycle & Related Land Surface Processes, Institute of Geographic Sciences and Natural Resources, Chinese Academy of Sciences, *Poster #141: Time series analysis of aerosol optical depth (AOD) over United States and China using an adaptive ARIMA model.*
- Nicholas Altizer\*, University of Central Florida; Timothy Hawthorne, University of Central Florida; Christine Munisteri, Citizen Science GIS; Jane Salazar, University of Belize, *Poster #142: Using Drones to Replace Satellite Imagery: A Case Study from Belize.*
- Jacob C. Brenner\*, Ithaca College; Van Butsic, University of California - Berkeley, *Poster #143: Mapping Cannabis Agriculture in the Emerald Triangle of Northern California.*

### Human Geography Poster Session I - Featured Session

Room: Hall C, Hynes, Second Level

Poster setup: 1:00 p.m. - 1:20 p.m.

Poster display and discussion: 1:20 p.m. - 5:00 p.m.

- Michael F. Gaffney\*, Central Connecticut State University, *Poster #001: Criminal Activity And Persons With Disabilities.*
- Susanne Zimmermann-Janschitz\*, University of Graz; Bettina Mandl, University of Graz, *Poster #002: Mobility Needs of People with Visual Impairment or Blindness for the Design of "ways2see".*
- Arrianna Marie Planey, M.A.\*, University of Illinois at Urbana-Champaign, *Poster #003: Hearing Healthcare Access in the United States: A Spatial and Political Economic Analysis.*
- Temperance Luise Staples\*, Hofstra University, *Poster #004: Maternal Health is Societal Wealth: Access to Paid Family Leave in the United States and Maternal Mental Health Outcomes.*
- Banggu Liao\*, Shanghai Normal University, *Poster #005: Aging in Place in Shanghai? A Demographic Equation Approach.*
- Katerina N. Krohn, Gettysburg College; Randall K. Wilson\*, Gettysburg College, *Poster #006: Parks for Whom?.*
- Xiaoping Shen\*, Central Connecticut State University; Shangyi Zhou, Beijing Normal University, *Poster #007: Elderly People's Perceptions of Senior Housing Facilities in Beijing and Surrounding Areas.*
- Eunji Kang\*, *Poster #008: Effects of Aging on Transportation Modal Choice and Energy Consumption in the Transportation Sector of Korea.*
- Nathan Heard, DSc\*, U.S. Department of State, *Poster #009: Open Mapping in the Global HIV/AIDS Response: The*

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- experience of the U.S. President's Emergency Plan for AIDS Relief (PEPFAR).
- Frank LaFone\*, West Virginia University; Trevor Harris, West Virginia University; Barbara MacLennan, West Virginia University; Charles Peck, West Virginia University, *Poster #010: "I never thought I would work with geographers": Introducing Spatial Concepts and Spatial Narrative to Non-Geographers Through Story Maps.*
- Jeff James Meckstroth\*, University of Wisconsin-La Crosse; Gargi Chaudhuri, Ph.D., University of Wisconsin-La Crosse, *Poster #011: The Effect of Food Deserts on Obesity Rates.*
- Xun Li\*, Department of Geography, The University of Hong Kong; Yan Chen, Department of Geography, The University of Hong Kong, *Poster #012: Environmental externalities of urban river pollution: A spatial hedonic modeling of the Pearl River in Guangzhou.*
- Jamie D. Mitchem, Ph.D.\*, University of North Georgia; Allison Joy Bailey, Dr., University of North Georgia; Troy A. Smith, Ph.D., University of North Georgia; Dwight Wilson, Ph.D., University of North Georgia, *Poster #013: A Multidisciplinary Analysis of College Students' Attitudes toward Climate Change at the University of North Georgia.*
- Autumn C. James, ABD\*, Northern Illinois University, *Poster #014: Ordinary Space or Dangerous Place: How Individual Experience(s) Influence Spatial Perception.*
- A. Rochelle Williams\*, West Virginia University; Trevor M. Harris, West Virginia University, *Poster #015: The Battle for Blair Mountain: exploring what was seen, and not seen, through immersive geovisualization..*
- Emily Rose Tedford\*, Texas A&M University, *Poster #016: Case Study: Ways to engage youth in urban planning and geography.*
- Claudia Seijas-Clark, M.A.\*, Northern Illinois University, *Poster #017: The Role of Socio-Economic Environmental Factors as Barriers to Community Resource Access: A study of the Rockford Public School District Home Visiting Program.*
- Meghna Marjadi, MSc\*, The Ohio State University; Eric Toman, PhD, The Ohio State University, *Poster #018: Pokémon Go Outside: Does outdoor gaming influence environmental perceptions?.*
- Lain K. Graham\*, University of Central Florida; Timothy Hawthorne, University of Central Florida; Christy Visaggi, Georgia State University; Nicholas Altizer, University of Central Florida; Christine Munisteri, Skidmore College, *Citizen Science GIS in Practice: Community Based Research in Hopkins, Belize.*
- Jamie Duke\*, University of Vermont; Cheryl Morse, Ph.D., University of Vermont, *Poster #020: Finding Vermont's Poor Farms: A Cultural Geography of Class and Space.*
- Chris Hair\*, University of Southern Mississippi, *Poster #021: Crops or Crafts.*
- Karl Francis Bauer\*, Kansas State University; Max Lu, PhD, Kansas State University, *Poster #022: Recent Trends in Rural Population Change in the Great Plains.*
- Matthew M. Brooks\*, Kansas State University, *Poster #023: Countering Depopulation in Kansas: Understanding Perceptions of Rural Life and the Effectiveness of the Rural Opportunity Zone Program..*
- Daniel Casey\*, The University of Sheffield, UK, *Poster #024: Local Nature Partnerships and Ecosystem Services Delivery in UK Agriculture.*
- Gabriel Toole\*, Boston University, *Poster #025: Kenya's Bright Future: A Case Study on Renewable Electricity Generation in East Africa..*
- Hannah J Legacy, Keene State College; Cavan Perrott, Keene State College; Samuel Nickerson\*, Keene State College; Cameron Cummings, Keene State College, *Poster #026: Down the Cellar Hole: Preservation for the Sake of Education.*
- ZHAO Yingzhi\*, Yingzhi Zhao, Zhongnan University of Economics and Law, *Poster #027: The coordination between urbanization and agricultural modernization in China.*
- Shaifali Prajapati, Virginia Tech; Luke Juran, Ph.D.\*, Virginia Tech, *Poster #028: Social, Economic, and Cultural Factors of Latrine Adoption in Coastal South India.*
- Isaiah Higgs, Undergrad student UNCW, Earth and oceans sciences\*, University of North Carolina Wilmington, *Poster #029: Disaster Effects on Historically Black Princeville, N.C. from Hurricanes Floyd and Matthew, 1999 and 2016..*
- Ismail Medkouri\*, University of Montana; Salma Zerkaoui, Architect, *Poster #030: Integrating Vernacular Know-How into Development Practices. Case of the Rif Mountains, Morocco..*
- John-Henry Pitas\*, University of Maryland - Baltimore County, *Poster #031: What should a political ecology of death look like? Debating methodologies and field site selections to maximize research effectiveness.*
- Mathias Le Bossé\*, Kutztown University of Pennsylvania, *Poster #032: The Bridge in the Danish National Consciousness.*
- Sarah E. Hinman\*, Leiden University College The Hague; Paul F Hudson, Leiden University College The Hague, *Poster #033: Geographical approaches to global citizenship: A case of study of teaching Urban Studies in The Hague.*
- Jegesh Patel\*, Middle Tennessee State University; Hari Garbharran, PHD, Middle Tennessee State University, *Poster #034: Humans in Crisis Addresses Human Trafficking Globally.*
- Connor Martin\*, Idaho State University; Yolonda Youngs, Idaho State University, *Poster #035: Cultural Values of Ecosystem Services: Cultural-Historical Geography, Repeat Photography, and Environmental Perception of the Portneuf River, Idaho.*
- Tracy Lynn Edwards, Lecturer\*, Frostburg State University, *Poster #036: The Frostburg State University - Water School Uganda Partnership.*
- Jiafan Zhu\*, Binghamton University, *Poster #037: The spatial analysis of cancer cases in Broome County.*
- Katherine Luczai\*, Clark University, *Poster #038: The Geography of Cranberries in Massachusetts: An Exploration into the Politics, Culture and Ecology of an Endangered Industry.*
- Morgan Peterson\*, Boston University, *Poster #039: Women, Water, and the Hydroelectric Development in Guatemala.*
- Ellen Taube\*, Boston University, *Poster #040: Perceptions in Movement: How Gendered Violence Shapes Student Mobility on an Urban Campus.*
- Savannah A Collins\*, University of Tennessee, Knoxville, *Poster #041: Impending Disaster: Resolving the Impact of Normalcy Bias on Public Response to Hazard Threats.*
- Richard C. Daniels, GISP\*, Washington State Department of Transportation, *Poster #042: Washington State on Fire: Using Multivariate Mapping within an Emergency Operations Center.*
- Christopher Holtkamp\*, Texas State University - San Marcos, *Poster #043: The Joy of Geography - Exploring Geographic Concepts in Bob Ross Paintings.*
- Amy Elizabeth Trad\*, Furman University; Weston Dripps, Associate Professor, Furman University, *Poster #044: The Urban Metabolism of Greenville, SC: the importance of systems-thinking to the urban-rural nexus.*
- Christopher Cusack\*, Keene State College; A.L. Rydant, Keene State College, *Poster #045: How a Field Course Could Cost You Your House: Risk Assessment for Geography*



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- Fieldwork.*
- Michael Robinson, Furman University; Elisabeth Schatke\*, Furman University; Miranda Upton, Furman University; Katy Waters, Furman University; Matthew Cohen, PhD, Furman University, *Poster #046: Focused Needs and Assets Assessment: A Vision for Inclusive Well Being in 10 Greenville, SC Neighborhoods.*
- Jamie Edwin Lee Spinney\*, South Dakota State University; Hugh A. Millward, Saint Mary's University, *Poster #047: Environmental and Health Impacts of School Siting.*
- Tim Lau\*, CUNY - Hunter College, *Poster #048: Geographies of Climate Diplomacy: Postcolonial Perspectives on Global Climate Change Governance.*
- Barbara B. Kinne, M.S., Project Manager\*, Penn State; Stacy Bonos, PhD, Rutgers University; Daniel Ciolkosz, PhD, Penn State; Weston Eaton, PhD, Penn State; Damon Hartley, PhD, Idaho National Laboratory; Susan Hawkins, University of Vermont Extension; Michael Jacobson, PhD, Penn State; Venu Kalavacharla, PhD, Delaware State University; Armen Kemanian, PhD, Penn State; Matthew Langholtz, PhD, Oak Ridge National Laboratory; Dennis J. Murphy, PhD, Penn State; Douglas H. Schaufler, PhD, Penn State; Theresa Selfa, PhD, SUNY ESF; Larry B. Smart, PhD, Cornell University; Sabrina Spatari, PhD, Drexel University; Timothy A. Volk, PhD, SUNY ESF; Jingxin Wang, PhD, West Virginia University; Sarah J. Wurzbacher, Extension Educator, Penn State; Tom L. Richard, PhD, Penn State, *Poster #049: The Northeast Wood/Warm-Season Biomass Consortium.*
- Charis Smuthkochorn\*, Clark University, *Poster #050: From Green Revolution to Organic Revolution: The Development of Inequality in Thailand and Resistance in Surin.*
- Jason Chang\*, University of Maryland - Baltimore County, *Poster #051: Parks and crime - Does park configuration influence crime in the city of Baltimore?.*
- Michelle T.O. Oyewole, MA\*, University of California, Santa Barbara; Stuart H. Sweeney, PhD, University of California, Santa Barbara, *Poster #052: School Garden Social Capital in Brooklyn, NY.*
- Daniella Sevestia Meyer, UNCW; Elizabeth Hines, Ph.D.\*, University Of North Carolina - Wilmington, *Poster #053: Culture, Race, Politics, and Transportation Planning in 21st Century North Carolina.*
- Peter Anthamatten, PhD\*, University of Colorado Denver, *Poster #054: An Exploration of Party Preference Voter Geographies in the 2016 Presidential Election.*
- Jedd Sankar-gorton\*, University of Montana, *Poster #055: Understanding Private Landowners in Montana's North Fork.*
- Erik Johan Olson\*, Virginia Tech; Robert Oliver, Virginia Tech; John Lauermaun, Texas A&M, *Poster #056: Reconsidering the 'Geography of Failure': investigating the spatial impact of failed Olympic bids.*
- Erna Martha López Granados, Doctor\*, Universidad Michoacana de San Nicolás de Hidalgo; José Valdiviasa Aguilar, M.Sc., Maestría en Geociencias y Planificación del Territorio, INICIT, UMSNH, Mexico; Manuel E. Mendoza, Doctor, Centro de Investigaciones en Geografía Ambiental, Universidad Nacional Autónoma de México, *Poster #057: Land suitability and urban sprawl in a middle city in Mexico: the case of Morelia, Michoacán.*
- Timothy Sharp\*, Furman University; Matthew Cohen, Ph.D., Furman University, *Poster #058: A Framework for Evaluating Participatory Planning Processes.*
- Sanwei He\*, Zhongnan University of Economics and Law, *Poster #059: Interactive coupling mechanisms of urbanization and integrated transportation in Jing-Jin-Hebei region.*
- Jennie Gustafsson\*, Stockholm University, *Poster #060: Renovations and the Risk of Displacement When Renovating the Million Homes Programme in Sweden.*
- Stephanie May Balke\*, Grand Valley State University, *Poster #061: Bicycle culture - Comparing Safety Figures Between Countries.*
- Christian Rogerson, Professor\*, University of Johannesburg, *Poster #062: The Tourism Space Economy Since the Financial Crisis.*
- Jayne Rogerson, Prof\*, University of Johannesburg, *Poster #063: The Tourism Space Economy Of South Africa Since The Global Financial Crisis.*
- Leanne Purdum\*, University of Georgia, *Poster #064: Contested "humanitarianism" towards refugees: lawsuits and licensing of US family detention centers.*
- Michael Applegarth\*, Shippensburg University, *Poster #065: An example of teaching Geography of the United States and Canada.*
- Sam Perez, MA, MS, MHA\*, University of Arizona College of Medicine- Phoenix, *Poster #066: Spatial Efficiencies of Large U.S. Cities as a Factor to the Rise of Canine MRSA cases.*
- Will Buckingham\*, Furman University; Tyler Knauss\*, Furman University; Anna Peterson\*, Furman University; Matthew Cohen, Furman University, *Poster #067: Swamp Rabbit Trail Economic Impact Study on Travelers Rest business district.*
- Allen Fincham\*, Oklahoma State University, *Poster #068: Retail Sense of Place: Technology Retailing and Flagship Apple Stores.*
- Jongnam Choi\*, Western Illinois University; Chulsue Hwang, Kyung Hee University; Gregory Chu, University of Wisconsin?La Crosse, *Poster #069: The National Atlas of Korea: Broad Resources for Geographic Education.*
- Stentor Benjamin Danielson\*, Slippery Rock University, *Poster #070: Entitlement to Space in Geocaching.*
- Qiangmin Xi\*, Guoping Li\*, *Poster #071: Comparative Advantage, Heterogeneity, and Productivity Change of Firm Relocation: An empirical investigation.*
- Jessica Duque Gomez\*, Boston University; Daniel Finco Matteo\*, Boston University, *Poster #072: The Centralization of Water and Sanitation Services in Venezuela.*
- Fangzhou Li\*, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, *Poster #073: Research on urban influence and urban agglomeration boundary in China: A Migration Perspective.*
- Gabriel J. Epstein\*, Clark University, *Poster #074: Creating Social and Environmental Uplift: Examining the Feasibility and Effects of Renewable Energies for Affordable Housing in Worcester, MA.*
- Kimberly Elaine Holmes\*, Chicago State University, *Poster #075: Sounds of the City.*
- Erika Poveda, Graduate Student\*, San Francisco State University; Tendai Chitewere, Associate Professor, San Francisco State University, *Poster #076: The "Greening" of Gentrification: A Case Study of the East Bay Greenway.*
- Robert Greeley\*, Middlebury College, *Poster #077: Lebanon's Shouf Biosphere Reserve: hunters' attitudes about a protected area.*
- Nuno Melo Ferreira\*, IST-ID (VAT509830072); Teresa Farinha Fernandes, Utrecht University; Miguel Amaral\*, Instituto Superior Técnico - U.Lisboa, *Poster #078: Building a Portuguese cluster in aeronautics: the shaping of a socio-economic ecosystem in a southwestern European territory.*
- Selima Sultana, The University of North Carolina at Greensboro; Nastaran Pour Ebrahim\*, The University of North Carolina at Greensboro; Hyojin Kim, The University of North Carolina at Greensboro, *Poster #079: A Geographic Assessment of Households Energy Expenditures in North Carolina: A First Look at Micro*

## THURSDAY, April 6 • Poster Sessions

- Scale.
- Ritika Abhyankar\*, Dartmouth College, *Poster #080: Agrodevelopment Efforts and Increasing Vector Populations in Rice Fields: Mitigating Malaria in Thailand and Vietnam.*
- Taya Carothers, PhD Candidate\*, Utah State University, *Poster #081: Socio-Demographic Factors Influencing Water Quality Concerns in the Jordan River, Salt Lake City, Utah.*
- Micaela Edelson\*, Gettysburg College; Salma Monani, Gettysburg College; Rutherford Platt, Gettysburg College, *Poster #082: Cultural and Technical Analyses of Pesticide Exposure Risk faced by Migrant Farmworkers, Adams County, Pennsylvania.*
- Nicholas Eric Macfarland\*, Salem State University; Gerard James Garipey\*, Salem State University, *Poster #083: The Influence of Urban Green Space on the Urban Heat Island Effect in New England Cities..*
- Frank H Annie, M.A.; MPA\*, Charleston Area Medical Center, *Poster #084: Effect of 2-4-5T and Dioxin on low birthweight in Nitro West Virginia, between 1955-1969.*
- Shaikh Abdullah Al Rifat\*, University of Alabama; Jason C. Senkbeil, University of Alabama, *Poster #085: Factors Influencing Inland Property Damage from Landfalling Gulf of Mexico Tropical Cyclones.*
- Lauren A Hull\*, Louisiana State University, *Poster #086: Garden Lives: Hybrid Geographies of the Urban Private Garden.*
- Andrea Santos\*, The New School; Ivan Ramirez, The New School; Jieun Lee, Farmingdale State College-SUNY; Ana Baptista, The New School; Ana Traverso-Krejcarek, El Puente; Milagros De Hoz, The New School; Jose Galvez Contreras, The New School, *Poster #087: Fighting for Urban Environmental Health Justice in Southside Williamsburg, Brooklyn: A Pilot Study.*
- Cynthia Elliott\*, Weber State University; Daniel Bedford, PhD, Weber State University, *Poster #088: Spatial Impacts on Local Perceptions of Hydraulic Fracturing in the Uinta Basin.*
- Colin Iliff\*, Texas State University; Colleen Hiner, Assistant Professor, Texas State University, *Poster #089: Hungary for New Varietals: A feasibility analysis of introducing Villany-Hungarian varietals to the Texas Hill Country AVA.*
- Yuyao Jiang\*, Salem State University; Yuyao Jiang, Graduate student, Salem State University, *Poster #090: Neighborhood-Level Analysis of Emergency Supplies -a Case Study of Shanghai, China.*
- Ryan D. James\*, Northern Illinois University; Autumn C. James, Northern Illinois University, *Poster #091: Understanding Changes in Proprietor's Income in Appalachia.*
- Brianna J McAdams\*, Binghamton University, *Poster #092: An Analysis of Radon Exposure in New York from a Socioeconomic View.*
- Ruowei Liu\*, University of Georgia, *Poster #093: Analyze Personal Happiness from Social Survey in China.*
- Elizabeth Major\*, University of North Carolina - Charlotte, *Poster #094: Exploring SNAPscapes: Making sense of the food access landscape in North Carolina.*
- Anushika S De Silva, BSc (Hons), MES\*, University of Waterloo; Su-Yin Tan, BSc (Hons), MA, PhD, University of Waterloo, *Poster #095: The Influence of Landscape Connectivity on the Spread of Zika Virus in Miami-Dade County, Florida.*
- Rhonda Veronica Williams\*, Chicago State University; Rhonda Veronica Williams, Chicago State University, *Poster #096: Perfecting Learning Gardens in Chicago's Washington Heights Community.*
- Jeffrey S. Ueland\*, Bemidji State University, *Poster #097: A Monte Carlo approach for analyzing high uncertainty, micro-geography datasets in small urbanized areas: An analysis of poverty in the Fargo-Moorhead Metro Area.*
- Fatima Abdelbagi Mahmoud Taha, MSc\*, OSU/UPEACE/ UNESCO-IHE, *Poster #098: Examining Social Learning Through The Use Of Serious Game In Understanding The Globalization Of Water Resources.*
- Lacey L. Smith\*, Texas State University - San Marcos, *Poster #099: Estimating the Conservation Potential of the Commercial/Industrial/Institutional Water-Use Sector in Texas Water Supply Planning Regions C and K.*
- Iris T Stewart, Ph.D.\*, Santa Clara University; Christopher M. Bacon, Ph.D., Santa Clara University; Claire Smoker, Santa Clara University, *Poster #100: Assessing Water Resources for Climate Adaptation through Community-Based Monitoring in rural Nicaragua.*
- Jana C. Brady\*, Louisiana State University, *Poster #101: Finding the Fine Wine: Mapping Wine Quality in South Africa.*
- Sonia Batsheva Kaufman\*, Penn State, *Poster #102: A Spatial Analysis of Sexual Assaults on the College Campus: A Case Study of Penn State University from 2014 to 2017.*
- Khawla Alhebsi\*, *Poster #103: Smart Planning to Enhance the Traffic Safety around Schools Zones: Case of Australian School in Abu Dhabi.*
- Tammira D. Taylor\*, University of New Mexico; Christopher D. Lippitt, PhD, University of New Mexico, *Poster #104: An Index of Criticality for Transportation Infrastructure.*
- Cayla Kennedy\*, University of Colorado - Denver, *Poster #105: Sustainable Tourism in Grenada.*
- Jacob Roday\*, Hofstra University, *Poster #106: Farming in the Future: Vertical Farming, Sustainable Urban Agriculture, and Curbing Urban Food Deserts.*
- Jenna Sabers\*, SUNY Geneseo, *Poster #107: Greeks go Green: A Sustainability Report for Sigma Delta Tau.*
- Katherine J. Welch\*, Western Washington University, Huxley College of the Environment, *Poster #108: More Than a Trend: Are People Actually Eating Local Food? Case Studies in Spatial Food Chain Patterns in Whatcom County, Washington.*
- Joyce F. Clapp\*, University of North Carolina at Greensboro, *Poster #109: We Can't All Live in the Gayborhood: Predictors of the Percentage of Same-Sex Households at the National, State, and Local Level.*
- Jamie L. Strickland\*, University of North Carolina - Charlotte, *Poster #110: Revisiting Spatial Bias and Appalachian Regionalization in the Periodical Press, 1960 and 1969.*
- Theodore L. Goudge\*, Northwest Missouri State, *Poster #111: Marathons: From Boston to Honolulu - An Update on the Running Revolution.*
- Charles John Hatton Robison\*, Appalachian State University; Marco Fonseca Rodriguez, Collaborator, *Poster #112: Migration and Night-Time Light Imagery.*
- David Adam Mills\*, Texas State University - San Marcos, *Poster #113: Demonstrating the Effects of Cocooning using Acellular Pertussis in Agent Based Modeling.*
- Daniel Wiese, PSM, PhD Candidate, Temple University; Molly Mattes, Temple University; Francis P Boscoe, MA, PhD, New York State Cancer Registry; Kevin Henry, MA, PhD, Temple University; Julia Wolanski\*, Temple University, *Poster #114: The diffusion of digital mammography in the United States, 2001-2014.*
- Nicholas J Burkhart, Ph.D.\*, University of California - Los Angeles; Michael Shin, Ph.D., University of California - Los Angeles, *Poster #115: GIS Analysis and Visualization of Voter Registration Files.*
- Jonathon Little\*, Monroe Community College (State University of New York); Heather Pierce, Monroe Community College (State University of New York), *Poster #116: Building a Geospatial Career Pipeline: Connecting High Schools, Community College, and the Geospatial*



## THURSDAY, April 6 • Poster Sessions

- Workforce.*  
 Jose Fernando Angel\*, Texas Tech University, *Poster #117: Food Deserts in Lubbock, Texas.*  
 Jenny M. Berggren\*, University of North Carolina - Greensboro; Michele D. Abee, University of North Carolina - Greensboro, *Poster #118: Why am I alone? Spatial determinants and the gender of geography.*  
 Brenden Geraghty, M.A.\*, Binghamton University, *Poster #119: Public Private Partnerships for Economic Development in Declining Cities.*  
 Allison Lenzmeier\*, University of Wisconsin - Eau Claire, *Poster #120: Memorializing a Massacre: Placemaking and Accessibility at the Sand Creek Massacre National Historic Site.*  
 Rebecca A Patterson-Markowitz\*, University of Arizona - Geography & Development, *Poster #121: Dialogic Frameworks for Researching Embodied Trauma in Post-Conflict Settings.*  
 Lihua Peng\*, Nanjing Tech University, *Poster #122: Towards climate-sensitive urban design: the potential of green roofs.*  
 Xinye Fang\*, Shanghai Medical Information Center, Shanghai Health Development Research Center; Lingfang Wu, Shanghai Medical Information Center, Shanghai Health Development Research Center; Jia Xue, Shanghai Medical Information Center, Shanghai Health Development Research Center, *Poster #123: Using GIS Mapping to Target the Distribution of Community Health Resources in Shanghai, China.*  
 Huan Li, Tsinghua University; Xiaolin Guo\*, Tsinghua University; Yang Hong, Tsinghua University; Jing Cao, Tsinghua University, *Poster #124: A Vacancy Area Index based on Remote Sensing Data for House Occupancy Estimation--A Case Study of Ghost Cities in China.*  
 Yahui Niu\*, Yahui Niu, Salem State University, *Poster #125: A Comparative Study on the Cultural Landscape of Taiwan Strait Island's Place Names Based on GIS.*  
 Michele Abee\*, University of North Carolina - Greensboro, *Poster #126: The First Hundred Years of Mercator's projection.*  
 Jennifer Blecha, Ph.D.\*, San Francisco State University; Sally Shatford, San Francisco State University, *Poster #127: Community Orchards and Food Security: Which neighborhoods are planting orchards, why and how?.*  
 John S. Benson, Ph.D.\*, Minnesota State University Moorhead, *Poster #128: A Geographical Comparison of the Places Lived by Tanzanian and American Primary and Secondary School Teachers..*  
 William McWhorter\*, The University of Alabama; Seth Appiah-Opoku, Associate Professor, The University of Alabama; Steven Jones, Associate Professor, The University of Alabama; Joe Weber, Professor, The University of Alabama, *Poster #129: Exploring the Health and Safety Issues of Artisanal and Small-Scale Gold Mining in Ghana; A Case Study.*  
 Majed Mofareh Alhasani\*, The University of Akron, *Poster #130: Using GIS Methods to Connect Commercial Food Waste and Community Gardens in Akron, OH.*  
 Elise Tillema\*, Northern Michigan University, *Poster #131: The Socioecological Impacts of Eagle Mine: Nickel Mining and Indigenous Sacred Sites in Michigan's Upper Peninsula.*  
 Mary Greene, MSc, B.A.\*, NUI Galway, *Poster #132: Energy Biographies: exploring the intersections between lives, practices and contexts.*  
 Amy Bachschneider\*, St. Cloud State University, *Poster #133: A Non-Human Geography of Homeless Domesticated Rabbits in Minnesota.*  
 Lauren Brielle Wheeler\*, James Madison University, *Poster #134: Determining Development Levels of United States Counties Based on Comparative and Spatial Analysis of Multivariate Criteria.*  
 Benjamin Freiman\*, SUNY - Geneseo, *Poster #135: Secondhand Geography: A Place Name Analysis of Goodwill Clothing.*  
 Brittany Jandick\*, University of North Texas, *Poster #136: Shamu's Demise: Changes to SeaWorld's Public Relations after Blackfish.*  
 Sanam K. Aksha\*, Virginia Tech; Luke Juran, Virginia Tech; Lynn M. Resler, Virginia Tech, *Poster #137: Assessment of social vulnerability to natural hazards in Nepal.*  
 Anandi van Diepen-Hedayat, MEdSc\*, *Poster #138: Exurban spatial patterns & social/environmental determinants of health.*  
 Ana Clara Duran, PhD\*, University of Sao Paulo School of Public Health, *Poster #139: Government food procurement in Brazil: regional differences in implementation..*  
 Karen D. Johnson-Webb, Ph.D.\*, Bowling Green State University, *Poster #140: Maternal Stress, Pre-Term Births and Infant Mortality: How do We Measure It?.*  
 Angela K. Jang\*, Colgate University; Daisaku Yamamoto, Colgate University, *Poster #141: Social Basis of Anti-Nuclear Movements: Cross National Comparison.*

# THURSDAY, April 6 • 8:00 AM - 9:40 AM • 2100

Poster Sessions for Thursday are located on pages 174-182.

## 2101. Impact of Payments for Ecosystem Services on the Dynamics of Coupled Natural and Human Systems: Part I (Sponsored by China Specialty Group, Remote Sensing Specialty Group)

Room: Room 101, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Conghe Song, Univ of North Carolina at Chapel Hill; Qi Zhang, UNC-Chapel Hill

CHAIR(S): Conghe Song, Univ of North Carolina at Chapel Hill

8:00 Ying Wang\*, China University of Geosciences; Conghe Song, University of North Carolina-Chapel Hill; Jiangfeng Li, China University of Geosciences; Richard E. Bilsborrow, University of North Carolina-Carolina Population Center, *Multi-Group Analysis on the Direct and Indirect determinants of Rural Household Labor Allocation: A Case Study in Tiantangzhai Township, Anhui Province, China.*

8:20 Qi Zhang\*, UNC-Chapel Hill; Conghe Song, UNC-Chapel Hill; Richard Bilsborrow, Carolina Population Center, *Impacts of China's Payments for Ecosystem Services programs on rural livelihoods: A Case Study in Anhui, China.*

8:40 Frédérique Pellerin-Catellier\*, University of Quebec in Outaouais, Canada; Jérôme Dupras, Institut des sciences de la forêt tempérée, University of Quebec in Outaouais, Canada; Clément Chion, Institut des sciences de la forêt tempérée, University of Quebec in Outaouais, Canada; Jean-François Bissonnette, Institut des sciences de la forêt tempérée, University of Quebec in Outaouais, Canada, *Long-term sustainability of reforestation through a PES program: a focus on the role of bridging organizations.*

9:00 Xiaodong Chen\*, University of North Carolina at Chapel Hill; Qi Zhang, University of North Carolina at Chapel Hill; Nils Peterson, North Carolina State University; Conghe Song, University of North Carolina at Chapel Hill, *Feedback effect of crop-raiding in payments for ecosystem services.*

9:20 Jean Carlo Rodriguez De Francisco, Dr.\*, German Development Institute/Deutsches Institut für Entwicklungspolitik (DIE); Jonas Hein, Dr., German Development Institute/Deutsches Institut für Entwicklungspolitik (DIE), *Why power matters: Power and social relations as mediators of benefits from REDD+ and PES schemes.*

## 2102. Author Meets Critics: Caitlin DeSilvey's 'Curated Decay: Heritage Beyond Saving'

Room: Room 102, Hynes, Plaza Level (Panel Session)

ORGANIZER(S): John Wylie, University Of Exeter; Dydia DeLyser, California State University, Fullerton

CHAIR(S): John Wylie, University Of Exeter

Introducer: John Wylie

Discussant(s): Harlan Morehouse, University of Vermont

Panelists: Emma Waterton, Western Sydney University; Richard H. Schein, University Of Kentucky; Caitlin DeSilvey, University of Exeter; Tim Cresswell, Northeastern University

## 2103. Human Rights: Humanitarian Disaster Response and Protecting Cultural Heritage (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme)

Room: Room 103, Hynes, Plaza Level (Panel Session)

ORGANIZER(S): John Wertman, American Association of Geographers; Mainstreaming Human Rights

CHAIR(S): Susan Wolfenbarger, American Association for the Advancement of Science

Panelists: Stephane Bonamy, ICRC; Hilary N. Ervin, Payson Center for International Development; Susan Wolfenbarger, American Association for the Advancement of Science; Katharyn Hanson, Smithsonian

## 2104. Right to water and safe environments (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme)

Room: Room 104, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Mainstreaming Human Rights

CHAIR(S): Jessica J. Goddard, University of California - Berkeley

8:00 Duncan McLaren\*, Lancaster Environment Centre, *Radicalizing Rights: Recognition and Climate Justice in an Engineered Anthropocene.*

8:20 Heba Allah Khalil, Associate Professor\*, Cairo University; Carl Philipp Schuck, Deutsche Gesellschaft fuer Internationale Zusammenarbeit (GIZ), *Environmental Justice and Geographies of Urban Exclusion: The Case of Cairo.*

8:40 Catherine Corson\*, Mount Holyoke College, *Human Rights Based Conservation: Assembling Universal Rights at the World Conservation Congress.*

9:00 Jessica J. Goddard\*, University of California - Berkeley; Carolina Balazs, PhD, University of California - Davis, *Water Affordability in California's Human Right to Water.*

## 2105. Hazards Risks and Disasters 6 - Risk Reduction: Social Dimensions (Sponsored by Hazards, Risks, and Disasters Specialty Group)

Room: Room 105, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Eric Tate, University of Iowa; Johanna L. Ostling

CHAIR(S): Eric Tate, University of Iowa

8:00 Oscar Asiedu Kuffour\*, Queen's University, *Taking the bull by the horn (?): exploring the necessity of social movements in disaster risk reduction.*

8:20 Esther Elizabeth Lambert, E.E.L\*, University of Toronto, *The Role of Informal Social Protection in Rebuilding Livelihoods? The Case of Tropical Storm Erika in Dominica.*

8:40 Lauren Dent, M.A.\*, University of North Texas, *Technological Disaster in Rural Texas: Trust, Social Capital, and a Corrosive Community.*

9:00 Huili Hao\*, University of North Carolina Wilmington; Devon Eulie, University of North Carolina Wilmington; Jeff Hill, University of North Carolina Wilmington, *Perceptions vs. Reality --- Climate and Weather Effects on Property Ownership and Values.*

9:20 Alejandro Camargo\*, Université de Montréal; Luisa Cortesi, Yale University, *Disastrous waters and the hydrosocial cycle.*

## 2106. (De)Stigmatising Sexscapes: Politics, Policy and Performance II: 2. Rights, Wrongs and Regulations (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme, Sexuality and Space Specialty Group)

Room: Room 107, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Paul J. Maginn, University of Western Australia; Emily Cooper, University of Central Lancashire; Erin Sanders-McDonagh, Middlesex University

CHAIR(S): Emily Cooper, University of Central Lancashire

8:00 Laura Graham\*, Durham University, *The Home Affairs Select Committee Inquiry on Prostitution: Is the time ripe for a Human Rights based approach to sex work?.*

8:25 Emilia Ljungberg\*, Karlstad University, *The smiling face of the emotional state.*

8:50 Elena Shih\*, Brown University; Christine Shio Lim, Brown University; Jordan Rubin-McGregor, Brown University; Imani Herring, Brown University, *Building a Movement Against Sex Work in Rhode Island: Anti-Trafficking and Academic Industrial Complexes.*

9:15 Billie M Lister, Doctor\*, Leeds Beckett University, *Time for change? : Indoor sex workers experiences of working under quasi-criminalisation in England and Wales and their ideas for legislative change.*

# THURSDAY, April 6 • 8:00 AM - 9:40 AM • 2100

## 2107. The 2016 Elections: Analyzing the Data (Sponsored by Late-Breaking News Special Session Track)

**Room:** Room 108, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): Program Committee; John Wertman, American Association of Geographers  
 CHAIR(S): James Newman, Northern Illinois University  
**8:00** James W Newman, Ph.D. Candidate\*, Northern Illinois University, *Using Rank-Mobility Index to Reveal Significant Patterns in Voter Behavior in the 2016 US Presidential Election.*  
**8:20** Robert Chlala\*, University of Southern California, *Going Green in 2016? Cannabis Legalization and Remaking California's Neoliberal Geography.*  
**8:40** Peter E Lenz\*, Dstillery, *Observing and Modeling Candidate Supporters Using Mobile Phone Signals During the 2016 Iowa Caucus.*  
**9:00** Chenxiao Guo\*, University of Georgia; Xiaobai Yao, University of Georgia, *Associating Socioeconomic Characteristics with Public Sentiments on 2016 U.S Presidential Election: A Case Study of Georgia Using Geo-tagged Twitter.*  
 Discussant(s): Helenmary M. Hotz, University of Massachusetts Boston

## 2108. Architecture as urban generator? Flagshipness, iconicity media and impact 1/4 (Sponsored by Urban Geography Specialty Group, Cultural Geography Specialty Group, Economic Geography Specialty Group)

**Room:** Room 109, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): Nadia Alaily-Mattar, Munich University of Technology; Davide Ponzini; Johannes Dreher, Technical University Munich  
 CHAIR(S): Alain Thierstein, Munich University of Technology  
**8:00** Alain Thierstein\*, Munich University of Technology, *Star architecture and the re-positioning cities: Using an impact model to comprehend the web of interactions.*  
**8:20** Davide Ponzini\*, Politecnico di Milano, *Urban Implications of Star Architects' Mobilities and Project Personification.*  
**8:40** Ali Khodr\*, Massachusetts Institute of Technology, *The New Bosphorus.*  
**9:00** Georgia Lindsay\*, University of Colorado, *Museums, Media, and Urban Identity: Iconic Architecture on the Global Stage.*

## 2109. What does it mean to do interdisciplinary research on past environments? Exploring mixed methods in geography through the lens of critical physical geography - Part 1 (Sponsored by Historical Geography Specialty Group)

**Room:** Room 110, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): Kirsten Greer, Nipissing University  
 CHAIR(S): Arn Keeling, Memorial University of Newfoundland  
**8:00** Kirsten Greer\*, Nipissing University; Adam Csank, University of Nevada - Reno; Kirby Calvert, University of Guelph, *Empire, Trees, and Climate in the North Atlantic: Towards Critical Dendro-Provenancing.*  
**8:20** Adam Csank, PhD\*, University of Nevada - Reno; Kirsten Greer, PhD, Nipissing University, *Identifying the sources of timber to Bermuda: linking history and geochemistry through the lens of biology.*  
**8:40** Margot Ann Beaumont Maddison-MacFadyen\*, Memorial University of Newfoundland, *Mary Prince, Cavendish Hall, and Historic Timber.*  
**9:00** Megan Prescott\*, Nipissing University; Kirsten Greer, Nipissing University; Kirby Calvert, University of Guelph, *Interactive critical dendro-provenancing: A case study for disseminating interdisciplinary research using web-based GIS.*  
 Discussant(s): Rebecca Lave, Indiana University; Maria D. Lane, University of New Mexico

## 2110. Planetary Urbanization 1: Nature, Scales and Geographies of Planetary Urbanization

**Room:** Room 111, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): Christian Schmid, ETH Zurich  
 CHAIR(S): Naomi Clara Hanakata, ETH Zurich  
**8:00** Nikolaos Katsikis\*, Nikolaos Katsikis, Postdoctoral Researcher, *Operational Assemblies of Planetary Urbanization.*  
**8:20** Kian Goh, PhD\*, UCLA Urban Planning, *Urban Adaptation is ExtraLocal: Rescaling the Political Ecologies of Climate Change.*  
**8:40** Hillary Angelo\*, University of California Santa Cruz, *Urbanized Nature and the "Green Screen".*  
**9:00** Martin Arboleda\*, Harvard University, *Spaces and Scales of the Collective Laborer in the Mining Supply Chain.*  
 Discussant(s): Christian Schmid, ETH Zurich

## 2111. Activating Diverse Economies

**Room:** Room 200, Hynes, Second Level (Panel Session)  
 ORGANIZER(S): Lindsay Naylor, University of Delaware  
 CHAIR(S): Kevin St. Martin, Rutgers University  
 Panelists: Philip Kelly, York University; Lindsay Naylor, University of Delaware; Stephen Healy, University of Western Sydney, Institute for Culture and Society; Kelly Dombroski, University of Canterbury; Bradley Wilson, West Virginia University

## 2112. Making a Resource I: Science and Legal Frameworks of Shale Fuels (Sponsored by Energy and Environment Specialty Group)

**Room:** Room 201, Hynes, Second Level (Paper Session)  
 ORGANIZER(S): Jennifer Baka, Pennsylvania State University; Elvin Delgado, Central Washington University; Arielle Hesse, Penn State  
 CHAIR(S): Matthew Fry, University of North Texas  
**8:00** Kathryn Bills Walsh\*, Montana State University; Julia H. Haggerty, PhD, Montana State University, *Governing Unconventional Legacies: Lessons from the Coalbed Methane Boom in Wyoming.*  
**8:20** Kärg Kama\*, University of Oxford, *Resource-making as Politics of Knowledge: Epistemic Struggles in European Shale Gas Development.*  
**8:40** Eliot Tretter\*, University of Calgary, *Fossilized Knowledges: The New Enclosures of the Necrosphere.*  
**9:00** Arielle Hesse\*, Penn State; Jennifer Baka, Penn State; Erika Weinthal, Duke University; Karen Bakker, University of British Columbia, *Making science: How stakeholder coalitions frame scientific claims to influence federal regulation of hydraulic fracturing on federal and tribal lands in the United States.*  
**9:20** Matthew Fry\*, University of North Texas; Christian Brannstrom, Texas A&M, *Experimental regulatory approaches for unconventional gas: the case of urban drilling and local government authority in Texas.*

## 2113. Geographies of Food and Agriculture Special Topics in Food-focused Research (Sponsored by Geographies of Food and Agriculture Specialty Group)

**Room:** Room 202, Hynes, Second Level (Paper Session)  
 ORGANIZER(S): Colleen Hammelman  
 CHAIR(S): April Lynn Shirey  
**8:00** Paul van der Werf, M.Sc.\*, University of Western Ontario; Jason A Gilliland, PhD, University of Western Ontario, *The Quantity and Composition of Household Food Waste in the Disposal and Diversion Streams in Toronto, Canada.*  
**8:20** Sébastien Rioux\*, Université De Montreal, *The Rise of Legal Food Adulteration: Political Economy and the Cheapening of the Value of Labour-Power.*  
**8:40** Amanda Marple\*, West Virginia University, *Democratizing University Foodscapes? Student Food Cooperatives and the Corporate University.*



# THURSDAY, April 6 • 8:00 AM - 9:40 AM • 2100

**9:00** Lourdes Annette Vera, MA\*, Northeastern University, *Place and Justice in Urban Agriculture: A comparative case study of urban farming communities in New York City.*

**9:20** April Lynn Shirey\*, Grand Rapids Community College; Stacey Murphy\*, Aquinas College, *Food and housing insecurities in Michigan Community Colleges: What can Geography Students do?.*

**2114. Say it well: Make an impression at the interview (Sponsored by AAG Careers and Professional Development Theme)**

**Room:** Room 203, Hynes, Second Level (Panel Session)  
ORGANIZER(S): Niem Huynh, American Association of Geographers  
CHAIR(S): Niem Huynh, American Association of Geographers

**2116. Family, Life, and Work: Strike a Balance (Sponsored by AAG Careers and Professional Development Theme)**

**Room:** Room 205, Hynes, Second Level (Panel Session)  
ORGANIZER(S): Mark Revell, American Association of Geographers  
CHAIR(S): Mark Revell, American Association of Geographers  
Discussant(s): Beth Schlemper, University of Toledo  
Panelists: Lisa Rainey Brownell, Ohio State Historic Preservation Office; Christopher Labosier, Longwood University; Weronika A. Kusek, Northern Michigan University

**2117. Participatory Research in Geography 1: Approaches (Sponsored by AAG Mapathon, Environmental Perception and Behavioral Geography Specialty Group)**

**Room:** Room 206, Hynes, Second Level (Paper Session)  
ORGANIZER(S): Jerry Shannon, University of Georgia; Dorris Scott, University of Georgia; Ian Rossiter, University of Georgia  
CHAIR(S): Dorris Scott, University of Georgia  
**8:00** Colleen Hammelman, PhD, University of Toronto Scarborough; Allison Hayes-Conroy, PhD, Temple University, *Affective methods in community-based participatory research.*  
**8:20** Amber J. Bosse\*, University of Kentucky, *Looking Good vs. Doing Good: The Rub Between Cartographic Design and Participatory GIS.*  
**8:40** Nehal El-Hadi, PhD (ABD)\*, University of Toronto, *The Planner and the Online Archive.*  
**9:00** Daniel R. Block\*, Chicago State University, *Varying Levels of Public Participation in PPGIS: Lessons and Examples from Chicago.*  
**9:20** Patricia A. Solis\*, Texas Tech University - Lubbock, TX, *Building mappers not just maps: challenges and opportunities from YouthMappers on scaling up the crowd in crowd-sourced open mapping for development.*

**2119. AAG Department Leadership Symposium I: Making the Case for Geography (Sponsored by Geography Faculty Development Alliance (GFDA), Enhancing Departments and Graduate Education project (EDGE))**

**Room:** Room 210, Hynes, Second Level (Panel Session)  
ORGANIZER(S): Kenneth E. Foote, University of Connecticut; Francis Koti, University of North Alabama  
CHAIR(S): Francis Koti, University of North Alabama  
Discussant(s): Marie D. Price, George Washington University; Derek H. Alderman, University of Tennessee  
Panelists: John Paul Jones, University of Arizona

**2220. GIS and Technology Poster Session**

Poster Sessions for Thursday are located on pages 174-178.  
**Room:** Hall C, Hynes, Second Floor (Poster Session)  
\*\*\* Continued into next slot, 2220

**2121. Robotic Futures 1: Nature/Environment & Technology (Sponsored by Cultural and Political Ecology Specialty Group)**

**Room:** Room 301, Hynes, Third Level (Paper Session)  
ORGANIZER(S): Lily A. House-Peters, California State University, Long Beach; Hannes Gerhardt, University of West Georgia

CHAIR(S): Lily A. House-Peters, California State University, Long Beach

**8:00** Katherine Ruth M Machen\*, *Climate science, algorithmic knowledge and discursive politics..*

**8:20** Sam Bliss\*, University of Vermont; Giorgos Kallis, PhD, Universitat Autònoma de Barcelona, *Kiss Nature Goodbye. The Dangerous Illusions of Post-environmentalism..*

**8:35** Daniel Zizzamia\*, Harvard University Center for the Environment, *Finding Lebensraum on Mars: Energy, Settler Colonialism, and Modern Liberalism.*

**8:50** Shannon McMullen, PhD\*, Purdue University; Fabian Winkler, MFA, Purdue University, *Robotan Gardens.*

**9:05** Alpen Sheth\*, Massachusetts Institute of Technology, *Actuarial Automation: Underwriting Weather Insurance and the Limits of Risk Financialization in India.*

Discussant(s): Jessica Lehman, University of Minnesota - Minneapolis

**2122. Author doesn't meet the critics: Gilbert Simondon's On the Mode of Existence of Technical Objects**

**Room:** Room 302, Hynes, Third Level (Panel Session)  
ORGANIZER(S): Daniel G. Cockayne, University of Waterloo  
CHAIR(S): Daniel G. Cockayne, University of Waterloo  
Panelists: Derek Ruez, University of Kentucky; Pip Thornton, Royal Holloway, University of London; Thomas Jellis, University of Oxford; Anna J Secor, University of Kentucky; Maria Fannin, University of Bristol; James N. Ash, Newcastle University

**2123. Memory in political ecology and environmental justice 1: Experimenting with uncertainty, ruins, and artifacts (Sponsored by Cultural and Political Ecology Specialty Group)**

**Room:** Room 303, Hynes, Third Level (Paper Session)  
ORGANIZER(S): Gabriela Valdivia, University of North Carolina - Chapel Hill; Manuel Prieto, Universidad Catolica del Norte  
CHAIR(S): Tom Perreault, Syracuse University  
**8:00** Youijn Brigitte Chung\*, Cornell University, *From Title Deeds to Mango Trees: Contesting hegemonic land claims through photovoice in Bagamoyo District, Tanzania.*  
**8:20** Manuel Prieto\*, Universidad Catolica del Norte, *The ruinous landscape of the San Pedro River (Atacama Desert, Chile): An archaeological approach to the study of memory in political ecology.*  
**8:40** Laura A. Ogden\*, Dartmouth College, *Trace Impressions of Being: Memory and Time in the Fuegian Archipelago.*  
Introducer: Gabriela Valdivia  
**9:10** Eric Michael Hirsch, Ph.D.\*, McGill University, *Discarded Futures: Ruins and Memory in Andean Peru's Colca Valley.*  
Discussant(s): Tom Perreault, Syracuse University

**2124. Tourism Geographies and Evolutionary Economic Geographies: New Perspectives on Change in Tourism Regions (Sponsored by Recreation, Tourism, and Sport Specialty Group)**

**Room:** Room 304, Hynes, Third Level (Paper Session)  
ORGANIZER(S): Patrick Brouder, Brock University; Robert Hassink, Dept. of Geography, University of Kiel  
CHAIR(S): Patrick Brouder, Brock University  
Introducer: Patrick Brouder  
**8:10** Piotr Niewiadomski\*, University of Aberdeen; Patrick Brouder, Brock University, *An evolutionary approach to green economy transitions in tourism.*

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**8:30** Christopher Adam Fullerton\*, Brock University,  
Department of Geography and Tourism Studies, *Long-term paths to sustainable tourism development within Canada's Niagara Region.*

**8:50** Vicky Mellon, MSc\*, Sheffield Hallam University,  
*Coevolution and sustainable tourism in protected areas..*

Discussant(s): Robert Hassink, Dept. of Geography, University of Kiel

**2125. Spatiotemporal Study: Achievements, Gaps, and Future (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group, Spatial Analysis and Modeling Specialty Group)**

*Room:* Room 305, Hynes, Third Level (Panel Session)

ORGANIZER(S): Manzhou Yu, George Mason University

CHAIR(S): Michael F. Goodchild, University of California

Discussant(s): Kathleen Stewart, University of Maryland; Ming-Hsiang Tsou, San Diego State University

Panelists: Diansheng Guo, University of South Carolina; Alexandre Sorokine, Oak Ridge National Laboratory; Paul A. Longley, University College London

**2126. Indigenous Research 2.0: Achieving Indigenous research sovereignty (Sponsored by Indigenous Peoples Specialty Group)**

*Room:* Room 306, Hynes, Third Level (Paper Session)

ORGANIZER(S): Renee Pualani Louis, Institute of Policy and Social Research; Jay T. Johnson, University of Kansas; Chantelle Richmond, The University of Western Ontario

CHAIR(S): Chantelle Richmond, The University of Western Ontario

**8:00** Renee Pualani Louis\*, Institute of Policy and Social Research; Elizabeth Medicine Crow, First Alaskans Institute; Jay T. Johnson, University of Kansas; Andrea Sanders, First Alaskans Institute; Kyle Wark, First Alaskans Institute; Katrina McClure, University of Kansas; Heather Gatti, First Alaskans Institute, *Can you hear us now? In our lands -- with our lens.*

**8:20** Katrina McClure\*, Univ. of KS, *Examining Research: A Mvskoke PhD Student's Reflections on Research.*

**8:40** Scott A. Heyes, Dr\*, The University of Canberra; Noeleen A. Lumby, The University of Canberra, *"Re-charting" the ancestral Bundian Way trail system: How An Indigenous-led Project is Making Tracks Towards Sovereignty.*

**9:00** Kenneth D. Madsen\*, The Ohio State University, *Reversing the Lens: Academics, Research, and Indigenous Peoples.*

Discussant(s): Jay T. Johnson, University of Kansas

**2127. Critical Geography of Education Reform**

*Room:* Room 307, Hynes, Third Level (Panel Session)

ORGANIZER(S): Nancy Ares, University of Rochester Press

CHAIR(S): Nancy Ares, University of Rochester Press

Introducer: Nancy Ares

Panelists: Nancy Ares, University of Rochester Press; Robert James Helfenbein, Loyola University - Maryland; Walter S. Gershon

**2128. Racisms Toxic Entanglements in the Age of Flint and Ferguson I (Sponsored by Cultural Geography Specialty Group)**

*Room:* Room 308, Hynes, Third Level (Paper Session)

ORGANIZER(S): Lindsey Dillon, University of California - Santa Cruz; Rachel Brahinsky, University of San Francisco

CHAIR(S): Lindsey Dillon, University of California - Santa Cruz  
Introducer: Lindsey Dillon

**8:20** Monica Patrice Barra\*, Graduate Center, City University of New York, *Elevate and divert: Re-arranging coastal*

*Louisiana's racial geographies in the Anthropocene.*

**8:40** Jonathan Silver\*, University of Sheffield, *Camden Sinking: Racial capitalism, infrastructure and the urban political ecology of water and sanitation.*

**9:00** Ellen Kohl\*, St. Mary's College of Maryland, *Environmental Justice in the Racial State? The impacts of compounding socio-spatial processes on persistent environmental injustices.*

**9:20** Michael Mascarenhas, PhD\*, Rensselaer Polytechnic Institute, *Poisoned Waters: Understanding Public Participation, Citizen Science, and Environmental Justice in an era of Emergency Management.*

**2129. Pyrogeography (Sponsored by Cultural and Political Ecology Specialty Group, Remote Sensing Specialty Group, Biogeography Specialty Group)**

*Room:* Room 309, Hynes, Third Level (Paper Session)

ORGANIZER(S): Paul Laris, CSU Long Beach

CHAIR(S): Paul Laris, CSU Long Beach

**8:00** Andrew Sluyter\*, Louisiana State University, *Analysis of Eyewitness Accounts of Burning of Neo-Tropical Savannas, 1492-1899.*

**8:20** Christy E. Briles\*, University of Colorado Denver; Olga Serenchenko, University of Colorado Denver; Lora Stevens, University of California Long Beach; Mai Huong, Vietnam Institute of Archeology, *Late Holocene human-environmental interactions in Northern Vietnam.*

**8:40** Duane Griffin, PhD\*, Bucknell University; David M. Manthos, Skytruth, *Why Did The Most Isolated Tribe in the World Burn Their Island?.*

**9:00** Rebecca Lee Jacobs\*, California State University - Long Beach; Paul Laris, CSU Long Beach; Alex Pakalnis, CSU Long Beach, *Fire Intensity and Severity Influences Tree Success in West Africa Savanna.*

**9:20** Paul Laris\*, CSU Long Beach; Rebecca Jacobs, CSULB, *Determinants of fire intensity and severity in a mesic savanna of Africa.*

**2130. Practicing Citizenship I: Political Subjects and the Re-articulation of Rights (Sponsored by Political Geography Specialty Group)**

*Room:* Room 310, Hynes, Third Level (Paper Session)

ORGANIZER(S): Lynn Staeheli; David Jones Marshall, Durham University

CHAIR(S): David Jones Marshall, Durham University

**8:00** Mary Gilmartin\*, Maynooth University; Patricia Burke Wood, Professor, York University, *Irish Enough: Changing Narratives of Citizenship and National Identity in the context of Brexit.*

**8:20** Alex Jeffrey\*, University of Cambridge, *Human Rights within Youth Citizenship Practices: Resource, Rules or Restraint?.*

**8:40** Monica Farias\*, University of Washington, *Decolonizing citizenship: grassroots organizations and strategic rights claiming in Buenos Aires.*

**9:00** Michael Collyer\*, University of Sussex; Linda Tip, University of Sussex; Rupert Brown, University of Sussex; Linda Morrice, University of Sussex, *Naturalising: resettled refugees in the UK search for 'normality'.*

**9:20** Nikodemus Solitander\*, Hanken School of Economics; Linda Annala, Hanken School of Economics, *The Production of Worker-(non-)Citizens at Refugee Reception Centers - Performing conformity, dissent and protest.*

**2131. 2017 AAG Physical Geography Symposium Session 2: Geomorphology and Long-Term Human Geomorphic Interactions (Sponsored by Paleoenvironmental Change Specialty Group, Geographies of Bread and Water in the 21st Century Featured Theme, Geomorphology Specialty Group,**



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## Water Resources Specialty Group

Room: Room 311, Hynes, Third Level (Paper Session)

ORGANIZER(S): Timothy Beach, University of Texas at Austin; Carlos E. Cordova, Oklahoma State University; Anne Chin, University of Colorado Denver

CHAIR(S): Anne Chin, University of Colorado Denver

8:00 Allan James\*, University Of South Carolina, *Early Anthropogeomorphic Changes to Fluvial Systems in Temperate North America.*

8:20 Paul Hudson\*, Leiden University; Madelief G.M. Verdaasdonk, Utrecht University, *Formation and adjustment of islands along the Lower Mississippi River.*

8:40 Mike Blum\*, University of Kansas, *The Once and Future Mississippi Delta.*

9:00 David S. Leigh\*, The University of Georgia; Theodore L. Gragson, The University of Georgia; Bastien Lefebvre, Université de Toulouse - Jean Jaures, *Rapid alluvial sedimentation aided expansion of Moissac during the Middle Ages in southern France..*

9:20 Samuel Munoz\*, Woods Hole Oceanographic Institution; Liviu Giosan, Woods Hole Oceanographic Institution; David Fike, Washington University; Alexander Bradley, Washington University; B. Brandon Curry, Illinois State Geological Survey; Sissel Schroeder, University of Wisconsin-Madison; Jack Williams, University of Wisconsin-Madison, *The View from the Mud: Environmental Perspectives on the Rise and Fall of Cahokia, a Prehistoric City on the Mississippi River.*

## 2122. Dynamics of Coupled Natural and Human Systems Panels: Models, Feedback, Analyses, and Outcomes (Sponsored by Human Dimensions of Global Change Specialty Group)

Room: Room 312, Hynes, Third Level (Panel Session)

ORGANIZER(S): Chuan Liao, University of Michigan

CHAIR(S): Arun Agrawal, University of Michigan

Introducer: Arun Agrawal

Discussant(s): Jane Southworth, University of Florida; Nina Lam, Louisiana State University; Stephen J. Walsh, Univ of North Carolina - Chapel Hill; Thomas J. Baerwald, National Science Foundation; Stephen Perz, University of Florida; Maria Fernandez-Gimenez, Colorado State University; David Lopez-Carr, UC Santa Barbara

## 2133. Climate Specialty Group Student Paper Competition - Session I (Sponsored by Climate Specialty Group)

Room: Room 313, Hynes, Third Level (Paper Session)

ORGANIZER(S): Trent Ford, Southern Illinois University

CHAIR(S): Trent Ford, Southern Illinois University

8:00 Ali S. Alghamdi\*, King Saud University & Kansas State University; John Harrington, Jr, Kansas State University, *Heat Waves in Saudi Arabia: Statistical Analysis.*

8:20 Qunshan Zhao\*, Arizona State University; Jiachuan Yang, Arizona State University; Zhi-Hua Wang, Arizona State University; Elizabeth A. Wentz, Arizona State University, *Assessing the cooling benefit of tree shade by a microclimate physical scale model site at Tempe, AZ.*

8:40 Abigail Aderonmu\*, University of Missouri-Kansas City; Jimmy Adegoke, University of Missouri-Kansas City; Caroline Davies, University of Missouri-Kansas City, *Assessing the Impact of Changing Climate on Agriculture and the Use of Crop Insurance as Adaptation Strategy.*

9:00 Ning Zhang\*, Ohio State University; Steven M Quiring, Ohio State University, *Study on Vertical Interpolation of Soil Moisture.*

9:20 Chen Zhao\*, Ohio State University; Steven M Quiring, Ohio State University; Shanshui Yuan, Texas A&M University, *Sensitivity study of the factors affecting soil moisture interpolation performance.*

## 2138. Theorizing Citizenship in Higher Education: Students as Agents of Change? I: State, University, and Citizenship Production (Sponsored by Cultural Geography Specialty Group)

Room: Independence East, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Yi En Cheng, Yale-NUS College; Mark Holton, Plymouth University

CHAIR(S): Mark Holton, Plymouth University

8:00 Mike Dimpfl\*, Duke University; Sara H. Smith\*, University of North Carolina, *Cosmopolitan Sidestep: University Life, Geopolitics, and the Hidden Costs of "Global" Citizenship.*

8:20 Marco Lupatini, Mr, Université de Fribourg/Freiburg, *Critical Thinking and Controversial Issues on Public Space in Geography Teaching in Switzerland.*

8:40 Yi En Cheng\*, Yale-NUS College, *Liberal arts experiments in Asia: fostering new youth citizenship and student identities.*

## 2139. Geospatial approaches to uncertainty in health data (Sponsored by Health and Medical Geography Specialty Group, Association of American Geographers, Uncertainty and Context in Geography and GIScience Featured Theme)

Room: Independence West, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Daniel A. Griffith, U. of Texas at Dallas;

Yongwan Chun, The University of Texas at Dallas

CHAIR(S): Yongwan Chun, The University of Texas at Dallas

8:00 David W. Wong\*, George Mason University; Min Sun, George Mason University, *Considering Attribute Error in Spatial Cluster Identification.*

8:20 Amy Elizabeth Hughes\*, UT Southwestern, *Title: Spatial Uncertainty, Temporal Aggregation, and Estimates from the Simultaneous Panel Spatial Lag Model.*

8:40 David Wheeler, PhD\*, Virginia Commonwealth University, *Uncertainty in modeling spatial disease risk due to residential mobility.*

9:00 Eun-hye Enki Yoo\*, University At Buffalo (SUNY), *Spatio-temporal random effect models for an analysis of air pollution and emergency room visits for asthma.*

9:20 Charlene Nielsen, MSc\*, University of Alberta; Carl G Amrhein, RPP, MCIP, FRCGS, PhD, University of Alberta; Alvaro Osornio Vargas, MD, PhD, University of Alberta, *Spatio-temporal relationships of the outdoor environment with subnormal neonatal weight.*

## 2140. Uncertainty and context in geographic research (Sponsored by Uncertainty and Context in Geography and GIScience Featured Theme)

Room: Liberty B, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Uncertainty and Context Theme

CHAIR(S): Shakil Bin Kashem, University of Illinois

8:00 Matthew Tenney\*, McGill University; Renee Sieber, McGill University, *Coding the Smart City: Algorithmic Assemblages and the Mining of Public Participation.*

8:20 Lirong Kou\*, University of Illinois, Urbana-Champaign; Honggang Xu, Sun Yat-Sen University; Mei-po Kwan, University of Illinois, Urbana-Champaign, *The influence of seasonality on amenity-led mobility and wellbeing of retired migrants in China.*

8:40 Beáta Szilasi Siskáné\*, University of Miskolc, *The recent trends of the Hungarian emigration.*

9:00 Alec Biehl\*, Northwestern University; Amanda Stathopoulos, PhD, Northwestern University; Alireza Ermagun, Postdoctoral Fellow, Northwestern University, *Towards a framework for identifying success parameters for equitable bike sharing.*

9:20 Shakil Bin Kashem\*, University of Illinois, *Analyzing spatial and temporal context sensitivity of emotion mapping: an approach to apply human sensor data for urban planning and design.*

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## 2141. 4th Special Session Retail aspects in Urban Geography and Urban Planning (Sponsored by Urban Geography Specialty Group, Economic Geography Specialty Group, Business Geography Specialty Group)

**Room:** Liberty C, Sheraton, Second Floor (Paper Session)  
 ORGANIZER(S): Herman Kok, Multi / ODTU; Barbara Hahn, Würzburg University

CHAIR(S): Herman Kok, Multi / ODTU

Introducer: Herman Kok

**8:05** Silke Weidner\*, *Smart retail in small and medium sized cities.*

**8:25** Tanja Korzer\*, University of Leipzig, *smart urban retail services - development of an integrative service concept for crosschannel-retailer in the future city.*

**8:45** Steve Millington\*, Manchester Metropolitan University, *Bringing Big Data to Small Users: evidence based decision making for Town Centre Management.*

Discussant(s): Joris Beckers, Universiteit Antwerpen; Herman Kok, Multi / ODTU

## 2142. Economic Geography VI - Knowledge & Technology in a Regional and Sectoral Context (Sponsored by Economic Geography Specialty Group)

**Room:** Back Bay Ballroom A, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Dieter Franz Kogler, University College Dublin; Jennifer Clark, Georgia Institute of Technology; Thomas Kemeny, University of Southampton

CHAIR(S): Thomas Kemeny, University of Southampton

**8:00** Fatih Kaan Akyar\*, Istanbul University, *Does Public Development Expenditure Support Sustainable Endogenous Development For Regional Development And Regional Competition In The Globalization Process?*

**8:20** Magnus Nilsson\*, Circle, Lund University; Markus Grillitsch, Cricle, Lund University, *Knowledge externalities and firm heterogeneity: Effects on high and low growth firms.*

**8:40** Enrico Vanino\*, Aston University; Jun Du, Aston University, *Growth heroes and the wider economy: the UK evidence.*

**9:00** Johan Mörner\*, CIRCLE, Lund University; Michaela Trippel, University of Vienna, *Path transformation through digitalization: Self-driving cars in West Sweden.*

## 2144. Whither the Growth Machine I: Financialization and the Rescaling of the Growth Machine

**Room:** Constitution A, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): John Stehlin, University of California, Berkeley; Alexander Tarr, Worcester State University

CHAIR(S): John Stehlin, University of California, Berkeley

Introducer: John Stehlin

**8:05** Andrew E.G. Jonas\*, University of Hull; Andrew R Goetz, University of Denver; Sylvia Brady, University of Denver, *Financing the urban growth machine: the rise of the global infrastructure public-private partnership.*

**8:25** Sage Ponder\*, University of British Columbia, *The Debt and Life of Great American Cities: Urban Reproduction in the Time of Financialization.*

**8:45** Sarah Launius\*, University of Arizona; Mark Kear, Assistant Professor, University of Arizona, *Hybrid-Machines: Local Growth Coalitions and Global Financial Markets.*

**9:05** David Wachsmuth\*, McGill University, *Post-City Politics: Growth Coalitions Beyond the Growth Machine.*

Discussant(s): John Logan, Brown University

## 2145. Land, Labor, and Resistance

**Room:** Constitution B, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Béla Filep

**8:00** Diego Andres Lugo Vivas\*, University of Miami, *Understanding Nuances in Land Concentration in a Post-conflict Colombia: Comparative Ethnography in the Pacifico Vallecaucano and Northern Vichada.*

**8:20** Jennifer Baca\*, Bowdoin College - BRUNSWICK, ME, *Trees and memories: Re-articulating the defense of territory in Southern Chile.*

**8:40** Gustavo A Garcia-Lopez, PhD\*, University of Puerto Rico - Rio Piedras, *Political ecologies of the state and the commons: Dynamics of resistance and accommodation in Mexico's community forests.*

**9:00** Charvaak Pati\*, York University, *Violence and the aftermath: Working Class Politics in Maruti-Suzuki, India.*

**9:20** Béla Filep\*, Department of Geography, University of Bern, *Geographies of mobilization for political self-determination in Europe.*

## 2148. Conservation, Tourism, and Livelihoods 1: Challenges for Parks and Protected areas (Sponsored by Cultural and Political Ecology Specialty Group, Animal Geography Specialty Group)

**Room:** Beacon D, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Priyanka Ghosh

CHAIR(S): Priyanka Ghosh

**8:00** Daniel A Moscovici, PhD\*, Stockton University; Catherine A Tredick, PhD, Stockton University; Joseph Russell, MNR, Stockton University, *Understanding Users on Public Land - Wildlife Management Areas - NJ.*

**8:20** Lillian K. S. Mitchell\*, University of Guelph; Noella Gray, Dr., University of Guelph, *Politics and Protected Areas: Ecotourism Aspirations in the Remote Phoenix Islands Protected Area.*

**8:40** Peter N Kamau\*, Louisiana State University, *Factors Influencing Local Perceptions of Elephants Around Chyulu Hills and Mount Kasigau in Southern Kenya..*

**9:00** Melody Christa Lynch\*, McGill University, *Ecotourism, Conservation, and Bajo Livelihoods in the Wakatobi National Park, Indonesia.*

Discussant(s): Patrick T. Hurley, Ursinus College

## 2149. Issues in Modeling and Sampling

**Room:** Beacon E, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Yuchun Pan, National Engineering Research Center for Information Technology in Agriculture

**8:00** Pablo Andres Astudillo\*, University of Oxford, *Path dependence evolution in oil exporting countries, a complexity approach.*

**8:20** Lan You\*, Chinese University of Hong Kong; Hui Lin, Chinese University of Hong Kong, *Geo-process Modeling and Simulation in VGEs for the Effects of Human Behaviors on the Earth System.*

**8:40** Ameen A Kadhim, PhD Student\*, Michigan state university, *Coupled Human and Natural Systems (CHANS) evaluation for a critical near-coastal riverine region: the Shatt Al-Arab River region, southern Iraq.*

**9:00** Bingbo Gao\*, National Engineering Research Center for Information Technology in Agriculture; Yuchun Pan, National Engineering Research Center for Information Technology in Agriculture; Ziyue Chen, College of Global Change and Earth System Science, Beijing Normal University; Fang Wu, Information Center, China Waterborne Transport Research Institute; Xuhong Ren, National Engineering Research Center for Information Technology in Agriculture; Maogui Hu, Institute of Geographic Sciences & Nature Resources Research, Chinese Academy of Sciences, *A spatial conditioned Latin hypercube sampling method for mapping using ancillary data.*

**9:20** Yuchun Pan\*, National Engineering Research Center for Information Technology in Agriculture;

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Xuhong Ren, Department of Computer Science and Engineering, North China Institute of Aerospace Engineering; Bingbo Gao, National Engineering Research Center for Information Technology in Agriculture; Yu Liu, National Engineering Research Center for Information Technology in Agriculture; YunBing Gao, National Engineering Research Center for Information Technology in Agriculture; Xingyao Hao, National Engineering Research Center for Information Technology in Agriculture; Ziyue Chen, College of Global Change and Earth System Science, Beijing Normal University, *Global Mean Estimation using a Self-organizing Dual-zoning Method for Preferential Sampling*.

## 2150. Doing Comparative Urbanism in the Global East (Sponsored by Urban Geography Specialty Group)

**Room:** *Beacon F, Sheraton, Third Floor* (Paper Session)  
 ORGANIZER(S): Do Young Oh, London School of Economics  
 CHAIR(S): Do Young Oh, London School of Economics  
 8:00 Sukjoon Lee\*, Seoul National University; Kyung-min Kim, Seoul National University, *Urban regeneration strategy using regional resources: a comparison study of Seoul and Singapore*.  
 8:20 Do Young Oh\*, London School of Economics, *The Urban Process and Universities in East Asia: a Comparative Study of Korea and Singapore*.  
 8:40 WENJIA WU, Ph.D. candidate\*, Department of Civil Engineering, Tsinghua University; Hongrui Zhao, Doctor, Professor, Department of Civil Engineering, Tsinghua University; SHULONG JIANG, Department of Civil Engineering, Tsinghua University, *Urban scaling law in China: universality and peculiarity*.  
 9:00 Jiao Huang, PhD\*, Peking University; Christine Aubry, PhD, INRA/AgroParisTech; Monique Poulot, PhD, University of Paris X; Shuangcheng Li, PhD, Peking University, *Trends in metropolitan agriculture and implications to land use policy, a comparative study between the Greater Paris Region and Beijing*.  
 Discussant(s): Jason Luger, The University of San Francisco

## 2153. The power of enchantment: exploring the affective entanglements between bodies, objects and space in constituting national identifications (Sponsored by Political Geography Specialty Group, Cultural Geography Specialty Group)

**Room:** *Dalton A, Sheraton, Third Floor* (Paper Session)  
 ORGANIZER(S): Elisabeth Miltz, University of St. Gallen; Hannah Truus Lyons, Newcastle University  
 CHAIR(S): Elisabeth Miltz, University of St. Gallen  
 8:00 Sherria Ayuandini\*, Washington University, *Enacting And Promoting Dutchness: How everyday nationality enters the medical practice of hymenoplasty consultations*.  
 8:20 Amy Clarke\*, University of Sussex, *Discomfort as a form of affective nationhood*.  
 8:40 Alan Ingram\*, UCL Department of Geography, *Critical enchantment: English Magic at the Venice Biennale*.  
 Discussant(s): Nichola Wood, University of Leeds

## 2155. Food sharing: contemporary cultures, practices and economies I (Sponsored by Geographies of Food and Agriculture Specialty Group, Economic Geography Specialty Group)

**Room:** *Hampton A, Sheraton, Third Floor* (Paper Session)  
 ORGANIZER(S): Oona Morrow, Trinity College Dublin; Anna Davies, Trinity College Dublin  
 CHAIR(S): Oona Morrow, Trinity College Dublin  
 8:00 Anna Davies, Professor\*, Trinity College Dublin, *Unity in Diversity? Theories and practices of food sharing*.  
 8:20 Jane Midgley, Dr\*, Newcastle University, *'it sounds very simple to give food away but to do it well is very difficult': Exploring the complexities of surplus food*

*and food sharing*.

8:40 Marcus Nyman, BA, MSc\*, Department of Geography, University of Cambridge, *Discerning the food from the trees: urban foraging in London and the reimagining of urban nature*.  
 9:00 Connor J. Fitzmaurice\*, Boston University; Juliet B. Schor, PhD, Boston College, *Distinguishing Food: Bartering for Jams and Legitimacy in a Failed Circuit of Commerce*.  
 9:20 Cathy Sherry\*, University of New South Wales, *Foraging down under*.

## 2156. Synoptic Climatology 1 (Sponsored by Climate Specialty Group)

**Room:** *Hampton B, Sheraton, Third Floor* (Paper Session)  
 ORGANIZER(S): Cameron C. Lee, Kent State University; Thomas Ballinger, Texas State University  
 CHAIR(S): Thomas Ballinger, Texas State University  
 8:00 Md Rafiqul Islam\*, Kent State University, *Self-Organizing Map: The South Asian Seasonal delineation*.  
 8:20 Dolly Yemaa Na-Yemeh\*, Western Kentucky University; Rezaul Mahmood, Professor, Western Kentucky University, *Synoptic atmospheric conditions, land cover and equivalent temperature variations in Kentucky*.  
 8:40 Erik T. Smith\*, Kent State University, *Synoptic Climatological Analysis of Cold Air Outbreaks in the Eastern United States and the Influence of Atmospheric Teleconnections*.  
 9:00 Scott C Sheridan\*, Kent State University; Cameron C Lee, Kent State University; Douglas Pirhalla, NOAA; Varis Ransi, NOAA, *Using self-organizing maps to assess atmospheric circulation along the eastern seaboard of the US, and its relationship with short-term sea-level fluctuations*.  
 9:20 Cameron C. Lee\*, Kent State University, *Synergistic impacts of multiple teleconnections on North American surface weather types*.

## 2157. Knowledge mobility and co-production in the making of eco-cities in the global South

**Room:** *Gardner A, Sheraton, Third Floor* (Paper Session)  
 ORGANIZER(S): Maggi W.H. Leung, Utrecht University; I-Chun Catherine Chang, Macalester College  
 CHAIR(S): Maggi W.H. Leung, Utrecht University  
 8:00 Yu Zhou\*, Vassar College, *Impacts of three Green building programs in China: LEED, Greenstar and Passive Building*.  
 8:20 Pietro Calogero, Ph.D.\*, Xi'an Jiaotong-Liverpool University, *Change of Plans: The PRC's Policy Shift Toward Sustainable Urbanism*.  
 8:40 Emma Louise Colven\*, UCLA, *The Mobilities and (Re) Constitution of Dutch Engineering Expertise in Jakarta: Planning the Great Garuda Sea Wall Project*.  
 9:00 Zack Lee\*, Sofia Shwayri, Center for Middle Eastern Studies, University of California - Berkeley, *When Vision Meets Reality: The mobility of Songdo as an eco-city model*.  
 9:20 I-Chun Catherine Chang\*, Macalester College, *How Do Sustainable Urbanism Knowledge and Practice Transfer?*.

## 2158. Reconstructing Urban Natures Session 1 Theoretical Perspectives? Building Engagements between Green Urbanism, the Resilient City, and Urban Political Ecology.

**Room:** *Gardner B, Sheraton, Third Floor* (Paper Session)  
 ORGANIZER(S): Damian Finbar White, RISD  
 CHAIR(S): Damian Finbar White, RISD  
 8:00 Damian Finbar White\*, RISD; Hannah M. Teicher\*, Massachusetts Institute of Technology, *Reconstructing Urban Natures? Building Engagements between Green Urbanism, the Resilient City, and Urban Political*



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## Ecology.

**8:20** Ursula Lang\*, University of Glasgow, *Phenomenal Urban Ecologies*.

**8:40** Laura E. Taylor\*, York University, *Ecosystem-based Planning and the End of Design with Nature*.

**9:00** Scott Kellogg\*, Rensselaer Polytechnic Institute; Scott Kellogg, Rensselaer Polytechnic Institute, *Urban Ecosystem Justice*.

Discussant(s): Heloisa S M Costa, UFMG

## 2159. The Urban Politics of Policy Failure I: Political Impacts of Failure (Sponsored by Political Geography Specialty Group, Urban Geography Specialty Group)

Room: Fairfax A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): John Lauermann, Texas A&M University; Cristina Temenos, University of Manchester - Manchester

CHAIR(S): John Lauermann, Texas A&M University

**8:00** Kathryn Wells, PhD\*, George Washington University, *Policyfailing: The Case of Public Property Disposal in Washington, D.C.*

**8:20** Tom Baker, University of Auckland; Eugene McCann\*, Simon Fraser University, *Afterlives of failure: Exploring the absence of Drug Consumption Rooms in Melbourne*.

**8:40** Cindy Sturm\*, University of Freiburg, *Success and Failure of Energy and Climate Policies*.

**9:00** Cristina Temenos\*, University of Manchester - Manchester, *From urban renewal to the war on drugs: The persistence of failed policies in urban politics*.

Discussant(s): Mark Davidson, Clark University

## 2160. Authors Meets the Critics: Brent McCusker, William Moseley, and Maano Ramutsindela's "Land Reform in South Africa: The Uneven Transformation" (Sponsored by Cultural and Political Ecology Specialty Group, Africa Specialty Group, Development Geographies Specialty Group)

Room: Fairfax B, Sheraton, Third Floor (Panel Session)

ORGANIZER(S): Brian King, Pennsylvania State University

CHAIR(S): Brian King, Pennsylvania State University

Discussant(s): Brian King, Pennsylvania State University; Brent McCusker, West Virginia University; William G. Moseley, Macalester College

Panelists: Daniel Weiner, University of Connecticut; Elizabeth Lunstrum, Department of Geography; Philip Okeefe, Northumbria University

## 2161. Accessibility and commuting perspectives on work and non-work opportunities (Sponsored by Spatial Analysis and Modeling Specialty Group, Economic Geography Specialty Group, Transportation Geography Specialty Group)

Room: Jefferson, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Michael Niedzielski, University of North Dakota

CHAIR(S): Michael Niedzielski, University of North Dakota

**8:00** Yujie Hu\*, Rice University, *Decomposing excess commuting*.

**8:20** Joan Carles Martori\*, University of Vic; Philippe Apparicio, INRS Urbanisation Culture Société; Anne-Marie Séguin, INRS Urbanisation Culture Société, *Spatial potential accessibility of playgrounds in Barcelona City*.

**8:40** Hyojin Kim\*, University of North Carolina at Greensboro; Selima Sultana\*, University of North Carolina-Greensboro, *An accessibility approach to predicting the role of railway speed in regional development: A case study in the Washington, DC-Atlanta corridor*.

**9:00** Meiliu Wu\*, University of Cincinnati; Changjoo Kim, University of Cincinnati, *Spatial and Temporal Difference between Work Trips and Non-work Trips by Mode of Transport: A Case Study of Greater Cincinnati*.

**9:20** Michael Niedzielski\*, University of North Dakota; Enru Wang, University of North Dakota; Jeffery Olson, University of Wisconsin-Whitewater, *Analyzing accessibility to employment, social, health, education, and business opportunities in North Dakota*.

## 2162. Transforming Human-Environment Interactions Research through Integrative Methods 1 (Sponsored by Cultural and Political Ecology Specialty Group, Human Dimensions of Global Change Specialty Group, Water Resources Specialty Group)

Room: Kent, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Jennifer Glaubius, University of Kansas; Jean Eichhorst, University of Kansas

CHAIR(S): Jean Eichhorst, University of Kansas

**8:00** Matthew C. LaFevor\*, University of Alabama, *Global Changes in Agricultural Terracing Practices: Socio-Environmental Trends, Drivers, and Impacts (1966-2016)*.

**8:20** Jennifer Glaubius\*, University of Kansas; Xingong Li, University of Kansas, *Disentangling Human and Environmental Factors in the Evolution of Terraced Landscapes: A Modeling Approach*.

**8:40** Megan Dwyer Baumann\*, Pennsylvania State University, *The Role of Landscape Cognition in Smallholder Crop Management for Food Security in Nicaragua*.

**9:00** Evan R. Larson\*, The University of Wisconsin-Platteville; Lane B Johnson, M.S., National Park Service; Kurt F Kipfmüller, Ph.D., University of Minnesota-Twin Cities, *People, Fire and Pine in the Great Lakes Region*.

**9:20** E. Jamie Trammell, PhD\*, University of Alaska, Anchorage; Meagan Krupa, PhD, University of Alaska, Anchorage; Jim Powell, PhD, University of Alaska, Southeast, *Salmon Futures: Stakeholder-driven salmon management scenarios under changing environmental conditions on Alaska's Kenai Peninsula*.

## 2163. Justice and equity in the transformation of urban systems 1

Room: Commonwealth, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Sara Edge, Ryerson University; Tor Oiamo, University of Windsor

CHAIR(S): Tor Oiamo, University of Windsor

**8:00** Sara Edge, PhD\*, Ryerson University; Emma Beattie, Ryerson University, *Talk of the Town: An Equity Focused Analysis of "Blurry" Media Categories to Reveal Expressed and Hidden Perspectives on Neighbourhood Gentrification*.

**8:20** Sarah Mason-Renton\*, University of Western Ontario; Isaac Luginaah, University of Western Ontario, *"We did what we were supposed to and they still weren't happy": Facility siting lessons learned in rural Ontario*.

**8:40** Rachele S Berry\*, Syracuse University, *Greenlining for Justice: A Search for Equity in the Detroit Future City Plan*.

Discussant(s): Jeffrey R. Masuda, Queen's University

## 2164. William Bunge (1928-2013) and Geography: I (Sponsored by History of Geography Specialty Group)

Room: Boylston, Marriott, First Floor (Paper Session)

ORGANIZER(S): Luke R. Bergmann, University of Washington; Clark Akatiff

CHAIR(S): Clark Akatiff

**8:00** Denis Wood\*, *Bunge's Call*.

**8:20** Stuart N. Lane\*, Université de Lausanne, *William Bunge and the case for a more relational physical geography*.

**8:40** Kevin R. Cox\*, Ohio State University, *William Bunge and Geography's Great Divide*.

**9:00** Luke R. Bergmann\*, University of Washington, *Geography: The Innocent Science and a path geography hasn't taken....*

Discussant(s): John Hessler, Johns Hopkins University

**THURSDAY, April 6 • 8:00 AM - 9:40 AM • 2100****2165. Time Series Analysis of Satellite Images (I) (Sponsored by Remote Sensing Specialty Group, Landscape Specialty Group, Spatial Analysis and Modeling Specialty Group)****Room:** Tremont, Marriott, First Floor (Paper Session)

ORGANIZER(S): Qihao Weng, Indiana State University; Peng Fu, Indiana State University

CHAIR(S): Shuvankar Ghosh, University of Georgia

**8:00** Tracy Whelen\*, University of Massachusetts - Amherst; Paul Siqueira, PhD, University of Massachusetts - Amherst, *Synthetic Aperture Radar (SAR) Time Series for Agricultural Land Cover Classification*.**8:20** Meng Liu\*, College of Global Change and Earth System Science in Beijing Normal University; Jin Chen, State Key Laboratory of Earth Surface Processes and Resource Ecology in Beijing Normal University, *A hybrid model for producing high spatiotemporal resolution NDVI time series*.**8:40** Peng Fu\*, Indiana State University; Qihao Weng, Indiana State University, *Exploring variability of the annual temperature cycle over the conterminous United States (CONUS) with MODIS imagery from 2003-2015*.**9:00** Shuvankar Ghosh\*, Centre for Geospatial Research, Department of Geography, University of Georgia; Deepak Mishra, Centre for Geospatial Research, Department of Geography, University of Georgia, *Analyzing MODIS derived tidal wetland phenology of Louisiana using TIMESAT*.**9:20** Li Zhang\*, *Wetland Vegetation feature extraction in Poyang lake from Multi-sensor and Multi-temporal images*.**2166. Author meets Critics: Rebecca Kinney's Beautiful Wasteland: The Rise of Detroit as America's Postindustrial Frontier****Room:** Columbus 1, Marriott, First Floor (Panel Session)

ORGANIZER(S): Josh Akers, University of Michigan-Dearborn

CHAIR(S): Josh Akers, University of Michigan-Dearborn

Introducer: Josh Akers

Discussant(s): Sara Safransky, Vanderbilt University

Panelists: Katherine B. Hankins, Georgia State University; Patrick Vitale, New York University; Jessa Loomis, University of Kentucky; Rebecca J. Kinney, Bowling Green State University

**2167. Geography Education I****Room:** Columbus 2, Marriott, First Floor (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Grant Saff, Hofstra University

**8:00** Bingxin Qi\*, University of Denver; Xuanton Wang, University of Denver, *Implementing problem-based learning approach for geography education in K-12 settings*.**8:20** Sheng Miao\*, *Introduction of the Journal of Geography Teaching*.**8:40** Stefanie Zecha\*, Catholic University of Eichstätt, *Exploring EarthScience and environment: the role of EarthCaching*.**9:00** Tim Edgar\*, University of Utah, *Flipping the Classroom to Increase Student Success and Satisfaction in an Introductory Geography Statistics Course*.**9:20** Grant Saff\*, Hofstra University, *Globalization, neo-liberalism and the evolving academic landscape in the US*.**2168. The Futures of Atlases - Papers (Sponsored by Cartography Specialty Group)****Room:** St. Botolph, Marriott, Second Floor (Paper Session)

ORGANIZER(S): Francis Harvey, Leibniz-Institute for Regional Geography; Benjamin D. Hennig, University of Iceland/University of Oxford

CHAIR(S): Anne Kelly Knowles, University of Maine

Introducer: Anne Kelly Knowles

**8:02** Francis Harvey\*, Leibniz-Institute for Regional Geography, *Herbert Bayer's 1953 World Geo-Graphic Atlas: A**Novel Atlas? then and now.***8:18** Gregory H. Chu\*, UWisconsin-La Crosse; Jongnam Choi, Western Illinois University; Chul Sue Hwang, Kyung Hee University, Seoul, Korea, *Nation Building and the Structure of The National Atlas of Korea*.**8:34** Benjamin D. Hennig\*, University of Iceland/University of Oxford, *The Human Atlas of Europe*.**8:50** James Cheshire\*, University College London, *Open Data Atlases*.**9:06** Alicia Cowart, PhD\*, University of California, Berkeley; Darin Jensen, University of California; Susan Powell, University of California, Berkeley, *The maps come first: allowing crowdsourced content to define the atlas narrative*.**9:22** Aileen R. Buckley, Ph.D.\*, Esri; Greg Allord, Esri Contractor, *Atlas Mapping in The Hybrid Age*.**2169. Journal publishing in geography: non-commercial alternatives, and restoring control by academics (Sponsored by AAG Careers and Professional Development Theme)****Room:** Regis, Marriott, Third Floor (Panel Session)

ORGANIZER(S): Simon P J Batterbury, Lancaster University

CHAIR(S): Simon P J Batterbury, Lancaster University

Discussant(s): John Finn, Christopher Newport University; Elaine Hartwick, Framingham State University; Simon Springer, University of Victoria

Panelists: Simon P J Batterbury, Lancaster University; Richard Peet, Clark University; Lawrence D. Berg, University of British Columbia; Kirsi Pauliina Kallio, University of Tampere

**2170. Sustainability, Livability and Quality of Life of Communities, Urban, or Place (Sponsored by Urban Geography Specialty Group)****Room:** Northeastern, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Sunhui Sim, University of North Alabama

CHAIR(S): Sunhui Sim, University of North Alabama

**8:00** Sunhui Sim\*, University of North Alabama; Jonghyun Baik, Rural Research Institute of Korea Rural Community Corporation, *Composite Indicator Visualization on Livability*.**8:20** Kathryn Zimmerman, M.S., Resource Management\*, Central Washington University, *Sustainability Policy's Inherent Dilemmas, exemplified via critical examination of the Las Vegas metropolitan sustainability campaign*.**8:40** Henry Way\*, James Madison University, *The Challenges of Green Spaces in Smaller Cities*.**9:00** Maryam Nastar\*, Lund University; Jennifer Isoke, Makerere University; Robinah Kulabako, Makerere University; Giorgia Silvestri, DRIFT, *Neighborhood mobilization: Challenges and opportunities*.**9:20** Yi-Ju Lin\*, Jen-Jia Lin, *Accessibility, mobility and quality of life in rural areas*.**2171. Practical pragmatism: Towards a 'post-critical' urban political geography? (Sponsored by Political Geography Specialty Group, Urban Geography Specialty Group)****Room:** Brandeis, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Laura Cesafsky; Ryan Holifield, University of Wisconsin - Milwaukee

CHAIR(S): Laura Cesafsky

**8:00** Laura Cesafsky\*, University of Minnesota, *Saying 'Yes' to the World: Dewey and Scholarly Affect*.**8:20** Ryan Holifield\*, University of Wisconsin - Milwaukee, *Democratic Politics and Urban Environmental Change: A Preliminary Framework for a Pragmatist Urban Political Ecology*.**8:40** Meg Holden\*, Simon Fraser University, *Why the cash value of contemporary pragmatism for geography depends on more than its materialism*.**9:00** Kathryn Furlong\*, Université De Montréal; Marie-Noëlle



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Carré\*, *Urban service provision: Insights from pragmatism and ethics.*

Discussant(s): Robert W. Lake, Rutgers University

## 2172. Urban Forestry and Arboriculture (Sponsored by Urban Geography Specialty Group, Biogeography Specialty Group)

Room: MIT, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Andrew Millward, Ryerson University

CHAIR(S): Andrew Millward, Ryerson University

8:00 Andrew A Millward, PhD\*, Ryerson University, Geography and Environmental Studies; Michael Grosu, BA, Ryerson Urban Forest Research & Ecological Disturbance (UFRED) Group; Christopher Scarpone, MSc, Ryerson Urban Forest Research & Ecological Disturbance (UFRED) Group, *Thriving or merely surviving? The importance of solar radiation access to urban tree vitality.*

8:20 Vadim Sabetski, MSA\*, Urban Forest Research & Ecological Disturbance (UFRED) Group, Ryerson University; Andrew A Millward, PhD, Ryerson University, Geography and Environmental Studies, *From invader to occupier: application of dendrochronology and spatial modelling to investigate the spatio-temporal dynamics of Norway maple colonization of an urban park.*

8:40 Ruiliang Pu, PhD\*, University Of South Florida; Shawn Landry, PhD, University of South Florida, *A Study on the Potential of High Resolution Worldview-2 Imagery for Discriminating Urban Tree Species.*

9:00 Jason R Parent, PhD\*, University of Connecticut, *Assessing Tree Risk to Utility Infrastructure through Remote Sensing.*

9:20 Emily A. Ellis\*, Oklahoma State University; Adam J. Mathews\*, Oklahoma State University, *A Lidar-based Approach to Assess Vegetation Change in the Urban Environment: A Study of Oklahoma City, 2006 to 2013.*

## 2173. Conservation Extraction Conundrum I (Sponsored by Rural Geography Specialty Group, Energy and Environment Specialty Group)

Room: Boston University, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Timothy B. Norris, University of Miami; Francis Masse, York University; Devin Holterman, York University

CHAIR(S): Timothy B. Norris, University of Miami

Introducer: Timothy B. Norris

8:05 Devin Holterman\*, York University, *The Extractive Industries and Conservation: Questioning Trends in Corporate Social Responsibility.*

8:25 Dave Knieter\*, West Virginia University, *There for the Kill: An Analysis of Trophy Hunting, Neoliberal Conservation, and the Green Economy at Safari Club International's Annual Hunters' Convention.*

8:45 Gabrielle A. Slowey, Dr.\*, York University/Dartmouth College, *The calm before the storm: Ecological Knowledge and Caribou Conservation in the NWT, Canada.*

9:05 Ryan D. Bergstrom, PhD\*, University of Minnesota Duluth, *The Curious Case of Cuyuna: From Iron Ore Extraction to World Class Mountain Biking.*

Discussant(s): Dianne E. Rocheleau, Clark University

## 2174. Housing Commons and the Democratization of the Urban

Room: Simmons, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Marc Parés, Universitat Autònoma de Barcelona; Mara Ferreri, IGOP

CHAIR(S): Marc Parés, Universitat Autònoma de Barcelona

8:00 Emma Griffin\*, University West of England, *Narratives of empowerment and insurgency: understanding participation in a Community Land Trust housing project.*

8:20 Mara Ferreri, Dr\*, IGOP, *Housing commoning between*

*resistance and propositional action.*

8:40 Nele Aernouts, Cosmopolis Centre for Urban Research - Vrije Universiteit Brussel; Michael Ryckewaert\*, Cosmopolis Centre for Urban Research - Vrije Universiteit Brussel, *Sustaining or destroying housing commons? The complex interplay between government involvement and differentiated forms of commoning.*

9:00 Marc Parés\*, Universitat Autònoma de Barcelona, *Housing coproduction in Spain: radical democracy, social impact and scalability.*

Discussant(s): Amanda Huron, University of the District of Columbia

## 2175. Geospatial Health Research Symposium: Children and Adolescents Health I & Peter Gould Undergraduate Competition (Sponsored by Geographic Information Science and Systems Specialty Group, Urban Geography Specialty Group, Health and Medical Geography Specialty Group)

Room: Suffolk, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Eric M. Delmelle, University of North Carolina at Charlotte; Michael J. Widener, University of Toronto; Mei-Po Kwan, University of Illinois at Urbana-Champaign

CHAIR(S): Alan M. Delmerico, Institute for Community Health Promotion

8:00 Suzanne Tillmann\*, University of Western Ontario; Danielle Tobin, PhD, University of Western Ontario; Jason Gilliland, PhD, University of Western Ontario, *Health benefits of children's connection with nature: A systematic review.*

8:20 Alan M. Delmerico, PhD\*, Institute for Community Health Promotion; William F Wiecezorek, PhD, Institute for Community Health Promotion, *Adolescent Exposure to Risky Environments: Preliminary Analyses of Activity Spaces for an Adolescent Urban Sample.*

8:40 Kathryn M Kulbicki\*, Westat, *Placement Stability for Children in Foster Care.*

9:00 Kathleen R. Weimer\*, University of Colorado At Boulder; Carson JQ Farmer, PHD, University of Colorado Boulder; Colleen E Reid, PHD, MPH, University of Colorado Boulder, *The Geography of US Cesarean Sections: Spatial Distributions of Rapidly Changing Health Standards.*

9:20 Evan M. de Joya, Undergraduate Student\*, Department of Geography and Regional Studies, University of Miami, Coral Gables, FL; Imelda K. Moise, Ph.D., MPH, Department of Geography and Regional Studies, Department of Public Health Sciences, University of Miami, Coral Gables, FL, *A Geographic Analysis of Adolescent Alcohol-related Trauma Hospitalizations and Neighborhood Correlates, Cook County, Illinois, 2010-2015.*

## 2176. Symposium on Human Dynamics in Smart and Connected Communities: Smart Cities and Urban Computing 5 (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group, Spatial Analysis and Modeling Specialty Group)

Room: Wellesley, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Xinyue Ye, Kent State University; Shaowen Wang, University of Illinois at Urbana-Champaign

CHAIR(S): Liping Yang, Pennsylvania State University

8:00 Sha Li\*, School of Law & Politics and Economics & Business, chongqing university of science and technology; Sha Li; Xinyue Ye, Department of Geography, Kent State University, Ohio, USA, *Urban Shrinking in China: a review.*

8:20 Liping Yang\*, Pennsylvania State University; Guido Cervone, Pennsylvania State University; Elena Sava, Pennsylvania State University; Scott Pezanowski, Pennsylvania State University; Yuying Ren, Pennsylvania State University; Alan MacEachren,

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Pennsylvania State University, *Data fusion of social media and remote sensing imagery for flood assessment*.

- 8:40** Huan Li\*, Nankai University, *Spatial-temporal Evolution of Urban Density in Polycentric Megalopolis along Yangtze River Basin, China*.

Discussant(s): Bo Zhao, Oregon State University

**2177. Scale mismatches in socioecological systems I: Land-based Systems (Sponsored by Cultural and Political Ecology Specialty Group, Rural Geography Specialty Group, Human Dimensions of Global Change Specialty Group)**

*Room:* Harvard, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Alexandra Paige Fischer, University of Michigan; Matthew Hamilton, University of Michigan

CHAIR(S): Alexandra Paige Fischer, University of Michigan

- 8:00** Alexandra Paige Fischer, PhD\*, University of Michigan, *Addressing Scale Mismatches through Coordinated Land Management across Ownership Boundaries*.

- 8:20** Jesse S. Sayles\*, McGill University, *Multilevel scale mismatches in estuary restoration: challenges and opportunities*.

- 8:40** Jeremy B Pittman, PhD\*, University of Waterloo; Steven Alexander, PhD, National Socio-Environmental Synthesis Center; Graham Epstein, PhD, University of Waterloo; Derek Armitage, PhD, University of Waterloo, *Social-ecological fit and issues of scale in Caribbean Small Island Developing States*.

- 9:00** Matthew Hamilton\*, University of Michigan; Paige Fischer, University of Michigan; Lorien Jasny, University of Exeter, *Aligning scales of risk and response: Insights from wildfire management networks in the eastern Cascades, Oregon*.

- 9:20** Lorien Jasny\*, University of Exeter; Lindsay Campbell, US Forest Service; Michelle Johnson, US Forest Service; Erika Svendsen, US Forest Service; Dana Fisher, University of Maryland, *What role do geographic and social proximity play in environmental stewardship Networks?*

**2179. Clandestine dynamics II: informal and illicit transactions, markets and rent-seeking activities as drivers of land change (Sponsored by Human Dimensions of Global Change Specialty Group, Geographies of Food and Agriculture Specialty Group, Economic Geography Specialty Group)**

*Room:* Arlington, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Beth Tellman, Arizona State University; Karina Benessaiah, Arizona State University; David J. Wrathall, Oregon State University

CHAIR(S): Beth Tellman, Arizona State University

- 8:00** Beth Tellman\*, Arizona State University; Hallie Eakin, PhD, Arizona State University; Felipe De Alba, PhD, CESOP; Marco Janssen, PhD, Arizona State University, *Institutional Entrepreneurs and Informal Urban Land Transactions in Mexico City*.

- 8:20** Justine Law\*, Denison University, *Wild or cultivated? The politics of ginseng production in Appalachia*.

- 8:40** Jenny E Goldstein\*, Cornell University, *Turning farmers into arsonists: Land, rent-seeking, and the criminalization of fire in Indonesia*.

- 9:00** Heidi Hausermann\*, Rutgers University, *Expansion of unregulated gold mining along Ghana's Offin River: complex land transactions and livelihood transformations*.

Discussant(s): Hallie Eakin, Arizona State University

**2180. Symposium on Human Dynamics in Smart and Connected Communities: Big Movement Data for Geospatial Analytics on Urban Interactions (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group, Spatial Analysis and Modeling Specialty Group)**

*Room:* Berkeley, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Junjun Yin, Department of Geography and Geographic Information Science; Kathleen Stewart, University of Maryland

CHAIR(S): Kathleen Stewart, University of Maryland

- 8:00** Taylor M Oshan, PhD Candidate\*, Arizona State University, *Exploring Spatial and Temporal Dynamics in Spatial Interaction Data*.

- 8:20** Yizhao Gao\*, University of Illinois; Ting Li, University of Illinois; Shaowen Wang, University of Illinois; Myeonghun Jeong, University of Illinois; Kiumars Soltani, University of Illinois, *A multidimensional spatial scan statistics approach to movement pattern comparison*.

- 8:40** Luwei Chen\*, Cornell University, *Twitter as a data source for understanding urban space functions: A case of Liverpool, England*.

- 9:00** Qian Yu\*, University of Massachusetts-Amherst; Yue Xu, University of Massachusetts-Amherst; Brenda Philips, University of Massachusetts-Amherst, *Movement data analysis in response to severe weather forecasts and warnings*.

- 9:20** Junjun Yin\*, University of Illinois at Urbana-Champaign, *A mobility network approach to modelling urban spatial interactions: Insights from the movement Big Data in New York City*.

**2181. Issues in Ethnicity and Race**

*Room:* Clarendon, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Joseph Mensah, York University

- 8:00** Sherene Razack\*, UCLA, *A Sight/site We Cannot Bear: The Eviction from Public Space of Women Wearing the Niqab*.

- 8:20** Amie Thurber\*, Vanderbilt University, *The Neighborhood Story Project: Resisting displacements*.

- 8:40** Joshua Eichen\*, University of Minnesota, *Environment-Making and Subjectivity-Making: Thinking The Anthropocene, Race, & Sugar Plantations*.

- 9:00** Brad Huff\*, Columbus State University; Gary Sprayberry, PhD, Columbus State University, *Summer of Fire*.

- 9:20** Joseph Mensah\*, York University, *"?But some?are more equal than others:?" Ethno-racial identity and truncated citizenship among Blacks in Canada*.

**2182. Crisis-modes I: logics, practices and re-articulations (Sponsored by Political Geography Specialty Group, Socialist and Critical Geography Specialty Group)**

*Room:* Dartmouth, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Melissa Fernandez; Javier Arbona, UC Davis

CHAIR(S): Melissa Fernandez

Introducer: Melissa Fernandez

- 8:10** Jovan Scott Lewis, Ph.D.\*, University of California - Berkeley, *Hardship in the Heartland*.

- 8:30** Maryam Monalisa Gharavi\*, Harvard University, *Sine Cura: Security as Unstable Ground*.

Discussant(s): Javier Arbona, UC Davis

**2183. Hurricanes I: climatology (Sponsored by Coastal and Marine Specialty Group)**

*Room:* Exeter, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Harry Williams, University of North Texas; Kam-Biu Liu, Louisiana State University

CHAIR(S): Harry Williams, University of North Texas

- 8:00** Yu Wang\*, University of Florida; Corene Matyas, University of Florida, *Simulating Effects of Land Cover/Use Changes on Landfalling Tropical Cyclone Rainfall Patterns using Weather Research Forecasting (WRF) Model*.

- 8:20** James Bramante\*, Woods Hole Oceanographic Institution; Jeffrey Donnelly, Woods Hole Oceanographic Institution, *Tropical Cyclone Frequency Over the Past*

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*Three Centuries in the Southeastern Extremes of the Western North Pacific.*

**8:40** Stephanie E. Zick\*, Virginia Tech, *A Global Study of Synoptic-Scale Changes in Tropical Cyclone Structure and the Relationship to Large-Scale Moisture.*

**9:00** Anna Marie Trevino\*, AIR Worldwide; Peter Sousounis, Ph.D., AIR Worldwide, *Trends in tropical cyclone landfall frequency and steering mechanisms in the Northwest Pacific Basin.*

**9:20** Peter John Sousounis\*, AIR Worldwide; Anna Trevino, AIR-Worldwide, *Synoptic Climatology of Asymmetric Wind Distributions for Tropical Cyclones in the North Atlantic and Northwest Pacific Basins.*

**2184. Higher Education, Disparity and Access**

*Room:* Fairfield, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Meaghan Daly, University of Colorado

**8:00** Jennifer Villa\*, Texas State University - San Marcos, *Spatial and Temporal Growth Analysis of Geography-Based Academic Female Geomorphologists in The United States.*

**8:20** RAJESH KUMARI\*, Govt. college Badli Jhajjar, Haryana (India), *Rural-Urban Gender Disparities In Access To Higher Education In Haryana (India).*

**8:40** Mariana Araujo Lamego, Associate Professor\*, State University of Rio de Janeiro (UERJ), *The women from the Brazilian Institute of Geography and Statistics: on new narratives of Brazilian geographical knowledge.*

**9:00** MUSTAFA YILMAZ\*, Bülent Ecevit University, *Bachelor Education in Geography Departments in the United States.*

**9:20** Meaghan Daly\*, University of Colorado; Mara Jill Goldman, Ph.D., University of Colorado Boulder; Lisa Dilling, Ph.D., University of Colorado Boulder, *Reproducing Intersections of Power? Reflecting on Feedback Processes within Fieldwork.*

**2186. Design, Biopolitics, and Resilience in a Complex World I (Sponsored by Political Geography Specialty Group, Cultural and Political Ecology Specialty Group)**

*Room:* Salon I, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Kevin Grove, Florida International University; Sara Holiday Nelson, University of Minnesota

CHAIR(S): Sara Holiday Nelson, University of Minnesota

**8:00** Lauren Amy Rickards\*, RMIT University, *Intersections of design thinking and resilience thinking in the Anthropocene.*

**8:20** Kevin Grove\*, Florida International University, *Putting Hayek in his place: towards a counter-genealogy of resilience.*

**8:40** Victoria Marshall\*, NUS, *Re-drawing Urban Ecologies: Critical Design Practice.*

**9:00** Stephanie Wakefield\*, CUNY Graduate Center; Stephanie Wakefield, PhD, Queens College, *Urban Experimentation is the way to inhabit the Anthropocene.*

Discussant(s): David Chandler, University of Westminster

**2187. Author-meets-readers: Eric Sheppard's "Limits to Globalization" (Sponsored by Socialist and Critical Geography Specialty Group, Development Geographies Specialty Group, Economic Geography Specialty Group)**

*Room:* Salon J, Marriott, Fourth Floor (Panel Session)

ORGANIZER(S): Bruce Braun, University of Minnesota - Minneapolis

CHAIR(S): Bruce Braun, University of Minnesota - Minneapolis

Introducer: Bruce Braun

Discussant(s): Susan M. Roberts, University Of Kentucky; Eric S. Sheppard, UCLA

Panelists: Marion Werner, University at Buffalo, SUNY; Weidong Liu, Chinese Academy of Sciences; Joel D Wainwright,

The Ohio State University

**2188. Geodesign Education Part 1: A Panel Discussion on Challenges and Opportunities (Sponsored by Geography Education Specialty Group)**

*Room:* Salon K, Marriott, Fourth Floor (Panel Session)

ORGANIZER(S): Darren Ruddell, University of Southern California

CHAIR(S): Darren Ruddell, University of Southern California

Panelists: Allan W. Shearer, The University of Texas at Austin;

Travis Longcore, University of Southern California;

Tess Canfield; Carl Steinitz, Harvard University

**2189. Deforestation and forest degradation in the Congo Basin - 1 (Sponsored by Geographic Information Science and Systems Specialty Group, Remote Sensing Specialty Group, Africa Specialty Group)**

*Room:* Vineyard, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Giuseppe Molinaro, University of Maryland

CHAIR(S): Giuseppe Molinaro, University of Maryland

**8:00** Elizabeth Goldman, GISP\*, World Resources Institute, *Spatial modeling of deforestation processes in the Democratic Republic of the Congo's CARPE Landscapes.*

**8:20** Patrick K Lola Amani\*, University of Maryland College Park; Matthew C Hansen, University of Maryland College Park, *Mapping human settlements and population distribution in the Democratic Republic of Congo using Landsat data.*

**8:40** Gisele M. Ngilambi\*, University of Maryland College Park; Giuseppe Molinaro, University of Maryland College Park; Patrick K Lola Amani, University of Maryland College Park, *An exploratory analysis of the relationship between the quantity of green space and children's health in the Democratic Republic of Congo.*

**9:00** Catherine Windey\*, Institute of Development Policy and Management, University of Antwerp, *Exploring diverse socio-economies in the context of REDD+ in the Democratic Republic of Congo.*

**9:20** Giuseppe Molinaro\*, University of Maryland, *Mapping shifting cultivation in the Democratic Republic of Congo.*

**2190. Towards feminist productions of space: New intersections of Lefebvre and critical feminist scholarship (Sponsored by Geographic Perspectives on Women Specialty Group)**

*Room:* Yarmouth, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Kaitlin Fertaly, University of Colorado at Boulder

CHAIR(S): Kaitlin Fertaly, University of Colorado at Boulder

**8:00** Caitlin Grann\*, University of New Mexico, *The Shape of Space in Albuquerque, New Mexico: An Exploration of Rhythm, Space, and Ordinary Affects through the Art of Bookmaking.*

**8:17** Kaitlin Fertaly\*, University of Colorado at Boulder, *Bringing Lefebvre Home: Exploring Lefebvre's Contributions to the Production of Intimate Space.*

**8:34** Jana Pokraka\*, University of Duisburg-Essen, *Crossing Lines - Children's (Re-) Production of Space from an Intersectional Perspective.*

**8:51** Anne-Marie Hanson, PhD\*, University of Illinois Springfield, *Marine debris and the production of garbage, nature, and gendered spaces of development in coastal Yucatán.*

**9:08** Chen David Misgav\*, Ben Gurion University; Tovi Fenster, Tel-Aviv University, *Day by Day - Protest by Protest: Temporal Activism and the Feminist Mizrahi Right to the City.*

**9:24** Eden Kinkaid\*, Pennsylvania State University, *Viewing Slantwise: Queering The Production of Space through Film.*



**THURSDAY, April 6 • 8:00 AM - 9:40 AM • 2100****2191. Heatwaves and Droughts***Room: Nantucket, Marriott, Fourth Floor (Paper Session)*

ORGANIZER(S): Program Committee

CHAIR(S): Jose Javier Hernandez Ayala, Texas A&amp;M University

**8:00** Gwangyong Choi\*, Jeju National University; David A. Robinson, Rutgers, The State University of New Jersey, *Changing Global Subtropical High Pressure Regimes in the Warmer Climate.*

**8:20** David Keellings, PhD\*, University of Alabama; Erin Bunting, PhD, United States Geological Survey, Flagstaff, Arizona, USA, *Spatiotemporal Trends in Heat Waves Over North America.*

**8:40** Barbaros Gonençgil\*, Istanbul University; Zahide Acar Deniz, Çanakkale Onsekiz Mart University, *Hot Temperature Extremes in Turkey.*

**9:00** Xiaohua Gou\*, Key Laboratory of Western China's Environmental Systems (Ministry of Education), School of Earth and Environmental Sciences, Lanzhou University, Lanzhou 730000, China; Yang Deng, Key Laboratory of Western China's Environmental Systems (Ministry of Education), School of Earth and Environmental Sciences, Lanzhou University, Lanzhou 730000, China, *Millennium drought variability on the Tibetan Plateau as recorded by Tree-ring.*

**9:20** Jose J. Hernandez Ayala, PhD\*, Texas A&M University, *Spatial analysis of rainfall for recent drought events in The Caribbean using the standardized precipitation index (SPI).*

**2192. Human Rights and Critical Geopolitics of Outer Space***Room: Provincetown, Marriott, Fourth Floor (Paper Session)*

ORGANIZER(S): Julie Michelle Klinger, Boston University; Daniel Bednar, Western University

CHAIR(S): Daniel Bednar, Western University

**8:00** Julie Michelle Klinger\*, Boston University, *Environmental Justice and Outer Space.*

**8:20** Oliver Dunnett, PhD\*, Queen's University Belfast, *Arthur C Clarke and the Global Village - Satellites technologies and the developing world.*

**8:40** Julie Saperstein\*, University of Missouri - Columbia, *Opening the black box of outer space: the case of JASON-3.*

**9:00** Katherine Genevieve Sammler, PhD\*, California State University - Maritime Academy; Casey Lynch, University of Arizona, *Spaceport America: Contested Offworld Access and the Everyman Astronaut.*

**9:20** Daniel Bednar\*, Western University, *A Critical Geopolitics of Space: Where has it been and where do we go?.*

**2193. Education and Geography Teaching (Sponsored by China Specialty Group)***Room: Orleans, Marriott, Fourth Floor (Paper Session)*

ORGANIZER(S): Xiaobo Su, University of Oregon

CHAIR(S): Trinity Anne Turner

**8:00** Yushan Duan\*, East China Normal University, *High School Geography Curriculum Reform in China.*

**8:20** Jingai Wang\*, Yao Jiang; Yuan Gao; Zhongwei Xiong, *Design and implementation of the test system of the course "Remote Sensing China".*

**8:40** Yao Zeyang\*, *What's the story? Reflection on the Inquiry-Based Teaching (IBT) development in teaching school geography from Hunan province in Middle China.*

**9:00** Maha Alhamadi\*, UAEU; Naeema Alhosani, UAEU, *From Boring Powerpoint to Interactive Fun-Engaging Your Students with Nearpod.*

**9:20** Trinity Anne Turner\*, Central Washington University; Robert Hickey, Ph.D, Central Washington University, *Evaluating ESRI Story Maps as a Vehicle for Teaching Cartographic Literacy.*

**2194. Risks and disasters in China-1 (Sponsored by China Specialty Group)***Room: Hyannis, Marriott, Fourth Floor (Paper Session)*

ORGANIZER(S): Xiaobo Su, University of Oregon

CHAIR(S): Jun Luo, Missouri State University

**8:00** Jun Luo\*, Missouri State University, *Spatialtemporal patterns for population mortality caused by chronic diseases: a case of Guangxi, China.*

**8:20** Bo Xu\*, California State University, San Bernardino, *Scenario-based community flood risk assessment: a case study of Taining county town, Fujian province, China.*

**8:40** Yaojie Yue\*, School of Geography, Beijing Normal University, Beijing 100875, China; Lin Wang, School of Geography, Beijing Normal University, Beijing 100875, China; Jian Li, School of Geography, Beijing Normal University, Beijing 100875, China; A-xing Zhu, Department of Geography, University of Wisconsin-Madison, Madison, Wisconsin 53706, U.S.A.; Jing'ai Wang, School of Geography, Beijing Normal University, Beijing 100875, China, *Wheat drought risk in China by the year of 2099: an EPIC model based simulation using new climate scenarios.*

**9:00** Han Zhang\*, Tsinghua University; Peng Gong, Tsinghua University; Joint Center for Global Change Studies, China, *Short-term Impacts of Floods on Bacillary Dysentery in Southwestern China, 2005-2011.*

**9:20** Mingzhong Xiao\*, Zhongbo Yu; Qiang Zhang, *Regional responses of seasonal precipitation extremes to the natural climate variability in the Poyang Lake basin, China.*

**2195. Impacts and Uncertainties of Land Use/Cover Change***Room: Falmouth, Marriott, Fourth Floor (Paper Session)*

ORGANIZER(S): Meimei Lin, Armstrong State University;

Zutao Yang, Michigan State University

CHAIR(S): Meimei Lin, Armstrong State University

**8:00** Weixing Zhang\*, University of Connecticut; Weidong Li, University of Connecticut; Chuanrong Zhang, University of Connecticut; Dean Hanink, University of Connecticut; Xiaojiang Li, University of Connecticut; Wenjie Wang, University of Connecticut, *Urban Land Use Classification with Google Street View.*

**8:20** Zutao Yang\*, Michigan State University; Peilei Fan, Michigan State University; ranjeet John, Michigan State University; Jiquan Chen, Michigan State University; Dengsheng Lu, Michigan State University, *A Hybrid Global Urban Built-up Area: Bayesian Sequential Integration toward Big Data.*

**8:40** Sara Epp\*, University of Guelph; James Newlands\*, University of Guelph, *From Planting to Paving: Measuring Farmland Loss in Ontario.*

**9:00** Yanlei Feng\*, Cornell University; Yi Qi, Nanjing University, *Calibration of Integrated Cellular Automaton Model of Urban Growth in China.*

**9:20** Meimei Lin, Armstrong State University, *Exploring the Relationship between Changes in Agricultural Yield and Cropland Area.*

**2196. Application of Unmanned Aerial Vehicles in Environmental and Resource Management (Sponsored by Geographic Information Science and Systems Specialty Group, Remote Sensing Specialty Group)***Room: Maine, Marriott, Fifth Floor (Paper Session)*

ORGANIZER(S): Anthony Ravindra Cummings, University of Texas at Dallas; Donna M. Delparte, Idaho State University

CHAIR(S): Anthony Ravindra Cummings, University of Texas at Dallas

**8:00** Donna M. Delparte\*, Idaho State University; Jennifer Forbey, Boise State University; Janet Rachlow, University of Idaho; Chelsea Merriman, Boise State

# THURSDAY, April 6 • 8:00 AM - 9:40 AM • 2100

University; Peter Olsoy, Washington State University; Lisa Shipley, Washington State University, *UAV Hyperspectral Imaging for Sagebrush Species Identification*.

**8:20** Mark Bauer\*, USGS, *Modeling Devils Tower, Wyoming using small Unmanned Aerial Systems (UAS) for baseline comparisons, highlighting UAS data acquisition methods*.

**8:40** Alexander Anthony Pakalniskis\*, CSU Long Beach; Paul Laris, CSU Long Beach; Rebecca Jacobs, CSU Long Beach, *Airborne Remote Sensing of Vegetation in a West African Savanna*.

**9:00** Tao Tang\*, State University of New York - Buffalo State, *Time Scale in Big Data GIS Analysis and Applications*.

**9:20** Bryn E. Morgan\*, Dartmouth College, *The ephemeral river as a linear oasis: Remote sensing of vegetation in the Kuiseb River, Namib Desert, Namibia*.

## 2197. Risk Communication and Resilience (Sponsored by Hazards, Risks, and Disasters Specialty Group)

*Room:* Massachusetts, Marriott, Fifth Floor (Paper Session)

ORGANIZER(S): Bandana Kar, University of Southern Mississippi; David M. Cochran, University of Southern Mississippi

CHAIR(S): Bandana Kar, University of Southern Mississippi

**8:00** Xiaohui Liu\*, The University of Southern Mississippi; Bandana Kar, The University of Southern Mississippi, *Spatiotemporal Data Mining to Extract Risk Information*.

**8:20** Chloe E. Magee, BS\*, University of Oklahoma DGES; Renee McPherson, South Central Climate Science Center; Carol Silva, National Institute for Risk and Resilience, *Decision Support Systems: An Interdisciplinary Geospatial Perspective to Tornado Warning Forecast Areas*.

**8:40** Joshua J Vertalka, Ph.D Candidate\*, Michigan State University, *Using Twitter as a Contributed Data Source to Predict Real-Time Influenza Emergency Room Admissions in New York City and London..*

**9:00** Karen M Wertz\*, Florida State University; Christopher K Uejio, Ph.D., Florida State University, *Florida County Emergency Management Agencies and Linguistically Isolated Households: An Analysis of Professional Knowledge and Guidance*.

## 2198. CURDS 40th Anniversary - urban and regional development: retrospect and prospect (Sponsored by Economic Geography Specialty Group)

*Room:* New Hampshire, Marriott, Fifth Floor (Panel Session)

ORGANIZER(S): Jane S. Pollard, Newcastle University; Danny Mackinnon, Newcastle University; Andy Pike, Newcastle University

CHAIR(S): Jane S. Pollard, Newcastle University

Panelists: Ron Boschma, Utrecht University; Jennifer Clark, Georgia Institute of Technology; Maryann Feldman; Danny Mackinnon, Newcastle University; Jamie Peck, University of British Columbia

## 2199. Demographic Fantasies, Fever Dreams, and the Unbearable Whiteness of Contemporary Politics (Sponsored by Political Geography Specialty Group, Geographic Perspectives on Women Specialty Group, Ethnic Geography Specialty Group)

*Room:* Vermont, Marriott, Fifth Floor (Panel Session)

ORGANIZER(S): Sara H. Smith, University of North Carolina; Christopher M. Neubert, University of North Carolina - Chapel Hill; Carolyn Gallaher, American University

CHAIR(S): Banu Gokariksel, University of North Carolina, Chapel Hill

Introducer: LaToya Eaves

Discussant(s): Joshua F. Inwood, Pennsylvania State University

Panelists: Carolyn Gallaher, American University; Toby Applegate, University of Massachusetts-Amherst; Robin Wright, University of Minnesota - Minneapolis; Nathan W. Swanson, University of North Carolina-Chapel Hill; Christopher M. Neubert, University of North Carolina - Chapel Hill



# THURSDAY, April 6 • 10:00 AM - 11:40 AM • 2200

Poster Sessions for Thursday are located on pages 174-182.

Marston, Kansas State University; Anne Chin,  
University of Colorado Denver

## 2201. Urban Cultural Studies

Room: Room 101, Hynes, Plaza Level (Interactive Short Paper Session)

ORGANIZER(S): Benjamin Fraser, East Carolina University

CHAIR(S): Benjamin Fraser, East Carolina University

Introducer: Benjamin Fraser

10:05 Gillian C. Rose, Prof\*, The Open University, *Digital/visual/urban*.

10:10 Andrew C Rajca\*, University of South Carolina, *Imagined Spatial Aesthetics and Everyday Life in São Paulo in Lina Chamie's A via láctea*.

10:15 Phillippa Gardner\*, University of Sheffield, *Remaking the Museum, Reshaping the City*.

10:20 Sinead Petrusek\*, *Allied with the Antimaravilla: Arts-based Community Practices and Resistance to Authorized Heritage Discourse in Quito, Ecuador*.

10:25 Juan Pablo Melo\*, Stanford University, *Building the Abstract Public Sphere: Enrique Peñalosa's Urbanism and the Production of Space in Bogotá*.

10:30 Allison Huetz\*, University of Geneva, *Fairground attractions and Amusements Parks in Geneva (1890-1914). Picturing the world, creating Weltstadt*.

10:35 Adam D. Morton\*, University of Sydney, *Spatial Serge: The Urban Revolution in Victor Serge*.

10:40 Nino Lannes Bozzetti Navarro\*, *London's literary landscapes: urban tensions in Zadie Smith's NW*.

10:45 Pablo Sendra\*, University College London, *Representation of London's Modernist Estates in Films: Communities and their Neighbourhoods as Movie Sets*.

10:50 Agustin Arosteguy\*, Federal University Of Minas Gerais; Agustin Arosteguy, PhD Student and writer, *The territory as a space for leisure*.

10:55 David L. Prytherch\*, Miami University, *Rendering a More "Complete Street": Mobility Justice from Planning Discourse to Urban Design*.

Discussant(s): Benjamin Fraser, East Carolina University

## 2202. Author Meets Critics: Global Urban Politics: Informalization of the State by J.A. Boudreau

Room: Room 102, Hynes, Plaza Level (Panel Session)

ORGANIZER(S): Liza Weinstein, Northeastern University

CHAIR(S): Liza Weinstein, Northeastern University

Discussant(s): Liza Weinstein, Northeastern University; Patrick Le Gales, Sciences Po; AbdouMalik Simone; Berna Turam, Northeastern University

Panelists: Julie-Anne Boudreau, INRS-Montreal

## 2203. Documenting Evidence for Human Rights Tribunals and Litigation Using Geographic Research and Tools (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme)

Room: Room 103, Hynes, Plaza Level (Panel Session)

ORGANIZER(S): John Wertman, American Association of Geographers; Mainstreaming Human Rights

CHAIR(S): Theresa Harris, AAAS

Panelists: Theresa Harris, AAAS; Susannah Sirkin, Physicians for Human Rights; Wesley J. Reisser, George Washington University; Ryan Burns, University of Calgary

## 2204. Mainstreaming Human Rights in Geomorphology and Water Resources (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme, Geomorphology Specialty Group)

Room: Room 104, Hynes, Plaza Level (Panel Session)

ORGANIZER(S): Sheryl Luzzadder-Beach, University of Texas-Austin

CHAIR(S): Sheryl Luzzadder-Beach, University of Texas-Austin

Introducer: Sheryl Luzzadder-Beach

Panelists: Mark Giordano, Georgetown University; Michael A. Urban, University of Missouri; Sheryl Luzzadder-Beach, University of Texas-Austin; Richard A.

## 2205. Hazards Risks and Disasters 7 - Social Vulnerability (Sponsored by Hazards, Risks, and Disasters Specialty Group)

Room: Room 105, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Eric Tate, University of Iowa; Johanna L.

Ostling

CHAIR(S): Eric Tate, University of Iowa

10:00 Brian Thomas Richardson\*, University of North Texas, *Measuring Population Vulnerability for Disaster Response Planning: A Theoretical Framework*.

10:20 Joseph Tuccillo\*, University of Colorado, Boulder; Seth Spielman, University of Colorado, Boulder, *Measuring Social Vulnerability to Environmental Hazards using Public Use Microdata*.

10:40 Ron R. Hagelman, III\*, Texas State University; Brendan L. Lavy\*, Texas State University; Shadi Maleki\*, Texas State University, *Geographic Patterns of Children in FEMA Disaster Declarations, 1990-2012*.

11:00 Samuel Rufat\*, *Validating Social Vulnerability Models and Measurements*.

## 2206. (De)Stigmatising Sexscapes: Politics, Policy and Performance III: 3. Governance, Policing and Design (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme, Sexuality and Space Specialty Group)

Room: Room 107, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Paul J. Maginn, University of Western Australia; Emily Cooper, University of Central Lancashire; Erin Sanders-McDonagh, Middlesex University

CHAIR(S): Gemma Commene, Birmingham City University

10:00 Nicole Kalms\*, Monash University, *Sex Shop / Pole Dance / Street Work: Heteronormative Architectures of the Neoliberal City*.

10:25 Erin Sanders-McDonagh\*, University of Kent, *Pushing sex work to the margins: The sanitization of Red Light Districts in Amsterdam and London*.

10:50 Paul J. Maginn\*, University of Western Australia; Emily Cooper, University of Central Lancashire, *On-street, Off-street, And Online: The Dynamic Liminalities Of Sex Work I*.

11:15 Alison Better\*, Kingsborough Community College, CUNY, *Constructing Space and Community for Sexual and Gender Exploration at Sex Toy Boutiques*.

## 2207. The 2016 Elections: Destabilization, Social Forces, and the Media

Room: Room 108, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): John Wertman, American Association of Geographers

CHAIR(S): Richard M. Medina, University of Utah

10:00 Richard M. Medina\*, University of Utah; Emily A Nicolosi, University of Utah, *Hate in the US: A Geographical Analysis of Movements and Activities*.

10:20 James Andrew Sevvitt\*, The Graduate Center - CUNY; James Sevvitt, PhD Student, The Graduate Center, CUNY, *Rethinking Political Subjectivities Amidst the Ongoing Crises of Liberal Democracy*.

10:40 Luca Muscarà\*, Università del Molise, *Similarities and differences between Trump and Berlusconi: which lessons for their opponents?*.

## 2208. Architecture as urban generator? Urban restructuring and urban regeneration 2/4 (Sponsored by Urban Geography Specialty Group, Cultural Geography Specialty Group, Economic Geography Specialty Group)

Room: Room 109, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Nadia Alaily-Mattar, Munich University of Technology; Johannes Dreher, Technical University

# THURSDAY, April 6 • 10:00 AM - 11:40 AM • 2200

Munich; Davide Ponzini

CHAIR(S): Alain Thierstein, Munich University of Technology

**10:00** Tuna Kuyucu\*, Bosphorus University, *The Great Failure: An Institutional Inquiry into Why Urban Regeneration Initiatives in Istanbul Fail.*

**10:20** Abigail Wincott\*, University of Brighton, *On the waterfront: Canals and their cultural 'assets' powering the heritage engine in post-industrial cities.*

**10:40** Srdjan Majdov\*, NEIU, *Taking place, (re)making nation: elite discourse of urban restructuring in Skopje, F. Y. R. of Macedonia.*

**11:00** Nadia Alaily-Mattar\*, Munich University of Technology, *Transforming the media landscape of a city through flagship architecture?.*

Discussant(s): Isabelle Schoepfer, University of Fribourg, Switzerland

- 2209. What does it mean to do interdisciplinary research on past environments? Exploring mixed methods in geography through the lens of critical physical geography - Part 2 (Sponsored by Historical Geography Specialty Group)**
- Room:* Room 110, Hynes, Plaza Level (Paper Session)
- ORGANIZER(S): Kirsten Greer, Nipissing University
- CHAIR(S): Arn Keeling, Memorial University of Newfoundland
- 10:00** Matthew Bampton\*, Geography-Anthropology, University of Southern Maine; Alice Kelley, Climate Change Institute, University of Maine; Joesph Kelley, Climate Change Institute, University of Maine; Michael Jones, History, Bates College; Gerald Bigelow, History, Bates College, *Little Ice Age Catastrophic Storms and the Destruction of a Shetland Island Community.*
- 10:20** Chris S Larsen\*, University At Buffalo; David Robertson, SUNY Geneseo; Steve Tulowiecki, SUNY Geneseo, *Three geographers walked into a forest: Struggling towards interdisciplinarity through the Genesee Oaks.*
- 10:40** Scott A. Mensing\*, University of Nevada - Reno; Ned Schoolman, University of Nevada, Reno; Gianluca Piovesan, Tuscia University, Viterbo, Italy, *Local Patterns of Land Use in Early Medieval Italy: Human impact on the ecology and landscape of the Rieti Basin, 600-1000 AD.*
- Discussant(s): Rebecca Lave, Indiana University; Maria D. Lane, University of New Mexico

- 2210. Planetary Urbanization 2: Ecology, Politics and the Anthropocene**
- Room:* Room 111, Hynes, Plaza Level (Panel Session)
- ORGANIZER(S): Christian Schmid, ETH Zurich
- CHAIR(S): Christian Schmid, ETH Zurich
- Introducer: David Wachsmuth
- Discussant(s): Erik Swyngedouw, University of Manchester
- Panelists: Jean-Paul Addie, University College London; Jason W. Moore; Daniel Aldana Cohen, University of Pennsylvania
- 2211. Area Development and Policy (Sponsored by China Specialty Group, Regional Development and Planning Specialty Group, Asian Geography Specialty Group, Routledge)**
- Room:* Room 200, Hynes, Second Level (Panel Session)
- ORGANIZER(S): Xinyue Ye, Kent State University; Weidong Liu, Chinese Academy of Sciences
- CHAIR(S): Weidong Liu, Chinese Academy of Sciences
- Introducer: Weidong Liu
- Discussant(s): Eric S. Sheppard, UCLA; George C.S. Lin, University of Hong Kong
- Panelists: Gordon L. Clark, Smith School of Enterprise and the Environment

- 2212. Making a Resource II: Political Economies of Shale Fuels (Sponsored by Energy and Environment Specialty Group)**
- Room:* Room 201, Hynes, Second Level (Paper Session)
- ORGANIZER(S): Jennifer Baka, Pennsylvania State University;

Elvin Delgado, Central Washington University; Arielle Hesse, Penn State

CHAIR(S): Matthew Fry, University of North Texas

**10:00** Heather Plumridge Bedi, PhD\*, Dickinson College, *Hydraulic Fracturing, Energy Independence, and the Politics of Energy Discourses.*

**10:20** Gretchen Leigh Sneegas\*, University of Georgia, *Producing farmers, consuming expertise: Land grant colleges and the production of neoliberal environmentalism in the context of shale gas development.*

**10:40** Elvin Delgado\*, Central Washington University, *State, Community, and Energy Independence? Implications of Fracking Vaca Muerta in Northern Patagonia, Argentina.*

Discussant(s): Jennifer Baka, Pennsylvania State University

- 2213. Geographies of Food and Agriculture Special Topics - Food security and alternative food networks (Sponsored by Geographies of Food and Agriculture Specialty Group)**
- Room:* Room 202, Hynes, Second Level (Paper Session)
- ORGANIZER(S): Colleen Hammelman
- CHAIR(S): Levi Joseph Winegar, University of Kansas
- 10:00** Adrian Lue\*, University of Toronto - Mississauga; Tenley Conway, Dr., University of Toronto, *Experiences of Community Gardens Participants in Different Types of Gardening Spaces in Toronto, Canada.*
- 10:20** Arianna Muirow\*, University of Washington, *Exploring the Online Farmer's Market: Alternative Food Networks and Neoliberal Economies.*
- 10:40** April Karen Baptiste\*, Colgate University; Christopher Henke, PhD, Colgate University, *Access to Locally-Produced Food for Low-Income Residents of Upstate New York.*
- 11:00** Daniel Luke Kpienbaareh\*, The University of Akron; Majed Alhasani, University of Akron; Shanon Donnelly, University of Akron, *Closing the Loop: Using GIS to Route Food Waste to Community Garden Compost Sites in Akron, OH.*

- 2214. Career Mentoring B (Sponsored by AAG Careers and Professional Development Theme)**
- Room:* Room 203, Hynes, Second Level (Panel Session)
- ORGANIZER(S): Mark Revell, American Association of Geographers
- CHAIR(S): Mark Revell, American Association of Geographers
- Discussant(s): Paul N. McDaniel, Kennesaw State University; Jonathan Wessell, Grand Valley State University; Lisa Rainey Brownell, Ohio State Historic Preservation Office; John Sauvageau, Santander Bank, N.A.; Michaela Buenemann, New Mexico State University

- 2216. Preparing Geographers for Government and Nonprofit Careers (Sponsored by AAG Careers and Professional Development Theme)**
- Room:* Room 205, Hynes, Second Level (Panel Session)
- ORGANIZER(S): Mark Revell, American Association of Geographers
- CHAIR(S): Michael N. Solem, American Association of Geographers
- Discussant(s): James A. Brey, American Meteorological Society
- Panelists: Catherine P. Bishop, University of New England; John Wertman, American Association of Geographers; Heather R. Houlton, American Geosciences Institute; Francis P. Boscoe, New York State Department of Health; Lucy Stanfield, US Environmental Protection Agency

- 2217. Participatory Research in Geography 2: Techniques (Sponsored by AAG Mapathon, Environmental Perception and Behavioral Geography Specialty Group)**
- Room:* Room 206, Hynes, Second Level (Paper Session)

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ORGANIZER(S): Jerry Shannon, University of Georgia;  
Ian Rossiter, University of Georgia; Dorris Scott,  
University of Georgia

CHAIR(S): Ian Rossiter, University of Georgia

**10:00** Jake Wade\*, SUNY Geneseo; Amanda Ashby\*, University of Central Florida; Sarah Kuo, University of the Pacific; Jasmine Perez, University of Miami; Tim Hawthorne, Dr., University of Central Florida; Christy Visaggi, Dr., Georgia State University; Lain Graham, University of Central Florida; Nick Altizer, University of Central Florida; Christine Munisteri, Skidmore College, *Building Data from the Ground Up for Flooding and Disaster Management in Hopkins, Belize*.

**10:20** Jerry Shannon\*, University of Georgia, *Smart Maps for Small Cities: Visualizing Housing Conditions with Open Source Tools*.

**10:40** Heather Fischer\*, Arizona State University, *Tourist-Volunteered Geographic Information*.

**11:00** Hannah Kay Bonestroo\*, Macalester College; Saraneh Fitzgerald\*, Clark University; Christine Munisteri, Skidmore College; Ashley Little, Georgia State University; Caleb Ball, The Ohio State University; Timothy Hawthorne, University of Central Florida; Christy Visaggi, Georgia State University; Lain Graham, University of Central Florida; Nicholas Altizer, University of Central Florida, *Understanding Coastal Marine Debris Through Participatory Geographic Information Systems*.

**11:20** Donald Lafreniere\*, Historical Environments Spatial Analytics Lab, Michigan Tech University; Sarah Fayen Scarlett, Historical Environments Spatial Analytics Lab, Michigan Tech University; John Arnold, Historical Environments Spatial Analytics Lab, Michigan Tech University; Daniel Trepal, Historical Environments Spatial Analytics Lab, Michigan Tech University, *Empowering Heritage Preservation, Environmental Policy, and GIS Education through Historical PPGIS and Mobile Big Data*.

## 2219. AAG Department Leadership Symposium II: Making the Case for Geography (Sponsored by Geography Faculty Development Alliance (GFDA), Enhancing Departments and Graduate Education project (EDGE))

Room: Room 210, Hynes, Second Level (Panel Session)

ORGANIZER(S): Kenneth E. Foote, University of Connecticut; Francis Koti, University of North Alabama

CHAIR(S): Kenneth E. Foote, University of Connecticut

Discussant(s): Maureen Hays-Mitchell, Colgate University; M. Duane Nellis, Texas Tech University

## 2220. GIS and Technology Poster Session

Posters for this session can be found on pages 174-178.

Room: Hall C, Hynes, Second Floor (Poster Session)

This session is a continuation of the previous timeslot, 2120.

## 2221. Robotic Futures 2: Algorithmic Subjectivities (Sponsored by Health and Medical Geography Specialty Group)

Room: Room 301, Hynes, Third Level (Paper Session)

ORGANIZER(S): Lily A. House-Peters, California State University, Long Beach; Jeremy Crampton, University of Kentucky; Vincent J. Del Casino, University of Arizona

CHAIR(S): Jeremy Crampton, University of Kentucky

**10:00** Nancy Ettlinger, PhD\*, Ohio State University, *Affordances of Algorithmic Subjection for Resistance in the Digital Era*.

**10:20** John Hessler\*, Library of Congress, *How far can they go? Robots, Convolutional Neural Networks, and Model-Free Reinforcement Learning*.

**10:40** Jeremy Crampton\*, University of Kentucky, *Schrödinger's Robot: Algorithmic Anxiety and Governance*.

**11:00** Vincent J. Del Casino, Ph.D.\*, University of Arizona; Lily House-Peters, PhD, California State University, Long Beach, *The Birth of the (Robotic) Clinic: An Archaeology of (Algorithmic) Medical Perception*.

**11:20** Michael Eric Samers\*, University of Kentucky, *Player piano on steroids? The implications of robotics and artificial intelligence for employment*.

## 2222. People-Centred Food Policy 1: Food Environments and Accessibility (Sponsored by Geographies of Food and Agriculture Specialty Group)

Room: Room 302, Hynes, Third Level (Paper Session)

ORGANIZER(S): Michael Chrobok, University of Toronto; Luke Craven, University of Sydney

CHAIR(S): Michael Chrobok, University of Toronto

**10:00** Luke Craven\*, University of Sydney, *People-centred policy: toward a new ethic of food systems change*.

**10:20** Rebecca Jacobs\*, University of Toronto, *Exploring the Neighbourhood Food Environment: Residents' Perspectives in Scarborough Village, Toronto..*

**10:40** Renata Blumberg, Montclair State University; Pankaj Lal, Montclair State University; Mousumi Bose, Montclair State University; Meena Mahadevan, Montclair State University, *Reconnecting Farmers and Consumers? Possibilities for a People-Centered Special Supplemental Nutrition Program for Women, Infants, and Children in the US*.

**11:00** Christine C. Caruso\*, Eastern Connecticut State University; Justin Sean Myers, PhD, Marist College, *Food Justice and Participatory Budgeting*.

Discussant(s): Michael Chrobok, University of Toronto

## 2223. Memory in political ecology and environmental justice 2: Stories of energy futures and environmental degradation (Sponsored by Cultural and Political Ecology Specialty Group)

Room: Room 303, Hynes, Third Level (Paper Session)

ORGANIZER(S): Gabriela Valdivia, University of North Carolina - Chapel Hill; Tom Perreault, Syracuse University

CHAIR(S): Manuel Prieto, Universidad Catolica del Norte

**10:00** Rosie Day\*, University of Birmingham; Melanie Rohse, University of Birmingham; David Llewellyn, University of South Wales, *Remembered pasts, imagined futures: working with oral histories to engage communities over energy futures in the South Wales coalfields*.

**10:20** Tracy Perkins, Ph.D.\*, Howard University, *Forgotten Victories: Documenting the History of Successful Environmental Justice Struggles*.

Introducer: Gabriela Valdivia

**10:50** Stephanie Friede\*, Duke University, *Atmospheric Pressure: Multiple Ways of Knowing the Wind on Mexico's Isthmus of Tehuantepec*.

**11:10** Tom Perreault\*, Syracuse University, *Meaning, mining and memory in the Andes*.

Discussant(s): Manuel Prieto, Universidad Catolica del Norte

## 2224. Tourism Geographies: Examining the Past and Charting the Future (Sponsored by Recreation, Tourism, and Sport Specialty Group)

Room: Room 304, Hynes, Third Level (Paper Session)

ORGANIZER(S): Patrick Brouder, Brock University

CHAIR(S): John Everett Nyberg, NOAA/Office of Coast Survey

**10:00** Stephen Matchak\*, Salem State University; Stephen Matchak, Ph.D., Salem State University, *The Development of New England Tourism: The Antebellum Period*.

**10:16** Kaelin M. Groom\*, University of Arkansas, *Visualizing Tourism and Landscape Change in Petra, Jordan*.

**10:32** William R Price\*, Central Connecticut State University; Catherine Ronck, Tarleton State University, *Gushing*



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*about Petroleum: Oil and Natural Gas Tourism in Texas.*

**10:48** Emily J Dudek\*, Plymouth State University, *Visiting the founder's house: Tourism at the Joseph Smith Birthplace Memorial.*

**11:04** John Everett Nyberg\*, NOAA/Office of Coast Survey; Shachak Pe'eri, Dr., NOAA/Office of Coast Survey; Matt Rice, Dr., George Mason University, *Cruising to Cuba - Predicting Impacts of Cruise Ship Tourism to New Destinations.*

**11:20** Casey D. Allen\*, University of Colorado Denver, *Forgotten Fortresses of Jordan's Eastern Desert.*

**2225. Geography and Substance Use (Sponsored by Geographic Information Science and Systems Specialty Group, Spatial Analysis and Modeling Specialty Group, Health and Medical Geography Specialty Group)**

*Room:* Room 305, Hynes, Third Level (Paper Session)

ORGANIZER(S): Kathleen Stewart, University of Maryland; Jeremy Mennis, Temple University

CHAIR(S): Kathleen Stewart, University of Maryland

**10:00** Jamie Pearce\*, University of Edinburgh, *Geographies of smoking: examining point of sale legislation and youth smoking in Scotland.*

**10:20** Niamh Shortt, PhD, CRESH, University of Edinburgh; Jamie Pearce, PhD, CRESH, University of Edinburgh; Richard Mitchell, PhD, CRESH, University of Glasgow, *Alcohol outlet density and patterns of consumption: Is everybody affected equally?.*

**10:40** Yanjia Cao\*, University of Maryland; Moying Li, University of Maryland; Kathleen Stewart, University of Maryland, *Spatiotemporal patterns of deaths involving heroin in the US.*

**11:00** Gerald Stahler, Ph.D.\*, Temple University; Jeremy Mennis, Ph.D., Temple University, *Drug Treatment Outcomes For Opioid Users: Does Race/Ethnicity Moderate Regional and Metropolitan Variation in Treatment Completion.*

**2226. Biogeography**

*Room:* Room 306, Hynes, Third Level (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Edith Pounden

**10:00** Jerry A. Griffith, Ph.D.\*, Kutztown University; Laurie Goodrich, Ph.D., Hawk Mountain Sanctuary, *Land Cover and Raptor Presence/Abundance in Pennsylvania.*

**10:20** Saeideh Gharehchahi\*, Texas State University - San Marcos; Saber Brasher, Texas State University; Jennifer Villa, Texas State University; Paepin Goff, Texas State University; David R Butler, Texas State University, *Traumatic Resin Ducts Resulting From Geomorphic Hazards In Western North America.*

**10:40** Danielle Sue Nagle\*, University of Denver, *Patterns of Plant Species Biodiversity on River Islands in the Upper Susquehanna River and Its Tributaries.*

**11:00** Emily A. Buege, Master's Student\*, University of Alabama, *Hydrogeomorphological Factors Influencing Distributions of Cichlid Nesting Sites in a Mesoamerican River System.*

**11:20** Edith Pounden\*, Concordia University; David F. Greene, Humboldt State University, *Predictors of masting in Picea glauca.*

**2227. The Arctic: then and now - Session 1 dedicated to H. Jesse Walker (1921 -2015) (Sponsored by Cryosphere Specialty Group, Polar Geography Specialty Group)**

*Room:* Room 307, Hynes, Third Level (Paper Session)

ORGANIZER(S): Molly McGraw, Southeastern Louisiana University; Jerry Brown; Frederick E. Nelson, Michigan State University

CHAIR(S): Molly McGraw, Southeastern Louisiana University

**10:00** Molly McGraw\*, Southeastern Louisiana University, *Pioneering the Arctic: H. Jesse Walker.*

**10:20** Sharon Tahirkheli\*, American Geosciences Institute, *Improving Access to the Arctic Literature: Migration of the Bibliography of Cold Regions Science and Technology to a New Platform.*

**10:40** Frederick E. Nelson\*, Michigan State University; Marcy Bidney, American Geographical Society Library; Molly McGraw, Southeastern Louisiana University, *Recent Polar Archival Donations to the American Geographical Society Library.*

**11:00** Andrey N. Petrov\*, University of Northern Iowa; Shelby Anderson, Portland State University; Virginia Butler, Portland State University; Michael Etnier, Portland State University; Aaron Presnall, Jefferson Institute; Stacy Rasmus, University of Alaska Fairbanks; Kevin Smith, Brown University; Sveta Yamin-Pasternak, University of Alaska Fairbanks, *Arctic Horizons: Forging Priorities for Arctic Social Sciences and NSF Funding.*

**11:20** Jerry Brown\*, self, *Permafrost Legacies of the Boston Area, Massachusetts.*

**2228. Racism's Toxic Entanglements in the Age of Flint and Ferguson II (Sponsored by Cultural Geography Specialty Group)**

*Room:* Room 308, Hynes, Third Level (Paper Session)

ORGANIZER(S): Lindsey Dillon, University of California - Santa Cruz; Rachel Brahinsky, University of San Francisco

CHAIR(S): Lindsey Dillon, University of California - Santa Cruz

**10:00** Pavithra Vasudevan\*, University of North Carolina, Chapel Hill, *Intimate Ecologies of Race and Waste.*

**10:20** Neil Nunn\*, University of Toronto, *Toxic encounters, settler logics of elimination, and the future of a continent.*

**10:40** Cristina Faiver-Serna, MPH\*, University of Oregon, *Mapping and Reimagining Vulnerability in Toxic Environments.*

**11:00** Lindsey Dillon\*, University of California - Santa Cruz, *The Breathers of Bayview Hill.*

Discussant(s): Rachel Brahinsky, University of San Francisco

**2229. Pyrogeography II: Pedosphere and Hydrosphere**

*Room:* Room 309, Hynes, Third Level (Illustrated Paper Session)

ORGANIZER(S): Jennifer Callanan, William Paterson University; J Jesse Minor, University of Arizona

CHAIR(S): Jennifer Callanan, William Paterson University

**10:00** Gregory A. Pope, Ph.D.\*, Montclair State University; Jason S. Darley, MS candidate, Montclair State University; Jennifer R. Callanan, Ph.D., William Paterson University, *Is there a chemical signature for wildfire-impacted soils?.*

**10:10** Jason Scott Darley\*, Montclair State University; Greg Pope, Montclair State University; Jennifer Callanan, William Paterson University; Matthew Hazen, PA Department of Conservation and Natural Resources, *Watershed-scale forest fire impacts on soil and water chemistry: A case study in Delaware State Forest, Pennsylvania, USA..*

**10:20** Jennifer Callanan\*, William Paterson University; Dennis Grune, William Paterson University; Katherine Espinal, William Paterson University; Mariola Lach, William Paterson University; Gregory Pope, Montclair State University; Matthew Hazen, PA Department of Conservation and Natural Resources; Michael DaSilva, William Paterson University, *Impacts to Surface Soil as a Result of the 16 Mile Fire, Cresco PA, USA.*

**10:30** Adam Fernandez\*, Montclair State University; Michael A Kruege, Montclair State University; Greg A Pope, Montclair State University; Matthew L Gorrington, Montclair State University; Xiaona Li, Montclair

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State University; Sandra Passchier, Montclair State University, *Mineral and bioclimatic factors controlling soil black carbon sequestration potential along an elevational gradient in the White Mountain National Forest of New Hampshire.*

- 10:40** Megan Hente\*, Missouri State University; Robert T Pavlowsky, Missouri State University, *Prescribed burning effects on soil conditions in Mark Twain National Forest, southeast Missouri Ozarks.*
- 10:50** Erana Jae Loveless\*, University of Arizona, *Were Alberta's Southern Rocky Mountain Valleys Burned Historically by Indigenous Groups to Produce Bison Habitat and Other Benefits?*
- 11:00** Katherine Espinal\*, William Paterson University; Jennifer Callanan, William Paterson University; Dennis Grune, William Paterson University; Mariola Lach, William Paterson University; Gregory Pope, Montclair State University; Matt Hazen, Forester, PA Department of Conservation and Natural Resources; Michael DaSilva, William Paterson University, *Assessment of Water Chemistry of Bushkill Creek Following the 16 Mile Fire, Cresco PA, USA.*

## 2230. Practicing Citizenship II: Making Publics (Sponsored by Political Geography Specialty Group)

- Room:** Room 310, Hynes, Third Level (Paper Session)
- ORGANIZER(S): Lynn Staeheli, David Jones Marshall, Durham University
- CHAIR(S): David Jones Marshall, Durham University
- 10:00** Elaine Lynn-Ee Ho\*, National University of Singapore, *Mobilising affinity ties at the China-Myanmar border: Kachin internal displacement and the geographies of humanitarianism.*
- 10:20** Chloe Buire\*, CNRS / Sciences Po Bordeaux, *Multiple Regimes Of Conformity And Dissent In Cape Town: When Young People Craft a Safe Space To Grow Up On Their Own Terms.*
- 10:40** Konstantin Kastrissianakis\*, University of Durham, *"Legit citizenship is not enough": Youth understandings of politics and dissent in Lebanon since the Arab Spring.*
- Discussant(s): Alex Jeffrey, University of Cambridge

## 2231. 2017 AAG Physical Geography Symposium Session 3: The Legacy of Karl Butzer in Physical Geography and Beyond Plenary Addresses: Geomorphology to Geoarchaeology (Sponsored by Paleoenvironmental Change Specialty Group, Geographies of Bread and Water in the 21st Century Featured Theme, Geomorphology Specialty Group)

- Room:** Room 311, Hynes, Third Level (Paper Session)
- ORGANIZER(S): Timothy Beach, University of Texas at Austin; Carlos E. Cordova, Oklahoma State University; Tripti Bhattacharya
- CHAIR(S): Tripti Bhattacharya
- 10:00** Paul Goldberg, PhD\*, Boston University, *Geoarchaeology, Caves, and Site Formation.*
- 10:20** Murray Justin Wilkinson\*, Texas State University - San Marcos, *Karl Butzer and geomorphology in southern Africa? revealing a richer history.*
- 10:40** Paul Adderley, PhD\*, University of Stirling; Mitchell Power, PhD, University of Utah; Valery Terwilliger, PhD, University of Kansas; Zewdu Eshetu, PhD, Ethiopian Institute of Agricultural Research, University of Addis Ababa, Ethiopia; Marilyn Fogel, PhD, University of California, Riverside; Catherine D'Andrea, PhD, Simon Fraser University, British Columbia, Canada, *Towards An Understanding Of The Cultural Land-use Practices Of Pre-Aksumite Settlement At Mezber, Tigray Plateau, Ethiopia..*
- 11:00** Kathleen Nicoll, PhD\*, *Revisiting Karl W. Butzer's "Desert Landforms & Pleistocene Palaeoclimates of the Kukur Oasis Region, Egypt".*
- Introducer: Carlos E. Cordova

## 2232. Need for Public Intellectuals in a Trump America: Strategies for Communication, Engagement, and Advocacy (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme, Late-Breaking News Special Session Track) - Featured Session

- Room:** Room 312, Hynes, Third Level (Panel Session)
- Organizer and Chair: **Derek H. Alderman**, University of Tennessee
- Panelists:

**Derek H. Alderman**, University of Tennessee;  
**Meg Gilley**, COMPASS;  
**Joshua F. Inwood**, Pennsylvania State University;  
**Sriram Khe**, Western Oregon University;  
**William G. Moseley**, Macalester College;  
**Rebecca Maria Torres**, University of Texas at Austin;  
**Joseph S. Wood**, University of Baltimore  
**Willie Jamal Wright**, UNC - Chapel Hill

In the immediate wake of the election of President Donald Trump, it has become especially apparent that the country will likely face great challenges in defending civil rights and liberties, advocating for the support of science and academic freedom, and enacting an inclusive worldview outside of nationalistic and market imperatives. The need for public intellectualism in Geography, while long important and under-developed, will grow significantly as we address and even challenge policies that threaten some of the core values of the discipline. The American Association of Geographers has already begun to respond to major issues and controversies facing the geographical community in Trump America, but no one organization has the capacity to respond meaningfully and completely to every challenge we will likely encounter. It will be necessary to complement actions taken by the AAG with geographers, working individually and collectively, within their own communities, universities, and workplaces to effect change. Yet, many of us were not trained to move outside the Academy or wider industry circles to engage with the public, policy communities, and the media. And in some instances, our employers have discouraged such practices.

This panel brings together voices who can speak to the urgent need for more public intellectuals in Geography while also sharing their own experiences, strategies, and practical advice in the areas of public communication, engagement, and advocacy. Panelists will address a number of tools at the disposal of public intellectuals: the writing of op-eds and columns/blogs, conducting interviews with the media and the strategic use of social media, organizing of teach-ins and public forums on issues, serving on public commissions and inquiries, informing and holding elected officials accountable, working with community groups and organizations, and carrying out other forms of scholar-activism and public engagement.

## 2233. Climate Specialty Group Student Paper Competition - Session II (Sponsored by Climate Specialty Group)

- Room:** Room 313, Hynes, Third Level (Paper Session)
- ORGANIZER(S): Trent Ford, Southern Illinois University
- CHAIR(S): Trent Ford, Southern Illinois University
- 10:00** Michael L. Marston\*, Virginia Tech; Andrew W. Ellis, PhD, Virginia Tech, *Examining Changes to the Temporal Distribution of Seasonal-to-Annual Precipitation across the Mid-Atlantic Region, 1981-2016.*
- 10:20** Paul W. Miller, M.S.\*, University of Georgia; Thomas L. Mote, PhD, University of Georgia, *A climatology of weakly forced and pulse thunderstorms in the Southeast United States.*
- 10:40** Deirdre Smith\*, Louisiana State University; Jill Trepanier, PhD, Louisiana State University; Angel Munoz, Princeton University, *Lightning Flash Rate in the Lake Maracaibo Basin, Venezuela Related to Sea Surface Temperatures and Tropospheric Air Flow.*
- 11:00** Jordan V. Pino\*, The Ohio State University; Steven M. Quiring, The Ohio State University; Seth D. Guikema, University of Michigan; Timothy G. Williams,



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University of Michigan, *Improved Electric Outage Forecasting for Response to Tropical Cyclone Events*.

- 11:20** Stephen Shield\*, The Ohio State University; Brent McRoberts, Texas A&M University; Steven Quiring, The Ohio State University, *Statistical Modeling of Thunderstorm Related Power Outages*.

**2238. Theorizing Citizenship in Higher Education: Students as Agents for Change? II: Educational Mobilities and Alternative Citizenships (Sponsored by Cultural Geography Specialty Group)**

**Room:** *Independence East, Sheraton, Second Floor (Paper Session)*

ORGANIZER(S): Yi En Cheng, Yale-NUS College; Mark Holton, Plymouth University

CHAIR(S): Yi En Cheng, Yale-NUS College

- 10:00** Arianne Schulz\*, University of California - Riverside, *The Making of EU Cultural Citizens?: the Erasmus+ Program in Germany*.

- 10:20** Christopher Webb, University of Toronto, *Asinamali: Family, Debt and Student Struggles in Post Apartheid South Africa*.

- 10:40** Janak N. Padhiar\*, University of Oxford, *I want to become a 'regular' student: Navigating unexpected futures, identities and pathways to educating India's refugee youth*.

- 11:00** Neha Vora\*, Lafayette College, *Pedagogies of essentialism: multiculturalism, Qatariness, and student segregation in Education City's American branch campuses*.

- 11:20** Sertanya Reddy\*, *Going Global: Underrepresented Youth and Global Educational Mobility*.

**2239. Uncertainty and Context in Geography and GIScience Theme - Opening Plenary (Sponsored by Uncertainty and Context in Geography and GIScience Featured Theme) - Featured Session**

**Room:** *Independence West, Sheraton, Second Floor (Panel Session)*

Organizer: Organizers: **Mei-Po Kwan**, University of Illinois at Urbana-Champaign; **Daniel Griffith**, University of Texas at Dallas; **Tim Schwanen**, University of Oxford; **Michael Goodchild**, University of California, Santa Barbara

Chair: **Tim Schwanen**, University of Oxford

Speakers:

**Mei-Po Kwan**, University of Illinois at Urbana-Champaign; **Michael F. Goodchild**, University of California

Discussant: **David Berrigan**, U.S. National Institutes of Health - National Cancer Institute

**2240. Opportunities and Challenges in Climate Adaptation (Sponsored by Human Dimensions of Global Change Specialty Group, Climate Specialty Group)**

**Room:** *Liberty B, Sheraton, Second Floor (Panel Session)*

ORGANIZER(S): Paul Moss, Minnesota Pollution Control Agency

CHAIR(S): Paul Moss, Minnesota Pollution Control Agency

Panelists: Daniel Bednar, Western University; Kirstin Dow, University of South Carolina; Sara Meerow, University of Michigan; Carrie Mitchell, University of Waterloo; Paul Moss, Minnesota Pollution Control Agency; William D. Solecki, Hunter College - CUNY

**2241. Location Intelligence: Business Geography Research and Applications (Sponsored by AAG Careers and Professional Development Theme, Business Geography Specialty Group)**

**Room:** *Liberty C, Sheraton, Second Floor (Paper Session)*

ORGANIZER(S): Murray Rice, University of North Texas; Tony Hernandez, Ryerson Polytechnic University

CHAIR(S): Murray Rice, University of North Texas

- 10:00** Joe Tokosh\*, Kent State University, *Creating a Shopping Mall Typology for the city of Pittsburgh, Pa.*

- 10:20** Christopher Daniel\*, CSCA - Ryerson University;

Tony Hernandez, PhD, CSCA - Ryerson University, *Exploring a Typology of Mixed-Use Retail Geography*.

- 10:40** Joshua Paul Bova\*, University of North Texas, *Effects of National Retail Firm Establishments on the Geography of Small Retail Business at the Local Scale: A Case Study in Denton, Texas*.

- 11:00** Joseph Aversa\*, Ryerson University; Tony Hernandez, PhD, Ryerson University, *From gut-feel to spatial big data: exploring the boundaries of retail location decision-making*.

- 11:20** Tony Hernandez\*, Ryerson University; Maurice Yeates, Ryerson University; Christopher Daniel, Ryerson University, *The Corporatization of Small Scale Retail in Canada*.

**2242. Economic Geography VII - Technological Diffusion and the Economic Geography of New Production Spaces (Sponsored by Economic Geography Specialty Group)**

**Room:** *Back Bay Ballroom A, Sheraton, Second Floor (Paper Session)*

ORGANIZER(S): Dieter Franz Kogler, University College Dublin; Pierre-Alexandre Balland, Utrecht University; Jennifer Clark, Georgia Institute of Technology

CHAIR(S): Dieter Franz Kogler, University College Dublin

- 10:00** Laura Wolf-Powers\*, Center for Urban Research, City University of New York; Marc Doussard, University of Illinois Urbana-Champaign; Greg Schrock, Portland State University, *Makers and the New Manufacturing Policy*.

- 10:20** Marc Doussard\*, University of Illinois at Urbana-Champaign; Laura Wolf-Powers, PhD, CUNY Graduate Center; Greg Schrock, PhD, Portland State University; Max Eisenburger, University of Illinois at Urbana-Champaign, *The Maker's World of Production: Scaling up from Tinkering to Manufacturing in Three U.S. Cities*.

- 10:40** Mariachiara Barzotto\*, University of Birmingham, *Occupational Mix for Sustainable and Inclusive Regions*.

- 11:00** Lisa De Propriis, Prof\*, University of Birmingham UK, *Technological Change and a New Smart Manufacturing Model*.

- 11:20** Jennifer Clark\*, Georgia Institute of Technology, *Smart Cities: Remaking Markets and Manufacturing Open Innovation Spaces*.

**2244. Whither the Growth Machine II: New Actors and Changing Growth Machine Politics**

**Room:** *Constitution A, Sheraton, Second Floor (Paper Session)*

ORGANIZER(S): John Stehlin, University of California, Berkeley; Alexander Tarr, Worcester State University

CHAIR(S): Alexander Tarr, Worcester State University

Introducer: Alexander Tarr

- 10:05** Annalena Di Giovanni\*, University of Cambridge, *Crazing Istanbul: Urban Renewal in Post-Crisis Turkey*.

- 10:25** Michael Indergaard, PhD Sociology\*, St. John's University; Sharon Zukin, PhD Sociology, Brooklyn College and CUNY Graduate Center, *Growth Machine 2.0? The Brooklyn Tech Triangle as an Imagined Landscape of Innovation*.

- 10:45** Sangwon Chae\*, Seoul National University; HaeRan Shin, Dr, Seoul National University, *Growth regime in a second-tier city: Urban informality as an encounter among spatial strategies of the urban growth regime in Kimpo, South Korea*.

- 11:05** Samuel Stein\*, CUNY Graduate Center, *Unions and New Build Gentrification in New York City*.

Discussant(s): Harvey Molotch, NYU

**2245. Gender, Sexuality and the Media: Media and Communication Geography Session I (Sponsored by Communication Geography Specialty Group)**

**Room:** *Constitution B, Sheraton, Second Floor (Paper Session)*

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ORGANIZER(S): Emily Fekete, Oklahoma State University  
CHAIR(S): Julie A. Podmore, John Abbott College

**10:00** Alison Bain, York University; Julie Podmore, Concordia University/John Abbott College; Rae Rosenberg, York University, *Myopic Homophobia: Print Media (Mis)representations of LGBTQ2S Suburban Lives in Canada's largest cities*.

**10:20** Ashley Swamy\*, University of Oklahoma, *Controversy Over Women's Choices: Analyzing One Short Film From Three Audience Perspectives*.

**10:40** Elena dell'Agnese\*, Università di Milano-Bicocca, *"You know nothing Jon Snow": troubled masculinities, gender issues and aesthetic stereotypes in the HBO series Game of Thrones*.

**11:00** Rafael R. Diaz-Torres\*, University of Puerto Rico at Humacao, *Gender geography: A tool for understanding Olympic sports*.

## 2248. Conservation, Tourism, and Livelihoods 2: Challenges for Parks and Protected areas (Sponsored by Cultural and Political Ecology Specialty Group)

Room: Beacon D, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Priyanka Ghosh

CHAIR(S): Priyanka Ghosh

**10:00** Melva B. Treviño Peña, M.S.\*, Oregon State University, *Competing for the same space: subsistence gatherers, shrimp farmers and conservation in the Ecuadorean mangroves*.

**10:20** Robert Connell\*, University of California - Berkeley, *Tourism and the Legacy of Slavery and its Resistance: Jamaican Maroons and the Fight for Memory*.

**10:40** Ian Florin\*, University of Geneva, *Conserving nature under neoliberalism in Europe: The Greenbelt of Fennoscandia project*.

**11:00** Yao Sun\*, Harbin Institute of Technology; Hang Ma, Harbin Institute of Technology; Edwin Hon-wan Chan, Hong Kong Polytechnic University, *Integrated Renewal Strategies of Rural Tourism Settlements Located in Natural Scenic Spots: An Example from Nan'ao, China*.

**11:20** Kyle David Wagner\*, York University, *Conservation in Focus: Capturing the Payments for Ecosystem Services (PES) scheme through ecotourism and camera-traps in the Lao PDR*.

## 2249. Destabilizing race and nature: critical perspectives (Sponsored by Cultural and Political Ecology Specialty Group, Geographic Perspectives on Women Specialty Group, Cultural Geography Specialty Group)

Room: Beacon E, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Travis Bost, University of Toronto; Laura Vaz-Jones, University of Toronto

CHAIR(S): Travis Bost, University of Toronto

**10:00** Janae Davis\*, Clark University, *"We are what you would call 'outdoors people'": Reconsidering why African Americans don't visit national parks*.

**10:18** Kelsey Brain\*, Pennsylvania State University, *Exotic natures/bodies: The black Afro-Costa Rican in Puerto Viejo*.

**10:36** Andrea Marston\*, University of California-Berkeley, *Geology of Consciousness: Tin and the Unmodernization of Mining in Bolivia*.

**10:54** Robin McDowell\*, Harvard University, *Biography of a Levee: The Life and Times of the Bonnet Carré Crevasse*.

**11:12** Diana Michelle Negrin\*, Center for the Investigation and Study in Social Anthropology; Diana Michelle Negrin, PhD, Center for the Investigation and Study in Social Anthropology, *It is Loved and It is Defended: Unsettling Social and Environmental Activism Across Race and Space*.

Discussant(s): Sharlene L. Mollett, University of Toronto

## 2250. Health, Poverty, and Place in Ghana I (Sponsored by Population Specialty Group, Africa Specialty Group, Health and Medical Geography Specialty Group)

Room: Beacon F, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Justin Stoler, University of Miami; John R.

Weeks, San Diego State University

CHAIR(S): Justin Stoler, University of Miami

**10:00** Douglas A. Stow\*, San Diego State University; Lloyd Pete Coulter, San Diego State University; John R. Weeks, San Diego State University; Yu-Hsin Tsai, San Diego State University; Foster Mensah, University of Ghana, Legon, *Changes in agricultural land use in southern Ghana in the first decade of the new millennium*.

**10:20** Ryan Engstrom\*, George Washington University; Andrew Copenhagen, George Washington University; Avery Sandborn, USDA, National Agricultural Statistics Service, *Examining the Relationship Between Census Data and Spatial Features Derived from High Spatial Resolution Imagery in Accra, Ghana Over Time*.

**10:40** Roger Antabe\*, University of Western Ontario; Kilian Nasung Atuoye, University of Western Ontario; Vincent Zubedaar Kuure, Department of Geography and Planning, Queens University, Canada; Godwin Arku, University of Western Ontario; Isaac Luginaah, University of Western Ontario, *Community health effects of surface mining in the Upper West Region of Ghana: The roles of mining odours and dust*.

**11:00** Martin Oteng-Ababio, Prof\*, University of Ghana, *Providing infrastructure services in urban Ghana: Does a bottom-up approach work in all cases?*.

**11:20** Justin Stoler\*, University of Miami, *Is Drinking Water Access "In the Bag"? The Diffusion of Sachet Water in Ghana, 2010-2014*.

## 2253. Managing the Periphery and Marginalizing the Center (Sponsored by Eurasian Specialty Group, Political Geography Specialty Group, Asian Geography Specialty Group)

Room: Dalton A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Jeremy Tasch, Towson University

CHAIR(S): Jeremy Tasch, Towson University

**10:00** Meagan Todd\*, University of Colorado, *Morality Politics of Mosque Construction in Russia: The Re-opening of Moscow's Cathedral Mosque*.

**10:20** Ágnes Eross\*, Geographical Institute RCAES Hungarian Academy of Sciences; Patrik Tátrai, Geographical Institute RCAES Hungarian Academy of Sciences; Katalin Kovály, Geographical Institute RCAES Hungarian Academy of Sciences, *Effects of Ukraine crisis in Transcarpathia: snapshots from the periphery*.

**10:40** Jarmo Kortelainen\*, University of Eastern Finland; Pertti Rannikko, University of Eastern Finland, *Place and mobility in Russian forest peripheries*.

**11:00** Gerard Toal\*, Virginia Tech, *"Occupied Territories": A Geopolitical Frame in Post-Soviet Space*.

Discussant(s): Jeremy Tasch, Towson University

## 2255. Food sharing: contemporary cultures, practices and economies II (Sponsored by Geographies of Food and Agriculture Specialty Group, Economic Geography Specialty Group)

Room: Hampton A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Oona Morrow, Trinity College Dublin; Anna Davies, Trinity College Dublin

CHAIR(S): Anna Davies, Trinity College Dublin

**10:00** Oona Morrow, PhD\*, Trinity College Dublin, *Towards a Community Food Sharing Economy: Notes from Berlin*.

**10:20** Penn Loh\*, Tufts University; Julian Agyeman\*, Tufts University, *The emerging Boston Food Solidarity Economy*.

**10:40** Melissa Kennedy\*, Melissa Kennedy\*, *The Sharing Economy of Slow Food*.

**11:00** Melissa Ladenheim, PhD\*, University of Maine Honors

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College; Mark Haggerty, PhD, University of Maine Honors College; Sarah Mullis, University of Maine Honors College, *Community Gardens and Food Sharing: Insights into Senior Food Insecurity.*

- 11:20** Kristin Reynolds, Ph.D.\*, Food.Scholarship.Justice; Claudia Urdanivia, M.A., Food.Scholarship.Justice; Michael Harrington, M.S. Candidate, The New School/ Food.Scholarship.Justice, *Participatory Evaluation As Food and Environmental Justice Praxis: Experiences from New York City and State.*

**2256. Synoptic Climatology 2 (Sponsored by Climate Specialty Group)**

- Room:** Hampton B, Sheraton, Third Floor (Paper Session)  
ORGANIZER(S): Cameron C. Lee, Kent State University; Thomas Ballinger, Texas State University  
CHAIR(S): Cameron C. Lee, Kent State University  
**10:00** Thomas J. Ballinger\*, Texas State University; Edward Hanna, University of Lincoln; Richard J. Hall, University of Sheffield; Jeffrey Miller, NASA and Wyle, Inc.; Mads H. Ribergaard, Danish Meteorological Institute; Jacob L. Hoyer, Danish Meteorological Institute, *Synoptic circulation links between Greenland autumn air temperatures and adjacent sea ice conditions.*  
**10:20** Zachary Suriano\*, University of Delaware; Daniel J Leathers, University of Delaware, *Synoptic Climatology of Lake Effect Snowfall Changes in the Eastern Great Lakes Region.*  
**10:40** Julie M Sanchez\*, The Pennsylvania State University, *Mid-Latitude Climate Change: The impacts of Arctic Amplification on the jet stream, atmospheric blocking, and teleconnections.*  
**11:00** Justin J Hartnett\*, Syracuse University, *The Contribution of Upper-Level Flow Regimes to Seasonal Snowfall Totals in Upstate New York.*  
**11:20** Daniel J. Vecellio\*, Climate Science Lab, Department of Geography, Texas A&M University; Christopher J. Nowotarski, Department of Atmospheric Sciences, Texas A&M University; Oliver W. Frauenfeld, Climate Science Lab, Department of Geography, Texas A&M University, *Response of the Atmospheric Boundary Layer and Synoptic-Scale Circulation to Varying Permafrost Conditions in Eurasia Using WRF.*

**2257. Neoliberal Urbanism in the Post-Uprising Middle Eastern City**

- Room:** Gardner A, Sheraton, Third Floor (Paper Session)  
ORGANIZER(S): Eliana Abu-Hamdi, University of California - Berkeley  
CHAIR(S): Jillian Schwedler, Hunter College - City University  
**10:00** Siobhán McPhee, PhD\*, University of British Columbia, *A sustainable labour market - tales from Abu Dhabi.*  
**10:20** Ahmed Kanna, University of the Pacific, *Everydayness and the Production of Postcolonial Space in Dubai.*  
**10:40** Sarah El-Kazaz\*, Oberlin College, *Building "Community" and Markets in Neoliberal Cairo and Istanbul.*  
**11:00** Hiba Bou Akar\*, Columbia University, *FOR THE WAR YET TO COME.*  
**11:20** Farah Al-Nakib\*, American University of Kuwait, *Determining the Urban Commons: New Struggles for Public Space in Post-2011 Kuwait.*

**2258. Reconstructing Urban Natures Session 2:Blue/Green/Brown Urbanizations -Urban Political Ecologies of Water and Sanitation**

- Room:** Gardner B, Sheraton, Third Floor (Paper Session)  
ORGANIZER(S): Damian Finbar White, RISD  
**10:00** Angela Oberg\*, Rutgers University, *Greening shit: the political ecology of decentralized sewage systems.*  
**10:20** Lucilla Barchetta\*, Gran Sasso Science Institute, *Situated urban natures: a history of river ecologies.*

**10:40** Heloisa S M Costa, Dr\*, UFMG, *Nature, culture and territorial restructuring: contributions from a planning experience.*

**11:00** Mark Usher\*, University of Manchester, *Reservoirs of citizenship: Waterfront design, libidinal governance and the affective turn in urban planning.*

**11:20** Noura Wahby\*, University of Cambridge, *Redefining Cairene Urban Natures- Water and its Contradictions.*

**2259. The Urban Politics of Policy Failure II: Unintended Outcomes (Sponsored by Political Geography Specialty Group, Urban Geography Specialty Group)**

- Room:** Fairfax A, Sheraton, Third Floor (Paper Session)  
ORGANIZER(S): John Lauermann, Texas A&M University; Cristina Temenos, University of Manchester - Manchester  
CHAIR(S): Cristina Temenos, University of Manchester - Manchester  
**10:00** Yinnon Geva\*, Hebrew University of Jerusalem; Gillad Rosen, Dr., Hebrew University of Jerusalem, *Those Who Made It: Developers' Experience in a Faltering Urban Regeneration Policy.*  
**10:20** Sven Daniel Wolfe\*, University of Zurich, *Policy Multiplicities in the 2018 Football World Cup in Russia: Urban Development in Two Host Cities.*  
**10:40** Aida Nciri, PhD Candidate\*, Department of Geography, University of Calgary - Laboratoire Techniques Territoires et Sociétés (LATS), Université Paris-Es, *The failure of a success: innovative district heating in Alberta, Canada, and the politics of policy immobility.*  
**11:00** Sofia Shwayri\*, *Prophet before people: The impact of increasingly urgent environmental and economic requirements on planning the ever-evolving Utopian ecocity.*  
Discussant(s): Susan Moore, University College London

**2260. Interdisciplinary Opportunities at the National Science Foundation (NSF) (Sponsored by AAG Careers and Professional Development Theme)**

- Room:** Fairfax B, Sheraton, Third Floor (Panel Session)  
ORGANIZER(S): Antoinette WinklerPrins, National Science Foundation  
CHAIR(S): Daniel Z. Sui, The Ohio State University  
Introducer: Daniel Z. Sui  
Discussant(s): Thomas J. Baerwald, National Science Foundation  
Panelists: Holly M. Hapke, National Science Foundation; Cheryl Eavey, National Science Foundation; Sunil Narumalani, National Science Foundation; George P. Malanson, University of Iowa; Maryann Feldman

**2261. Authors meet Critics: Latest works in Critical Studies of Conservation**

- Room:** Jefferson, Sheraton, Third Floor (Panel Session)  
ORGANIZER(S): Dan Brockington, University of Manchester; Catherine Corson, Mount Holyoke College; Benjamin Gardner, University of Washington - Bothell  
CHAIR(S): Dan Brockington, University of Manchester  
Introducer: Dan Brockington  
Discussant(s): Mara Jill Goldman, University of Colorado; Elizabeth Lunstrum, Department of Geography  
Panelists: James Igoe, Dartmouth College; Benjamin Gardner, University of Washington - Bothell; Catherine Corson, Mount Holyoke College

**2262. Transforming Human-Environment Interactions Research through Integrative Methods 2 (Sponsored by Cultural and Political Ecology Specialty Group, Human Dimensions of Global Change Specialty Group, Water Resources Specialty Group)**

- Room:** Kent, Sheraton, Third Floor (Paper Session)  
ORGANIZER(S): Jennifer Glaubius, University of Kansas; Jean Eichhorst, University of Kansas



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CHAIR(S): Jennifer Glaubius, University of Kansas

**10:00** Debra M. Butler\*, UMass Boston, National Academies of Sciences; Jeanne C Allen, EPA Gulf of Mexico Program, *Community resilience capacity: Mapping socio-ecological and spatial uncertainties.*

**10:20** Dean Hardy\*, SESYNC, University of Maryland; Nik Heynen, University of Georgia, *Flood-Risk Transformations: Territories of Race and Vulnerability on a Barrier Island.*

**10:40** Hui Wang\*, University of Connecticut; Scott R. Stephenson, University of Connecticut, *Discrepancy analysis in quantifying the impacts of climate change and human activities on water resources.*

**11:00** Jean Eichhorst\*, University of Kansas, *Stream Flow as an Indicator of Water Management Decision-Making: a Socio-Hydrological Approach.*

**11:20** Carina Zang\*, University of Heidelberg, *Water quality at the nexus of physical parameters, social conflicts and land use regimes in northern Chile.*

## **2263. Justice and equity in the transformation of urban systems 2**

Room: Commonwealth, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Tor Oiamo, University of Windsor; Sara Edge, Ryerson University

CHAIR(S): Sara Edge, Ryerson University

**10:00** Erica Phipps\*, Queen's University; Jeff Masuda, PhD, Queen's University, *The right to (healthy) housing: Advancing an intersectoral approach to addressing sociospatial inequalities in Ontario, Canada.*

**10:20** Miriam Solis\*, UC Berkeley, *Democratizing Contracts: Communities, Corporations, & Commitments.*

**10:40** Tor Oiamo, PhD\*, Ryerson University, *Environmental noise and justice in Toronto, Canada: in search of equitable mitigation strategies.*

Discussant(s): Sara Edge, Ryerson University

## **2264. William Bunge (1928-2013) and Geography: II (Sponsored by History of Geography Specialty Group)**

Room: Boylston, Marriott, First Floor (Panel Session)

ORGANIZER(S): Luke R. Bergmann, University of Washington; Clark Akatiff

CHAIR(S): Luke R. Bergmann, University of Washington

Discussant(s): Trevor J. Barnes, University Of British Columbia  
Panelists: NURIA BENACH, Universitat de Barcelona; Kevin R. Cox, Ohio State University; Donald Janelle, University of California, Santa Barbara; Michael Woldenberg, State University Of New York at Buffalo

## **2265. Time Series Analysis of Satellite Images (II) (Sponsored by Remote Sensing Specialty Group, Landscape Specialty Group, Spatial Analysis and Modeling Specialty Group)**

Room: Tremont, Marriott, First Floor (Paper Session)

ORGANIZER(S): Qihao Weng, Indiana State University; Peng Fu, Indiana State University

CHAIR(S): Peng Fu, Indiana State University

**10:00** Qihao Weng\*, Indiana State University, *Mapping monthly impervious surface dynamics by fusing Landsat and MODIS time series in the Pearl River Delta, China, from 2000 to 2015.*

**10:20** Ronan Lucey\*, Oak Ridge National Laboratory; Nagendra Singh, Oak Ridge National Laboratory, *Assessing Time-Weighted Dynamic Time Warping as a Method for Analyzing Time-Series Satellite Imagery for Detecting Land Cover Change.*

**10:40** Jonathan Chipman\*, Dartmouth College; Xun Shi, Dartmouth College, *Characterizing landscape dynamics using satellite image time series in the Tarim Basin, Xinjiang.*

**11:00** Chunyuan Diao\*, University at Buffalo; Le Wang, University at Buffalo, *Monitoring the inter-annual leaf senescence of exotic saltcedar using Landsat time series.*

**11:20** Xavier Haro-Carrión\*, University of Florida; Peter Waylen, University of Florida; Jane Southworth, University of Florida, *Spatio-temporal changes in vegetation greenness across continental Ecuador from 1982 to 2010.*

## **2266. Making Place: Anxiety, Fear, Hate**

Room: Columbus 1, Marriott, First Floor (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Mark McCarthy, Galway-Mayo Institute of Technology

**10:00** John J. Swab\*, Pennsylvania State University, *Building Community in the Countryside: The Development of Suburban Governance, 1893-1910.*

**10:20** Philip Boland\*, Queen's University Belfast; Stephen McKay, Dr. Queen's University Belfast, *"It's Neoliberalism, Stupid? Not Bullshit": Place Competition And Culturephilia.*

**10:40** Kyungmin Kim, Dr., Seoul National University; Jieun Lee\*, Seoul National University; Sanguk Lee, Seoul National University, *Déjà vu - the 1920's Seoul resembles the late 1940's Levittown.*

**11:00** Patrick McHaffie\*, Depaul University, *Cities, Nuclear Weapons, and Fear.*

**11:20** Mark McCarthy, BA, PhD, FRGS, FRHistS\*, Galway-Mayo Institute of Technology, *Mapping the Historical Geographies and Heritages of Ireland's 1916 Rising: A County Galway Perspective.*

## **2267. Geography Education II**

Room: Columbus 2, Marriott, First Floor (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Jason Alan Tullis, University of Arkansas

**10:00** Sarah Schwartz, PhD\*, Lamar University, *Using short-term study abroad programs as a geography recruitment tactic.*

**10:20** Nathan Strout\*, University of Redlands, *Service Learning & GIS - a Win-Win!*

**10:40** Emily A. Fogarty\*, Farmingdale State College, *Mapping and Analyzing select New York State Counties for Potential High School Partners in Support of the Proposed Advanced Placement Geographic Information Science and Technology (GIS&T) Course.*

**11:00** Jason A. Tullis, Ph.D.\*, University of Arkansas, *Practical Interchange of Geoprocessing, Workflows and Provenance for Enterprise GIS.*

## **2268. The Futures of Atlases- Panel Discussion (Sponsored by Cartography Specialty Group)**

Room: St. Botolph, Marriott, Second Floor (Panel Session)

ORGANIZER(S): Francis Harvey, Leibniz-Institute for Regional Geography; Benjamin D. Hennig, University of Iceland/University of Oxford

CHAIR(S): Francis Harvey, Leibniz-Institute for Regional Geography

Introducer: Francis Harvey

Panelists: Jongnam Choi, Western Illinois University; Benjamin D. Hennig, University of Iceland/University of Oxford; James Cheshire, University College London; Alicia Cowart, University of California, Berkeley; Aileen R. Buckley, Esri

## **2269. City Economic Evolutions: Coping with Structural Change (Sponsored by Economic Geography Specialty Group)**

Room: Regis, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Emil Evenhuis, University of Cambridge; Andy Pike, Newcastle University

CHAIR(S): Peter Tyler, University of Cambridge

Introducer: PETER SUNLEY

**10:18** Emil Evenhuis\*, University of Cambridge; Peter Tyler, University of Cambridge, *Structural Change and the Economic Evolution of Cities in the UK.*

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**10:36** Rahel Meili\*, University of Berne, Geographisches Institut, Switzerland; Heike Mayer, University of Bern, Geographisches Institut, Switzerland, *Small and medium-sized towns in Switzerland: Which factors lead to different economic characteristics of towns?*

**10:54** Andy Pike\*, Newcastle University; David Bailey, Aston University; Emil Evenhuis, University of Cambridge; Peter Sunley, University of Southampton, *Discerning the roles of policies and institutions in city economic evolution and adaptability: evidence from 5 UK cities.*

**11:12** Jeffrey Carey\*, Queen's University, *Regional Resilience or Sectoral Decline? Disruptive Technological Change and Regional Restructuring in the Southern Ontario Automotive Parts Industry.*

Discussant(s): PETER SUNLEY, Southampton University

**2270. Contested Mexico City: Reconsidering Politics in El Monstruo (Sponsored by Political Geography Specialty Group, Latin America Specialty Group, Urban Geography Specialty Group)**

*Room:* Northeastern, Marriott, Third Floor (Panel Session)

ORGANIZER(S): Ben Alan Gerlofs, Rutgers University

CHAIR(S): Ben Alan Gerlofs, Rutgers University

Discussant(s): Diane Davis, Harvard University

Panelists: Jill Wagle, Carleton University; Nicholas Jon Crane, University of Wyoming; Ben Alan Gerlofs, Rutgers University; Oscar Sosa Lopez, UC Berkeley; Monika Streule, ETH Zurich

**2271. Practical pragmatism: Towards a 'post-critical' urban political geography? (Sponsored by Political Geography Specialty Group, Urban Geography Specialty Group)**

*Room:* Brandeis, Marriott, Third Floor (Panel Session)

ORGANIZER(S): Laura Cesafsky, Ryan Holifield, University of Wisconsin - Milwaukee

CHAIR(S): Ryan Holifield, University of Wisconsin - Milwaukee

Panelists: Bruce Braun, University of Minnesota - Minneapolis; Jennifer McCurry, Queen Mary University of London; Laura Cesafsky; Meg Holden, Simon Fraser University; Marie-Noëlle Carré

**2272. The Just City: An exploration of emerging research on achieving justice in the city, with Professor Susan Fainstein (Sponsored by Urban Geography Specialty Group)**

*Room:* MIT, Marriott, Third Floor (Panel Session)

ORGANIZER(S): Rachael Baker, York University

CHAIR(S): Rachael Baker, York University

Introducer: Rachael Baker

Discussant(s): Susan Fainstein, Harvard University

Panelists: Nufar Avni, McGill University; Anais De Keijser, Technical University Darmstadt; Carla Kayanan, University of Michigan; Rafael Henrique Moraes Pereira, University of Oxford

**2273. Conservation Extraction Conundrum II (Sponsored by Rural Geography Specialty Group, Energy and Environment Specialty Group)**

*Room:* Boston University, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Timothy B. Norris, University of Miami;

Francis Masse, York University; Devin Holterman, York University

CHAIR(S): Francis Masse, York University

Introducer: Francis Masse

**10:05** Timothy B. Norris\*, University of Miami, *Peru, Property and Persuasion: the evolution of legal frameworks for conservation and extraction in Peru.*

**10:25** Forrest DeGroff\*, CCSF, *Is A Simple, Yet Comprehensive and Consistent Climate Change Metric For Carbon Possible?*

**10:45** Kathleen McAfee\*, San Francisco State University, *Big Conservation and Big Pollution: Allies in the Push for REDD+ Offsets in California's Climate Policy.*

Discussant(s): Robert Fletcher, Wageningen University

**2274. Geospatial Health Research Symposium: Infectious Diseases I (Sponsored by Hazards, Risks, and Disasters Specialty Group, Spatial Analysis and Modeling Specialty Group, Health and Medical Geography Specialty Group)**

*Room:* Simmons, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Eric M. Delmelle, University of North Carolina at Charlotte; Mei-Po Kwan, University of Illinois at Urbana-Champaign; Michael J. Widener, University of Toronto

CHAIR(S): Eric M. Delmelle, University of North Carolina at Charlotte

**10:00** Sara Peterson\*, SUNY - Buffalo, *Modeling the Spatial Dynamics of Ebola Transmission.*

**10:20** Yi-Chen Wang\*, National University of Singapore; Xueyuan Ong, National University of Singapore; Paiboon Sithithaworn, Khon Kaen University; David Taylor, National University of Singapore; Timothy Liew, National University of Singapore, *Liver Fluke Infections in Northeast Thailand: Interactions between Physical and Social Environments.*

**10:40** Eric Delmelle, University of North Carolina at Charlotte and Center for Applied Geographic Information Science (CaGIS); Irene Casas\*, Louisiana Tech University; Michael Desjardins, University of North Carolina at Charlotte and Center for Applied Geographic Information Science (CaGIS); Ari Whiteman, University of North Carolina at Charlotte and Center for Applied Geographic Information Science (CaGIS), *Zika in Colombia: space-time signatures of an epidemic on the move.*

**11:00** Stephanie Jane Mundis\*, New Mexico State University; Michaela Buenemann, Dr., New Mexico State University; Nathan A. Lopez-Brody, New Mexico State University; Kathryn A Hanley, Dr., New Mexico State University, *Spatial distribution of mosquitoes that vector Zika, dengue, and West Nile Virus in New Mexico.*

**11:20** Yi-Wen Wang, graduate\*, National Taiwan Normal University; Kuo-Chen Chang, professor, National Taiwan Normal University, *Dengue Fever Distribution and Diffusion factor Analysis - The case of Tainan, Taiwan in 2015.*

**2275. Geospatial Health Research Symposium: Children and Adolescents Health II (Sponsored by Urban Geography Specialty Group, Spatial Analysis and Modeling Specialty Group, Health and Medical Geography Specialty Group)**

*Room:* Suffolk, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Eric M. Delmelle, University of North Carolina at Charlotte; Michael J. Widener, University of Toronto; Mei-Po Kwan, University of Illinois at Urbana-Champaign

CHAIR(S): Kathryn Kulbicki, Westat

**10:00** Jason Gilliland, PhD\*, University Of Western Ontario; Leanne McIntosh, MA, University of Western Ontario; Andrew F Clark, PhD, University of Western Ontario, *Assessing the Impacts of Individual-Level and Environmental Exposures on Children's Sleep.*

**10:20** William F. Wiecezorek\*, SUNY Buffalo State, *Assessing Places in Adolescent Activity Space.*

**10:40** Yongmei Lu\*, Texas State University, *Are our kids as (un) healthy as adults? - An examination of BMI at zip code level.*

Discussant(s): Kathryn Kulbicki, Westat; Alan M. Delmerico, Institute for Community Health Promotion

**2276. Symposium on Human Dynamics in Smart and Connected Communities: Smart Cities and Urban Computing 6 (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group,**



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- Room:** **Spatial Analysis and Modeling Specialty Group)**  
*Wellesley, Marriott, Third Floor* (Paper Session)  
 ORGANIZER(S): Xinyue Ye, Kent State University; Shaowen Wang, University of Illinois at Urbana-Champaign  
 CHAIR(S): ChengHe Guan
- 10:00** Philippe Apparicio\*, Urbanisation Culture Société; Mathieu Carrier, INRS Urbanisation Culture Société; Anne-Marie Séguin, INRS Urbanisation Culture Société; Jeremy Gelb, INRS Urbanisation Culture Société; Marie-Eve Mathieu, University of Montreal; Simon Kingham, University of Canterbury, *Comparing individual exposure to air and noise pollution in Montreal during rush hours according to the mode of transportation used.*
- 10:20** Jeremy Gelb\*, INRS Urbanisation Culture Société; Philippe Apparicio, INRS Culture Habitat Société; Anne-Sophie Dubé, University of Montreal; Simon Kingham, University of Canterbury, *The approaches to measuring the potential spatial access to urban health services revisited: Distance types and aggregation-error issues.*
- 10:40** Matthew Adams\*, Ryerson University; Weeberb Requia Junior, McMaster University, *Driving Students to School and the Impact on Local Air Pollution.*
- 11:00** ChengHe Guan\*, Harvard University, *The concept of urban intensity and China's townization policy.*
- 11:20** Gil Tal\*, University of California Davis; Michael Nicholas, Institute of Transportation Studies, UC Davis, *Modeling the Plug-In Vehicles Market in California: A Multi Method Spatial Approach.*

**2277. Scale mismatches in socioecological systems 2: Coastal and Marine Systems**

- Room:** *Harvard, Marriott, Third Floor* (Paper Session)  
 ORGANIZER(S): Marcello Graziano, Central Michigan University; Karen Alexander, University of Tasmania  
 CHAIR(S): Marcello Graziano, Central Michigan University
- 10:00** Marcello Graziano\*, Central Michigan University; Tim O'Higgins, PhD, Environmental Research Institute, University College Cork; Karen Alexander, PhD, Centre for Marine Socioecology, University of Tasmania, *Mismatches in spatial scale of supply and demand in blue growth sectors. The case of Scottish Aquaculture and its consequences for local Welfare.*
- 10:20** C. Patrick Heidkamp\*, Southern Connecticut State University, *The multi-scalar complexities of sustainability transitions in the coastal zone.*
- 10:35** Karyn Morrissey, Dr, University of Exeter Medical School, *The varying economic impacts of Marine Spatial Planning across different geographical scales.*
- 10:50** Kimberly Lynn Ovitz\*, University of Maine, *Unlocking the flip: A harvester-led restoration effort in Maine's sea urchin fishery.*
- 11:05** Teresa R. Johnson\*, University of Maine; Samuel Hanes, University of Maine, *Considering social carrying capacity in the context of sustainable social-ecological aquaculture.*
- Discussant(s): Karen Alexander, University of Tasmania

**2279. Theorizing Land Science (Sponsored by Human Dimensions of Global Change Specialty Group)**

- Room:** *Arlington, Marriott, Third Floor* (Panel Session)  
 ORGANIZER(S): Rinku Roy Chowdhury, Clark University  
 CHAIR(S): Rinku Roy Chowdhury, Clark University  
 Discussant(s): Karl S. Zimmerer, Pennsylvania State University  
 Panelists: Oliver T. Coomes, McGill University; Kelley A. Crews, University of Texas - Austin; Emilio F. Moran, Michigan State University; Darla Munroe, Ohio State University

**2280. Symposium on Human Dynamics in Smart and Connected Communities: Social Media and Big Data 1 (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group, Cartography Specialty Group)**

- Room:** *Berkeley, Marriott, Third Floor* (Paper Session)  
 ORGANIZER(S): Ming-Hsiang Tsou, San Diego State University; Atsushi Nara, San Diego State University; SU HAN
- CHAIR(S): Ming-Hsiang Tsou, San Diego State University
- 10:00** Shih-Lung Shaw, Professor, University of Tennessee, *Human Dynamics Research beyond Time Geography's Path and Prism Concepts.*
- 10:20** Bo Zhao, Oregon State University; Daniel Sui, The Ohio State University; Zhaohui Li, The George Washington University, *Coming Out of Big Data: Mapping the Gay Community in Beijing Using Social Media Feeds.*
- 10:40** Atsushi Nara\*, San Diego State University, *Location-based social networks to examine urban dynamics.*
- 11:00** SU HAN\*, *Estimating and mapping dynamically changing population using Twitter data.*
- 11:20** Tuuli Toivonen\*, University of Helsinki; Henrikki Tenkanen, University of Helsinki; Vuokko Heikinheimo, University of Helsinki; Enrico Di Minin, University of Helsinki, *Social Media Data to Understand the Spatio-Temporal Dynamics in the Recreational Use of Urban Greens.*

**2281. History, Culture, and Landscape**

- Room:** *Clarendon, Marriott, Third Floor* (Illustrated Paper Session)  
 ORGANIZER(S): Program Committee  
 CHAIR(S): Taylor Holden, University of Richmond
- 10:00** Rhena Anna Victoria South\*, University of Central Florida, *A Population and Shelter Needs Assessment of Seminole County, Florida.*
- 10:07** Allison Brooke Gibson, San Jose State University, *Recycled Water and the Carneros Wine Region.*
- 10:14** Yingyue Liu\*, Michigan State University, *A Preliminary Typology of Decision Rules for Agent-Based Models Applied to Agriculture.*
- 10:21** Samuel M. Otterstrom\*, Brigham Young University, *Using the FamilySearch API and GPS to Discover our Nearby Relatives.*
- 10:28** Erin Runde\*, Augustana College, *The Lost City of Kilbourn: An Evolution of Tourism in Wisconsin Dells, WI.*
- 10:35** Jeanne Natalia Natalia Choquehaunca\*, University of Maryland; Willow Lung-Amam, Ph.D., University of Maryland - College Park, *Story Mapping Changing Neighborhoods in Washington, D.C.*
- 10:42** Scott S. Brown, Ph.D.\*, Francis Marion University, *Antecedents of Mexican Folk Housing in Spain.*
- 10:49** Teng Zhang\*, Zuopeng Xiao, *Entrepreneurial activities shaped by institutional environment, evidence from GEM data.*
- 10:56** William Thoman, M.S. in GIS for Development and the Environment\*, *Long Term Assessment of the Effects of Conflict on Agriculture in Syria and Iraq using Landsat Data.*
- 11:03** Ayad Abdulridha\*, University of Baghdad, *The crisis on territorial disintegration in Iraq.*
- 11:10** Taylor Holden\*, University of Richmond, *The Demographics of Annexation.*

**2282. Crisis Modes 2: logics, practices, rearticulations (Sponsored by Political Geography Specialty Group, Socialist and Critical Geography Specialty Group)**

- Room:** *Dartmouth, Marriott, Third Floor* (Paper Session)  
 ORGANIZER(S): Melissa Fernandez; Javier Arbona, UC Davis  
 CHAIR(S): Javier Arbona, UC Davis  
 Introducer: Javier Arbona
- 10:20** Johanna Taylor\*, Stanford Arts Institute, *Persistent Crisis*

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& Art Engagement in New Orleans.

**10:40** Lidia Katia C. Manzo, Maynooth University; Sinead Kelly, Maynooth University, *Lived experiences of resistance and solidarity among working-class communities in Dublin's post-crash gentrification.*

**11:00** Desiree Fields\*, University of Sheffield, *Governing New York's Urban Crisis: A Genealogy.*

Discussant(s): Ryan Centner, London School of Economics

**2283. Hurricanes II: Risk, Vulnerability, Resilience (Sponsored by Coastal and Marine Specialty Group, Climate Specialty Group)**

*Room:* Exeter, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Harry Williams, University of North Texas; Kam-Biu Liu, Louisiana State University

CHAIR(S): Harry Williams, University of North Texas

**10:00** Jennifer Collins\*, University of South Florida; Robin Ersing, University of South Florida, *Evacuation behavior measured at time of expected hurricane landfall: An assessment of the effects of social networks.*

**10:20** Jill C. Trepanier, Ph.D.\*, Louisiana State University; Jianguo Yuan, Louisiana State University; Thomas H. Jagger, Ph.D., Florida State University, *The combined risk of extreme tropical cyclone winds and storm surges along the U.S. Gulf of Mexico Coast.*

**10:40** Andra J Garner\*, Ph.D., Department of Marine and Coastal Sciences, Rutgers University; NSF Earth Sciences Postdoctoral Scholar; Michael E Mann, Ph.D., Department of Meteorology and Atmospheric Science, Penn State University; Kerry Emanuel, Ph.D., Department of Earth and Planetary Sciences, Massachusetts Institute of Technology; Ning Lin, Ph.D., Department of Civil and Environmental Engineering, Princeton University; Benjamin P Horton, Ph.D., Department of Marine and Coastal Sciences, Rutgers University; Earth Observatory of Singapore, Division of Earth Sciences, Nanyang Technological University; Robert Kopp, Ph.D., Department of Earth and Planetary Sciences, Rutgers University; Jeffrey P Donnelly, Ph.D., Woods Hole Oceanographic Institution; Richard B Alley, Ph.D., Department of Geosciences, Penn State University; Robert DeConto, Ph.D., Department of Geosciences, University of Massachusetts-Amherst; David Pollard, Ph.D., Earth and Environmental Systems Institute, Penn State University, *The Changing Threat of Coastal Flooding Associated with Tropical Cyclones in New York City, From the Past Millennium to 2300 C.E..*

**11:00** Erica Elaine Adams, MS, MPH\*, CDC/ATSDR; Hallisey Elaine, MA, CDC/ATSDR; Grete Wilt, MPH, CDC/ATSDR; Jessica Kolling, CDC/ATSDR; Barry Flanagan, PhD, CDC/ATSDR, *Defining the Scope of the Social Vulnerability Index.*

**11:20** Jianguo Yuan\*, Louisiana State University; Jill Trepanier, Louisiana State University, *Spatial and Temporal Variability of Tropical Cyclone Strikes in Japan.*

**2284. Hegemony and Resistance**

*Room:* Fairfield, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Joel Ian Deichmann, Bentley University

**10:00** Malcolm Alan Compitello\*, University Of Arizona; Malcolm Alan Compitello, Malcolm Compitello, University of Arizona, *From Resistance, To Resistance . . . To Resistance and Back Again: Cultural Precariousness and Contesting 15-M Exceptionalism.*

**10:20** Cesar Humberto Acuña Espinoza, Philosopher\*, Colegio De Sonora; Cesar Humberto Acuña Espinoza, Philosopher, Colegio de Sonora, *'Growth-Development' history in Mexico: Porfirism and the Yaqui exile (1877-1904).*

**10:40** Joel Ian Deichmann, PhD\*, Bentley University; Abdolreza Eshghi, PhD, Bentley University; Dominique Houghton, PhD, Bentley University; Mingfei Li, PhD, Bentley University, *Employing Terry Jordan's Socio-Economic and Political Definition of Europeans as a Framework for Understanding European Convergence from 2001-2013..*

**2285. Infrastructures of Nature and the Nature of Infrastructures (Sponsored by Cultural and Political Ecology Specialty Group)**

*Room:* Salon H, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Jessica Barnes, University of South Carolina

CHAIR(S): Jessica Barnes, University of South Carolina

**10:00** Amy Zhang\*, Harvard University, *Waste infrastructure in Guangzhou's urban recycling campaign.*

**10:20** Heather Swanson\*, Aarhus University; Marissa Weiss, Harvard Forest, *Mobile infrastructures and insect hitchhikers: How the wood pallet has transformed global shipping and U.S. forests.*

**10:40** Rosa Elena Ficek\*, University of Puerto Rico at Cayey, *River and Road Mobilities in Eastern Panama's Landscapes of Un/liveability.*

**11:00** Ateya Khorakiwala\*, Harvard University, *Infrastructural Biopolitics: Bureaucracies of care in 1970s India.*

Discussant(s): Susanne E. Freidberg, Dartmouth College

**2286. Design, Biopolitics, and Resilience in a Complex World II (Sponsored by Political Geography Specialty Group, Cultural and Political Ecology Specialty Group)**

*Room:* Salon I, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Kevin Grove, Florida International University; Sara Holiday Nelson, University of Minnesota

CHAIR(S): Kevin Grove, Florida International University

**10:00** Ross Exo Adams, Ph.D.\*, Iowa State University, *Urbanizing Resilience, or An inquiry Into the Post-Historical Body.*

**10:20** Eric M. Huntley, MUP\*, University of Kentucky, *An Episodic History of Anticipatory Practice in Landscape Architecture.*

**10:40** Maros Krivy\*, Estonian Academy of Arts, *Towards a critique of biourbanism.*

**11:00** Sharon Moran\*, State University of New York - Env. Science and Forestry, Syracuse, NY, *Exploring emergency preparedness, resilience, and coastal communities.*

Discussant(s): Simin Davoudi, University of Newcastle

**2287. Dam Removal: Possibilities and Controversies (Sponsored by Cultural and Political Ecology Specialty Group, Water Resources Specialty Group, Indigenous Peoples Specialty Group)**

*Room:* Salon J, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Jessica T. Miller, Temple University; Enrique Lanz Oca, BMCC, CUNY -; Catherine King, The Graduate Center, City University of New York

CHAIR(S): Jessica T. Miller, Temple University

**10:00** Ludovic Drapier\*, Laboratoire de Géographie Physique UMR 8591 - Université Paris Est-Créteil; Laurent Lespez, Laboratoire de Géographie Physique UMR 8591 - Université Paris Est-Créteil; Marie-Anne Germaine, Laboratoire Mosaïques UMR LAVUE 7218 - Université Paris Ouest Nanterre La Défense, *Removing dams in France and in the USA: a comparison between the Orne River (Normandy, France) and the Musconetcong river (New Jersey, USA).*

**10:14** Nicolas Bergmann\*, Montana State University, *Free-Flowing or Flowing Freely: Rethinking Mythic Landscapes Down the West's "Last Best River".*

**10:28** Enrique Lanz Oca, PhD in Geography\*, BMCC, CUNY -, *Greening Dams: Myths and Infrastructural Realities.*

**THURSDAY, April 6 • 10:00 AM - 11:40 AM • 2200**

**10:42** Sarmistha Chatterjee\*, University of Delaware; Afton Clarke-Sather, University of Delaware; Melinda D. Daniels, Stroud Water Research Center; Matthew Sanderson, Kansas State University; Jason Bergtold, Kansas State University; Marcellus Caldas, Kansas State University; Martha Mather, Kansas State University, *How perceptions can influence surface water sustainability in the central Great Plains of Kansas?*.

**10:57** Kelsey Matson\*, Montana State University, *Restoring a River: Materialism and the Elwha*.

**11:11** Frank J. Magilligan\*, Dartmouth College; Chris Sneddon, Dartmouth College; Coleen A. Fox, Dartmouth College, *Conflicts over Dam Removal in New England: The Good, the Bad, and the Ugly*.

**11:25** Zbigniew Jakub Grabowski\*, Portland State University - Geography; Mary Ann Rozance, Portland State University - Urban Studies; Ashlie Denton, Portland State University - Public Affairs and Policy; Marissa Matsler, Portland State University - Urban Studies; Sarah Kidd, Portland State University - Environmental Science, *Dam removal PFESTS: dimensional co-production of politics, finance, environment, society and technology in restoration oriented infrastructure interventions*.

Discussant(s): Jessica T. Miller, Temple University; Catherine King, The Graduate Center, City University of New York

**2288. Geodesign Education Part 2: Reactions and Recommendations (Sponsored by Geography Education Specialty Group)**

*Room:* Salon K, Marriott, Fourth Floor (Panel Session)

ORGANIZER(S): Darren Ruddell, University of Southern California

CHAIR(S): Darren Ruddell, University of Southern California

Panelists: Michele Campagna, Università di Cagliari; Brian Orland; Mark Manone, Northern Arizona University

**2289. Deforestation and forest degradation in the Congo Basin - 2 (Sponsored by Geographic Information Science and Systems Specialty Group, Remote Sensing Specialty Group, Africa Specialty Group)**

*Room:* Vineyard, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Giuseppe Molinaro, University of Maryland; Liz Goldman, World Resources Institute

CHAIR(S): Giuseppe Molinaro, University of Maryland

**10:00** Janet Nackoney\*, University of Maryland, *An Examination of Relationships Between Tree Cover Loss, Human Demographics, Agricultural Livelihoods and Community Forest Use in Northern Democratic Republic of the Congo*.

**10:20** Florence Wulfo Anfaara\*, University of Western Ontario, *Correlates of Women's Autonomy in the Democratic Republic of Congo*.

**10:40** Richard Achia Mbih\*, Pennsylvania State University; Steven L. Driever, University of Missouri-Kansas City; Stephen K. Ndzeidze, Oregon State University, *The future of pastoralism in the Western Highlands of Cameroon*.

**11:00** Tyler Schlachter\*, Indiana University; Tom Evans, PhD, Indiana University; Kurt Waldman, PhD, Indiana University; Sean Sweeney, Indiana University, *Variability of household fuelwood use among smallholder farmers in Sub-Saharan Africa*.

**2290. Effective pedagogies for sustainability and climate change in higher education: Session 1 (Sponsored by Human Dimensions of Global Change Specialty Group, Climate Specialty Group, Geography Education Specialty Group)**

*Room:* Yarmouth, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Jeff Robert Baldwin, Sonoma State University

CHAIR(S): Jeff Robert Baldwin, Sonoma State University

**10:00** Melissa Hinten\*, University of Tennessee, *Sustainability Learning Outcomes through Service-Learning*.

**10:20** Phoebe C. Godfrey\*, University of Connecticut, *"You are an Ecosystem": Student Embodiment Practice for Effective Teaching of Climate Change and Sustainability*.

**10:40** Robert J. Mason\*, Temple University, *Sustainability Education in Cross-National Context: Studying Sustainability Abroad*.

**11:00** Lewis Winks\*, University of Exeter, *Discomfort in the field - making use of a 'pedagogy of discomfort' to advance the potential of outdoor learning for sustainability education*.

**11:20** Jeff Robert Baldwin, PhD\*, Sonoma State University, *Sustainability Education through Active-Learning in Large Lecture Settings: Evaluation of Four Out-of-Class Exercises*.

**2291. Tracking and Monitoring Animal Movements in the 21st Century (Sponsored by Biogeography Specialty Group, Animal Geography Specialty Group)**

*Room:* Nantucket, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Jennifer Burnham, Augustana College

CHAIR(S): Jennifer Burnham, Augustana College

**10:00** Jason K. Blackburn\*, University of Florida; Andy Lyons, PhD, University of California Berkeley; Emily Dinh, University of Florida; Anni Yang, University of Florida; Jeremy Orange, University of Florida; Katherine Sayler, University of Florida; Samantha Wisely, University of Florida, *Time Use Mapping Versus Home Range-Specific Estimates of Host Revisitation and Duration Metrics to Examine Indirect Disease Transmission from Wildlife GPS Movements*.

**10:20** Rebecca W Loraamm, PhD\*, University of Oklahoma, *A Movement Approach to Wildlife-Road Interactions*.

**10:40** Andrea Presotto, Ph.D.\*, Stockton University; Richard Fayrer-Hosken, Ph.D., San Diego Zoo Institute for Conservation Research, *What do GIS and remote sensing can tell us about spatial cognition in wild elephants?*.

**11:00** Jennifer L Burnham, Ph.D.\*, Augustana College; Kurt K Burnham, Ph.D., High Arctic Institute; Zoe Robb, Augustana College; Bridger Konkel, High Arctic Institute, *Spatial Analysis of Migratory Pathways of Atlantic Puffins (*Fratercula arctica*) from Northwest Greenland Using Geolocator Technology*.

**2293. Emerging geographical thoughts in China (Sponsored by China Specialty Group)**

*Room:* Orleans, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Xiaobo Su, University of Oregon

CHAIR(S): Yi-Chia Chen, University of Colorado - Denver

**10:00** Yi-Chia Chen\*, University of Colorado - Denver, *Spinning a Floating Heterotopia: Geographical Reversals of a Border Island's Orientation on the Southeast China Coast*.

**10:20** Collin Livingston Chambers\*, Syracuse University, *China, Geography, and the Global Class War*.

**10:40** Zuyi Lu\*, School of Geography and Planning, Sun Yat-sen University; Geng Lin, School of Geography and Planning, Sun Yat-sen University, *Concerning uncertainty and context: the rethink of hybridity in post-rural China*.

**11:00** Shuhan Shi\*, Peking University; Kongjian Yu, Peking University, *Inheritance and Development: Wisdom of Traditional Irrigation Systems in Huizhou Area, China*.

**2294. Risks and disasters in China-2 (Sponsored by China Specialty Group)**

*Room:* Hyannis, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Xiaobo Su, University of Oregon



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CHAIR(S): Yingqi Zhu

**10:00** Ran Wang\*, School of Geography, Beijing Normal University; Shujuan Cui, School of Geography, Beijing Normal University; Jing'ai Wang, School of Geography, Beijing Normal University; Laboratory of Regional Geography, Beijing Normal University, *Change Characteristic Analysis on spatial coexistence and temporal co-occurrence of meteorological disasters in China.*

**10:20** Mingyue Zhao\*, College of Urban and Environmental Sciences, Laboratory for Earth Surface Processes, Ministry of Education, Peking University, Beijing 100871, China; Yanglin Wang, College of Urban and Environmental Sciences, Laboratory for Earth Surface Processes, Ministry of Education, Peking University, Beijing 100871, China; Jian Peng, College of Urban and Environmental Sciences, Laboratory for Earth Surface Processes, Ministry of Education, Peking University, Beijing 100871, China, *Spatiotemporal characteristics of tropical cyclones and disaster risk assessment in east regions of China.*

**10:40** Yingqi Zhu\*, Ying Wang, *Study on spatial pattern of small and medium sized natural disasters in China: a case of earthquake, flood and drought.*

**11:00** Shuai HE\*, Institution for Disaster Management and Reconstruction (IDMR), Sichuan University; Weiping Wang, The State Key Laboratory of Earth Surface Processes and Resource Ecology, Beijing Normal University; Saini Yang, The State Key Laboratory of Earth Surface Processes and Resource Ecology, Beijing Normal University, *Evolution Mechanism Research Of Provincial Social Vulnerability Of Natural Hazards In China.*

**2295. Invasive Species, Vegetation Change, and Human Response (Sponsored by Biogeography Specialty Group)**

*Room:* Falmouth, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Laura Moley, Benedictine College

CHAIR(S): Laura Moley, Benedictine College

**10:00** Laura Moley, PhD\*, Benedictine College; Laura Moley, PhD, Benedictine College, *Tree-Lined Streets: Suburban Response to Invasive Pest Species Affecting Vegetation Communities.*

**10:20** Erik William Lyttek\*, Montclair State University, *Modelling the Geographic Spread of Emerald Ash Borer in New Jersey and its Economic Impacts.*

**10:40** Michelle Andrzejewski, Keene State College; Kristin N Bixby, Keene State College; Nicholas J Hedges, Keene State College; Shauna C. Sousa\*, Keene State College, *Boulevard of Broken Trees: A vulnerability assessment and proposed management for Emerald Ash Borer in Keene, New Hampshire.*

**11:00** Quentin James Clark\*, San Francisco State University; Barbara A Holzman, PhD, San Francisco State University; Ellen Hines, PhD, San Francisco State University; Gerry McChesney, U.S. Fish and Wildlife Service, *Inventory and Mapping Invasive Plant Species on South Farallon Islands, California.*

**11:20** Tara Mazurczyk\*, Pennsylvania State University; Robert P. Brooks, Pennsylvania State University; Sarah Chamberlain, Pennsylvania State University; Hannah Ingram, Pennsylvania State University, *Invasive plant species displace native vegetation and reduce the condition of freshwater wetlands.*

**2296. Application of Unmanned Aerial Vehicles in Environmental and Resource Management - II (Sponsored by Geographic Information Science and Systems Specialty Group, Remote Sensing Specialty Group)**

*Room:* Maine, Marriott, Fifth Floor (Paper Session)

ORGANIZER(S): Anthony Ravindra Cummings, University of Texas at Dallas; Donna M. Delparte, Idaho State

University

CHAIR(S): Anthony Ravindra Cummings, University of Texas at Dallas

**10:00** Donna Selch\*, Stony Brook University; Mark J. Rochelo, Florida Atlantic University, *UAV High Resolution Data and Photogrammetry Allows for Valuable Investigation and Analysis of Wetland Communities.*

**10:16** Anita Simic\*, Bowling Green State University; Kristin Arend, Ohio Department of Natural Resources, Division of Wildlife, Old Woman Creek National Estuarine Research Reserve, Huron, Ohio, USA; Christine Mayer, University of Toledo, Department of Environmental Sciences and Lake Erie Centre, Toledo, Ohio, USA; Martin A. Simonson, University of Toledo, Department of Environmental Sciences and Lake Erie Centre, Toledo, Ohio, USA; Scudder Mackey, Ohio Department of Natural Resources, Office of Coastal Management, Sandusky, Ohio, USA, *Visible Atmospherically Resistant Index (VARI) for shade detection and removal in Unmanned Aerial Vehicle (UAV) images.*

**10:32** MyungSik Cho, Master Course\*, Department of geography, Kyunghee university, Seoul; Jinmu Choi, Professor, Department of geography, Kyunghee university, Seoul, *Extracting Precise Information of Alley by Multi-Ray of UAV.*

**10:48** Sara Matthews\*, Humboldt State University, *Utilizing unmanned aircraft systems for ecological monitoring in transboundary contexts: an exploration of aerial governmentality in collaboratively managed land.*

**11:04** YiFan Chung, Graduate student\*, Department of Geography, National Taiwan Normal University; Kuo-Chen Chang, Professor, Department of Geography, National Taiwan Normal University, *Application of UAV Multispectral Remote Sensing Images in Fish Farm Monitoring.*

**11:20** Anthony Ravindra Cummings\*, University of Texas at Dallas; Garvin R Cummings, Hydrometeorological Services; Yogita Karale, The University of Texas at Dallas; Persaud Moses, Wowetta Village, North Rupununi; Zacharias Norman, Wowetta Village, North Rupununi; Victor Captain, Surama Village, North Rupununi, *Mapping Change on Swidden Agriculture Plots Using Unmanned Aerial Vehicles.*

**2297. Risk Communication and Resilience - Factors Influencing Resilience (Sponsored by Hazards, Risks, and Disasters Specialty Group)**

*Room:* Massachusetts, Marriott, Fifth Floor (Paper Session)

ORGANIZER(S): Bandana Kar, University of Southern Mississippi; David M. Cochran, University of Southern Mississippi

CHAIR(S): David M. Cochran, University of Southern Mississippi

**10:00** Jason Thistlethwaite\*, University of Waterloo; Craig Brown\*, University of Waterloo; Daniel Henstra, University of Waterloo; Daniel Scott, University of Waterloo, *Flood risk management, land-use planning, and the experiences and perceptions of flood-prone Canadians.*

**10:20** Anne Siders, J.D.\*, Stanford University, *A Functional Framework to Assess Adaptive Capacity at Multiple Scales.*

**10:40** Lucinda David, PhD candidate\*, Lund University, *Social Capital and Resilience in the Time of Regional Economic Crises.*

**11:00** Nicole Suzanne Hutton\*, Old Dominion University, *Strategies for Non-Profit Organizational Resilience: Transitioning from Response to Recovery in Christchurch, New Zealand.*

**11:20** David M. Cochran, Ph.D.\*, University of Southern Mississippi; Bandana Kar, Ph.D., University of



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Southern Mississippi; Bret Blackmon, Ph.D.,  
University of Southern Mississippi; Joohee Lee, Ph.D.,  
University of Southern Mississippi; Tim Rehner, Ph.D.,  
University of Southern Mississippi, *Socio-Spatial  
Characteristics and Personal Experience as Factors  
Influencing Variations in Perceptions of Risk and  
Resilience on the Mississippi Gulf Coast.*

- 2298. 'CITY Perspectives' (1): What Theories Do We Need for a Revitalized Urban Praxis? (Sponsored by Urban Geography Specialty Group, Socialist and Critical Geography Specialty Group, Routledge)**

*Room:* New Hampshire, Marriott, Fifth Floor (Panel Session)

ORGANIZER(S): Mark Davidson, Clark University

CHAIR(S): Bob Catterall, CITY

Panelists: Mark Davidson, Clark University; Sharon M. Meagher, Widener University; Miguel Robles-Duran, New School University; Eduardo Mendieta, Pennsylvania State University; Bob Catterall, CITY

- 2299. Cognition, Behavior and Design 1 (Sponsored by Geographic Information Science and Systems Specialty Group, Environmental Perception and Behavioral Geography Specialty Group, Cartography Specialty Group)**

*Room:* Vermont, Marriott, Fifth Floor (Paper Session)

ORGANIZER(S): Alexander Savelyev, The Pennsylvania State University

CHAIR(S): Alexander Savelyev, The Pennsylvania State University

**10:00** Isabella Kübler, University of Zurich; Kai-Florian Richter, Umeå University; Sara Irina Fabrikant\*, University of Zurich, *Does uncertainty visualization influence map-based reasoning about natural hazards?.*

**10:20** Rui Li\*, University at Albany - SUNY, *Off-screen Landmarks on Mobile Devices: Visual Variables and Their Roles.*

**10:40** Scott M. Freundschuh\*, University of New Mexico, *Allemande Left: Pilot Study Assessing Spatial Abilities of Square Dancers.*

**11:00** Jiayan Zhao\*, Pennsylvania State University; Peter LaFemina, Pennsylvania State University; Jan Oliver Wallgrün, Pennsylvania State University; Danielle Oprean, Pennsylvania State University; Alexander Klippel, Pennsylvania State University, *Developing a VR toolbox for geoscience research and education.*

**11:20** Alexander Savelyev\*, Texas State University, *Typographic Overprinting ? Using Typographic Art Techniques for Multi-Scale (Geo)visualization of Text.*

## THURSDAY, April 6 • 11:50 AM - 1:10 PM • 2300

- 2303. Special session featuring Rush Holt, CEO of the American Association for the Advancement of Science (AAAS):  
:"Advancing Science in the Public Arena" - Featured Session**  
*Room: Room 103, Hynes, Plaza Level (Panel Session)*  
Organizer and Chair: **Douglas Richardson**, American Association of Geographers  
Speaker: **Rush Holt**, AAAS  
Discussants: **David Berrigan**, U.S. National Institutes of Health - National Cancer Institute  
**Antoinette WinklerPrins**, National Science Foundation

Rush D. Holt, Ph.D., chief executive officer of the American Association for the Advancement of Science (AAAS), will deliver a featured talk entitled, "Advancing Science in the Public Arena." Holt is a Phi Beta Kappa graduate of Carleton College in Northfield, Minnesota, and he holds M.A. and Ph.D. degrees in physics from New York University. He is an elected fellow of AAAS, the American Physical Society, and Sigma Xi, and he holds honorary degrees from multiple universities. He is also a former Congressman for New Jersey and a Jeopardy Champion.

- 2317. MapJam I (Sponsored by AAG Mapathon)**  
*Room: Room 206, Hynes, Second Level (Panel Session)*  
ORGANIZER(S): Sven Fuhrmann, George Mason University;  
Thomas Gertin, ActioNet; Patricia A. Solis, Texas Tech University - Lubbock, TX  
CHAIR(S): Thomas Gertin, ActioNet

- 2318. Specialty Group Chairs Meeting**  
*Room: Room 209, Hynes, Second Level (Meeting Session)*

- 2319. Department Chairs Luncheon - Special Event**  
Thursday, April 6, 11:40 a.m. - 2:00 p.m.  
*Room: Room 210, Hynes, Second Level*

The Department Chairs' Luncheon, chaired by AAG Vice President, Derek Alderman, is an opportunity for existing or incoming Department or Program Chairs to discuss issues of administrative importance and share strategies for success. There is a \$35 registration fee to cover the cost of the lunch. Please see the AAG Registration Desk if you wish to register for this event. The discussion topic in Boston will be: "How Geography Departments Can Benefit from Becoming Better Storytellers: Sharing ideas and innovations for program marketing, undergraduate recruitment, alumni relations, and wider public outreach."

# THURSDAY, April 6 • 1:20 PM - 3:00 PM • 2400

Poster Sessions for Thursday are located on pages 174-182.

**2401. Manufacturing the China Model: Transnational politics, practices, and outcomes (Sponsored by China Specialty Group, Economic Geography Specialty Group)**

*Room:* Room 101, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): Tyler Harlan, University of California, Los Angeles; Jia-Ching Chen, University of California  
 CHAIR(S): Tyler Harlan, University of California, Los Angeles  
 1:20 Adina Matisoff\*, UCLA - Geography & Urban Analysis, *(De)Constructing the Asian Infrastructure Investment Bank: The role of non-governmental organizations in creating and contesting global governance.*  
 1:40 XIAO HAN\*, University of Melbourne, *Shaping China's large dam construction industry and its going out.*  
 2:00 Jia-Ching Chen\*, University of California, Santa Barbara, *Models of Compliance, Closure and Consent to Dispossession in China's Master Planned New Towns.*  
 2:20 Jessica Gordon\*, Massachusetts Institute of Technology, *Climate Change Adaptation Planning in China: Establishing an Integrated Model?.*  
 Discussant(s): Alana Boland, University of Toronto

**2402. Enacting an inclusive professional community (Sponsored by AAG Careers and Professional Development Theme, Geographic Perspectives on Women Specialty Group)**

*Room:* Room 102, Hynes, Plaza Level (Panel Session)  
 ORGANIZER(S): Farhana Sultana, Syracuse University; Amy Piedalue, University of Washington  
 CHAIR(S): Audrey L. Kobayashi, Queen's University  
 Discussant(s): Lawrence D. Berg, University of British Columbia; Yolanda Valencia, University of Washington; Michelle D. Daigle, University of British Columbia  
 Panelists: Pamela Moss, University of Victoria; Farhana Sultana, Syracuse University; Nicole Laliberte, University of Toronto - Mississauga; Patricia J. Lopez, Dartmouth College; Carolyn Finney, University of Kentucky

**2403. Integrating Geography & Geospatial Methods Into Humanitarian Response & Human Rights Documentation: Lessons from Five Years of the Signal Program on Human Security & Technology at the Harvard Humanitarian Initiative (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme)**

*Room:* Room 103, Hynes, Plaza Level (Panel Session)  
 ORGANIZER(S): Mainstreaming Human Rights; John Wertman, American Association of Geographers  
 CHAIR(S): Mainstreaming Human Rights  
 Panelists: Isaac Baker, Harvard Humanitarian Initiative; Faine Greenwood, Harvard Humanitarian Initiative; Lars Bromley, United Nations Institute for Training and Research; Lee R. Schwartz, U.S. Department of State

**2404. Author-Meets-Critics: Brenda Parker's 'Masculinities and Markets: Raced and Gendered Urban Politics in Milwaukee'**

*Room:* Room 104, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): Heather McLean, University of Glasgow; Brenda Parker, University of Illinois at Chicago  
 CHAIR(S): Leslie Kern, Mount Allison University  
 Discussant(s): Joshua F. Inwood, Pennsylvania State University; Ebru Ustundag, Brock University; Winifred Curran, DePaul University; Rajyashree Reddy, University of Toronto; Heather McLean, University of Glasgow

**2405. Hazards Risks and Disasters 8 - Integrative Frameworks and Analysis (Sponsored by Hazards, Risks, and Disasters Specialty Group)**

*Room:* Room 105, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): Eric Tate, University of Iowa; Johanna L. Ostling  
 CHAIR(S): Eric Tate, University of Iowa  
 1:20 John Pritchard, P.E., CFM\*, Wood Rodgers, Inc.,

*Integrating Social Vulnerability and Flood Safety Modeling.*

1:40 Sean P. McLaughlin\*, West Chester University; Martin Katirai, Ph.D., West Chester University; Megan Heckert, Ph.D., West Chester University, *Examining Vulnerability to Natural Disasters in the Commonwealth of Pennsylvania.*  
 2:00 Sven Fuchs\*, University of Natural Resources and Life Sciences Vienna, Austria; Veronika Röthlisberger, University of Bern, Mobiliar Lab for Natural Risks, Oeschger Centre for Climate Change Research, Switzerland; Andreas Zischg, University of Bern, Mobiliar Lab for Natural Risks, Oeschger Centre for Climate Change Research, Switzerland; Thomas Thaler, University of Natural Resources and Life Sciences, Institute for Mountain Risk Engineering, Vienna, Austria; Margreth Keiler, University of Bern, Institute of Geography, Switzerland, *A co-evolutionary perspective in natural hazard management: exposure and policy response in the European Alps.*  
 2:20 Bradley Wilson\*, University of Arkansas, *A Categorization Strategy for using Earthquake Risk Indices in Population Flux States: Application to the Refugee Crisis in Turkey.*

**2406. (De)Stigmatising Sexscapes: Politics, Policy and Performance IV: 4. Production, Consumption and Reflection (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme, Sexuality and Space Specialty Group)**

*Room:* Room 107, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): Paul J. Maginn, University of Western Australia; Emily Cooper, University of Central Lancashire; Erin Sanders-McDonagh, Middlesex University  
 CHAIR(S): Emily Cooper, University of Central Lancashire  
 1:20 Yo-Hsin Yang\*, *Negotiating/resisting stigma of sexscapes: gay men's sex moral performances on tour.*  
 1:40 Victor Trofimov\*, European University Viadrina, *From commercial sex to homonormativity: changing landscape of male street sex work in Berlin.*  
 2:00 Katharine Parker\*, Northumbria University, *Public Sex Environments in Contemporary Sexscapes: A Case Study from North East England.*  
 2:20 Nick McGlynn\*, University of Brighton, *Too Fat, Too Thin, Just Right?: Stigmatised Bodies in Bear Spaces.*  
 2:40 Philip Birch\*, Western Sydney University, *Prostitution and Procuring Sexual Services: Why men buy sex?.*

**2407. Precarious Times, Precarious Politics: Whiteness, Masculinity, and Working-Class Lives (Sponsored by Late-Breaking News Special Session Track)**

*Room:* Room 108, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): Jamie L. Winders, Syracuse University; Barbara Ellen Smith, Virginia Tech  
 CHAIR(S): Jamie L. Winders, Syracuse University  
 1:20 Katie Mazer\*, University of Toronto, *Vulnerable talent, just-in-time work: The tar sands talent pipeline.*  
 1:40 Jamie L. Winders\*, Syracuse University; Barbara Ellen Smith\*, Virginia Tech, *Whiteness, Masculinity, and Working-Class Lives.*  
 2:00 Sara Dorow\*, University of Alberta, *The Precarity of Mobile White Masculinities in the Oil Patch.*  
 2:20 Lise Nelson\*, Penn State University, *Narratives of whiteness and racially transgressive embodiments of place in the rural U.S. South.*  
 Introducer: Barbara Ellen Smith

**2408. Architecture as urban generator? Urban competitiveness 3/4 (Sponsored by Urban Geography Specialty Group, Cultural Geography Specialty Group, Economic Geography Specialty Group)**

*Room:* Room 109, Hynes, Plaza Level (Paper Session)

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ORGANIZER(S): Nadia Alaily-Mattar, Munich University of Technology; Alain Thierstein, Munich University of Technology; Johannes Dreher, Technical University Munich

CHAIR(S): Davide Ponzini

**1:20** Shoshanah B.D. Goldberg-Miller, PhD\*, The Ohio State University, *China's Urban Cultural Anchors: Multiple Streams as a lens on Beijing's 798 Arts District, National Centre for the Performing Arts & Today Art Museum.*

**1:40** Minji Kim\*, University of Wisconsin - Milwaukee, *Neighborhood change into a tourist destination with the implementation of public art: the case of Seoul.*

**2:00** Johannes Dreher\*, Technical University Munich, *The significance of economic aspects in the use of star architecture for urban regeneration. A comparison of three case studies.*

**2:20** Hélène Pébarthe-Désiré\*, University of Angers, France; Hélène Pébarthe-Désiré, University of Angers, *The welcoming of congress and conventions by the cities : a way rethink governance models and interurban competitions in the urban studies..*

Discussant(s): Allan Douglas Cochrane, Open University

**2409. Institutional resilience in social-ecological and political systems: Designing ethnographic, embedded, and environmental approaches at multiple levels (Sponsored by Cultural and Political Ecology Specialty Group, Latin America Specialty Group, Human Dimensions of Global Change Specialty Group)**

Room: Room 110, Hynes, Plaza Level (Panel Session)

ORGANIZER(S): Julio Postigo, National Opinion Research Center at the University of Chicago

CHAIR(S): Karl S. Zimmerer, Pennsylvania State University  
Introducer: Karl S. Zimmerer

Panelists: Aurélie Bernard, University of Maine - France; Anne Jerneck, Lund University; Laura C. Schneider, Rutgers University; Julio Postigo, National Opinion Research Center at the University of Chicago

**2410. Planetary Urbanization 3: Territories of Extended Urbanization**

Room: Room 111, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Christian Schmid, ETH Zurich

CHAIR(S): Lindsay Sawyer, ETH Zürich

Introducer: Ross Exo Adams

**1:40** Lindsay Blair Howe, MSc ETH\*, Swiss Federal Institute of Technology, *The Production of Extended Urban Regions: The Case of Johannesburg.*

**2:00** Kit Ping Wong\*, ETH Zurich, *Territorialization of Urbanization: Eastern Pearl River Delta.*

**2:20** Milica Topalovic, Assistant Professor\*, ETH Zurich Department of Architecture, *Singapore's Hinterlands: Urbanization and Planning of Territory Beyond the City.*

**2:40** Nancy Couling, Dr\*, EPFL, *Unfamiliar and Interpenetrating: Urbanization Processes in Ocean Space.*

**2411. A New Map of Global Ecological Marine Units (EMUs) - An Environmental Stratification Approach (Sponsored by Esri, USGS) - Featured Session**

Room: Room 200, Hynes, Second Level (Paper Session)

Organizers: American Association of Geographers

Introduction: **Becky Pendergast**, American Association of Geographers

Speakers:

**Roger G Sayre**, PhD, United States Geological Survey; **Dawn J. Wright**, Esri; **Charlie Frye**, Esri; **Sean P. Breyer**, Esri; **Kevin A. Butler**, Esri; **Keith Van Graafeiland**, Esri

In this U.S. Geological Survey-sponsored session, we will present a new global ecological marine units (EMU) map and booklet developed in an innovative public/private/NGO/academia partnership between the USGS, Esri, and scientists from other government organizations, NGOs, and universities. An AAG-published booklet characterizing the EMU has been provided to all conferencegoers to this meeting, and we will describe the work further in a set of presentations and live demonstrations of the data and apps. This work is a first-of-its-kind effort to produce a globally comprehensive and consistent, data derived, and true 3D marine ecosystems map and dataset. The EMU resources are open access, and include an EMU Explorer tool which allows anyone with an internet connection to query any point on the surface of the ocean and be provided with physical and chemical environmental information from the sea surface to the seafloor, and a description of the EMU to which the point belongs. The EMU data are intended to be useful for a variety of research and management applications, including climate change impact assessments, ecosystem accounting, and marine protected area network planning.

**2412. Studying Interspecies Relations and Staying with the Trouble I: Making and Maintaining Relations (Sponsored by Socialist and Critical Geography Specialty Group, Animal Geography Specialty Group, Indigenous Peoples Specialty Group)**

Room: Room 201, Hynes, Second Level (Paper Session)

ORGANIZER(S): Julia M H Sizek, University of California, Berkeley; Ruth Elizabeth Goldstein

CHAIR(S): Julia M H Sizek, University of California, Berkeley

**1:20** RDK Herman\*, National Museum of the American Indian, *"Who will look after the stones?" Rocks as family in Hawaiian culture..*

**1:40** Alice J. Hovorka\*, Queen's University, *Species Relations of Power in Botswana: Making of a Nation.*

**2:00** Emily Wanderer\*, University of Pittsburgh, *Making Friends with Birds: Social Attraction, Colony Restoration, and Scientific Networks.*

**2:20** Bradley S. Tatar, UNIST\*, UNIST, *The Charisma of Nature: Whale and Dolphin Conservation and Claim-making in Ecuador.*

**2:40** Jeffrey Vance Martin\*, University of California - Berkeley, *In the Shadow of the Wolf: Human-Wildlife Conflict and Land Use Politics in the New West.*

**2413. Geographies of Food and Agriculture Special Topics - Agribusiness (Sponsored by Geographies of Food and Agriculture Specialty Group)**

Room: Room 202, Hynes, Second Level (Paper Session)

ORGANIZER(S): Colleen Hammelman

CHAIR(S): August C.M. Van Westen, Utrecht University

**1:20** Consuelo Guayara Sanchez, Ph.D\*, University of Iowa, *Organic Coffee Production Associative Forms: Between "NGOization" of Rural Development and Community Activism?.*

**1:40** Robert M. Bridi\*, York University, *Small Seeds, Big Business, and Agro-Biotech in the Canadian Context.*

**2:00** Stephen Robert Madigosky\*, Widener University, *Empowering Coffee Farmers and Students: Undergraduate Research to Support Costa Rican Shade Grown Coffee.*

**2:20** August C.M. Van Westen\*, Utrecht University; Ellen Mangnus, Dr., Utrecht University, *Foreign Agribusiness Investment and Local Development in Sub-Sahara Africa: Inclusive business models and local livelihoods.*

**2414. The Academic Job Market for Geographers: Strategies for Improving Employment Preparation (Sponsored by AAG Careers and Professional Development Theme)**

Room: Room 203, Hynes, Second Level (Panel Session)

ORGANIZER(S): Mark Revell, American Association of Geographers



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CHAIR(S): Mark Revell, American Association of Geographers  
 Discussant(s): Paul N. McDaniel, Kennesaw State University;  
 Jase Bernhardt, Penn State University  
 Panelists: Casey D. Allen, University of Colorado Denver;  
 Jonathan Wessell, Grand Valley State University;  
 Trushna Parekh, Texas Southern University; Saskia L.  
 Van De Gevel, Appalachian State University; Matthew  
 H. Connolly, University of Central Arkansas

## 2415. Employer Interviews (Sponsored by AAG Careers and Professional Development Theme)

Room: Room 204, Hynes, Second Level (Panel Session)  
 ORGANIZER(S): Mark Revell, American Association of  
 Geographers; Drew Lehman, Drew Lehman  
 Environment and Education

CHAIR(S): Mark Revell, American Association of Geographers

## 2416. GISCI - An Exploration of Professionalism Early in a Career or Profession (Sponsored by AAG Careers and Professional Development Theme)

Room: Room 205, Hynes, Second Level (Panel Session)

ORGANIZER(S): Bill Hodge, GISCI

CHAIR(S): Bill Hodge, GISCI

Discussant(s): Bill Hodge, GISCI

## 2417. Participatory Research in Geography 3: Expectations, Expertise, and Engagement (Sponsored by AAG Mapathon)

Room: Room 206, Hynes, Second Level (Panel Session)

ORGANIZER(S): Jerry Shannon, University of Georgia;  
 Katherine B. Hankins, Georgia State University; Andy  
 Walter, University of West Georgia

CHAIR(S): Jerry Shannon, University of Georgia

Discussant(s): Renee Sieber, McGill University

Panelists: Katherine B. Hankins, Georgia State University;  
 Richard Milligan, Georgia State University; Tracey  
 Osborne, University of Arizona; Jonnell A. Robinson,  
 Syracuse University

## 2420. Human Geography Poster Session I

Posters for this session can be found on pages 178-182.

Room: Hall C, Hynes, Second Floor (Poster Session)

\*\*\* Continued into next slot, 2520

## 2421. Robotic Futures 3: Urban Life & Technological Sovereignities (Sponsored by Urban Geography Specialty Group)

Room: Room 301, Hynes, Third Level (Paper Session)

ORGANIZER(S): Lily A. House-Peters, California State  
 University, Long Beach; Casey R. Lynch, University  
 of Arizona - Geography & Development; Hannes  
 Gerhardt, University of West Georgia

CHAIR(S): Casey R. Lynch, University of Arizona - Geography  
 & Development

1:20 Andres Luque-Ayala, Dr.\*, Durham University, UK;  
 Flavia Neves Maia, Universidade Federal do Rio de  
 Janeiro, *Digital Territories: Crowdsourced Mapping as  
 Political Technique*.

1:40 Rachel Macrorie\*, Urban Institute, University of Sheffield;  
 SIMON MARVIN\*, University of Sheffield; Aidan H  
 While, Dr., Urban Institute, University of Sheffield,  
*Robotics and Autonomous Urbanism: A critical  
 research agenda*.

2:00 Hannes Gerhardt\*, University of West Georgia, *Future  
 technologies and the end of state-capitalism as we  
 know it*.

2:20 Phillip Galinsky, Founder & Chief Architect\*, Moral  
 Systems PBC, *Network-State: Dialectic Transcendence  
 of Historical Systems of Power Relations*.

Discussant(s): Luke Richard Barnesmoore, University of British  
 Columbia

## 2422. People-Centred Food Policy 2: Food Production and Consumption (Sponsored by Geographies of Food and Agriculture Specialty Group)

Room: Room 302, Hynes, Third Level (Paper Session)

ORGANIZER(S): Michael Chrobok, University of Toronto; Luke  
 Craven, University of Sydney

CHAIR(S): Luke Craven, University of Sydney

1:20 Daniel Warshawsky\*, Wright State University, *Individual  
 Consumers and the Limits of Current Perspectives on  
 Food Waste: Case Study of University Students in Los  
 Angeles*.

1:40 Sharon E Noonan-Gunning\*, *Nutrition Justice: Policy,  
 Parents and Child Fatness*'.

2:00 Michael Chrobok\*, University of Toronto, *Managing  
 Risk through Hot Dogs? Sidewalk Vending and the  
 Persistence of Street Meat in Contemporary Toronto*.

Discussant(s): Isabel Urrutia, University of Toronto

## 2423. Design and Development of an International Geography Assessment

Room: Room 303, Hynes, Third Level (Panel Session)

ORGANIZER(S): Michael N. Solem, American Association of  
 Geographers

CHAIR(S): Michael N. Solem, American Association of  
 Geographers

Introducer: Michael N. Solem

Panelists: Theresa Bourke, Queensland University of Technology;  
 Chew-Hung Chang, Nanyang Technological  
 University; Joseph P. Stoltman, Western Michigan  
 University; Okkyong Yoon, Cheongju National  
 University of Education

## 2424. Tourism Geographies: Systems, Space and Sustainability (Sponsored by Recreation, Tourism, and Sport Specialty Group)

Room: Room 304, Hynes, Third Level (Paper Session)

ORGANIZER(S): Patrick Brouder, Brock University

CHAIR(S): Ben Iaquinto, University of Melbourne

1:20 Jurak Kim, Ph.D student\*, Seoul National University;  
 Suh-hee Choi, Invited Assistant Professor, Tourism  
 College, Institute for Tourism Studies, Macao,  
*Students' Perception and Experience of International  
 Educational Tourism: Two Cases in Asia*.

1:40 Wayne Su\*, Department of Geography, National Taiwan  
 University; Tzu-How Chu, PhD, Department of  
 Geography, National Taiwan University, *Changes and  
 Delay in Tourism: The Impacts of Weather on Tourist  
 Behavior*.

2:00 Hui Wang\*, Honggang Xu, *Exploring Tourism Female  
 Workers' Power: A Perspective of Space*.

2:20 Tatjana Thimm\*, HTWG Konstanz, *E-Mobility turn at Lake  
 Constance, Germany - a scenario*.

2:40 Ben Iaquinto\*, University of Melbourne, *Beyond the  
 Household: performing sustainability on holiday*.

## 2425. Special Sessions on: Geographic Data Science I

Room: Room 305, Hynes, Third Level (Paper Session)

ORGANIZER(S): Alex Singleton; Seth E. Spielman, University  
 of Colorado; Daniel Arribas-Bel

CHAIR(S): Seth E. Spielman, University of Colorado

1:20 Jonathan Reades, King's College London; Sergio Rey,  
 Arizona State University, *GeoPyTeR: Geographical  
 Python Teaching Resources*.

1:40 Philip Samuel Chodrow\*, MIT Human Mobility and  
 Networks Laboratory; Marta C. González, Professor,  
 MIT Department of Civil and Environmental  
 Engineering, *Information Theory for Spatial  
 Compositional Data*.

2:00 Carson J. Q. Farmer\*, University of Colorado, *Sketching a  
 Path Towards Scalable Geographic Data Science*.

2:20 Xun Li\*, Center for Spatial Data Science, University of  
 Chicago; Luc Anselin, Center for Spatial Data Science,

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University of Chicago; Julia Koschinsky, Center for Spatial Data Science, University of Chicago, *Missing values in a dynamic exploratory spatial data analysis (ESDA) software environment*.

Discussant(s): Seth E. Spielman, University of Colorado

## 2426. Annual Geoforum Lecture: After the Land Grab: Infrastructural Violence in Indonesia's Oil Palm Plantation Zone (Sponsored by Elsevier)

**Room:** Room 306, Hynes, Third Level (Panel Session)  
 ORGANIZER(S): Padraig Carmody, University of Johannesburg  
 CHAIR(S): Padraig Carmody, University of Johannesburg  
 Discussant(s): Tom Perreault, Syracuse University; Jonathan Rigg, National University Of Singapore; Annelies Zoomers, Utrecht University  
 Panelists: Tania Li, University of Toronto; Padraig Carmody, University of Johannesburg

## 2427. The Arctic: then and now - Session 2 dedicated to H. Jesse Walker (1921 -2015) (Sponsored by Cryosphere Specialty Group, Polar Geography Specialty Group)

**Room:** Room 307, Hynes, Third Level (Paper Session)  
 ORGANIZER(S): Molly McGraw, Southeastern Louisiana University; Jerry Brown; Frederick E. Nelson, Michigan State University  
 CHAIR(S): Molly McGraw, Southeastern Louisiana University  
 1:20 Clayton W. Queen\*, Michigan State University; Kelsey E. Nyland, Michigan State University; Frederick E. Nelson, Northern Michigan University; Anna E. Klene, University of Montana; Nikolay I. Shiklomanov, The George Washington University; Dimitry A. Streletskiy, The George Washington University, *Estimating Active Layer Thickness in the Kuparuk River Basin: Improvements and Comparisons*.  
 1:40 Dan D. Hughes, B.Sc\*, Brock University; Kevin W Turner, PhD, Brock University, *Detecting spatial patterns in hydrology and carbon export across a lake-rich thermokarst landscape (Old Crow Flats, Yukon, Canada)*.  
 2:00 Asa Rennermalm\*, Rutgers, The State University of New Jersey; Marco Tedesco, Lamont Doherty Earth Observatory, Columbia University; Thomas Mote, University of Georgia; Patricia Yaeger, University of Georgia; Bent Hasholt, University of Copenhagen; Dirk van As, Denmark and Greenland Geological Survey (GEUS), *Greenland ice sheet meltwater export to surrounding oceans*.  
 2:20 Nathanael Amador\*, Ohio Wesleyan University, *Contribution of Piteraq Winds to Enhanced Melt in the Ilulissat Region of West Greenland*.  
 2:40 Donald Lawrence Forbes\*, Geological Survey of Canada (emeritus), *Babbage, Blow, and Mackenzie: contrasting styles of deltaic sedimentation on the western Canadian Arctic coast*.

## 2428. J. W. Nystrom Award Competition

**Room:** Room 308, Hynes, Third Level (Paper Session)  
 ORGANIZER(S): Program Committee  
 CHAIR(S): William G. Moseley, Macalester College  
 1:20 Paul Holloway\*, University of York, *Incorporating movement-related resource dynamics in species distribution models*.  
 1:40 Molly H. Polk, Ph.D.\*, University of Texas at Austin, *Practicing Critical Physical Geography in the Tropical Andes*.  
 2:00 Jamie E Shinn\*, West Virginia University, *Governing Environmental Variability: Insights on adaptive management from the Okavango Delta, Botswana*.  
 2:20 Case Watkins\*, James Madison University, *Complex landscapes in the African diaspora: Five centuries of palm oil development on Bahia's Dendê Coast*.  
 Discussant(s): Jacob Bendix, Syracuse University; William G. Moseley, Macalester College

## 2429. 2017 Student Illustrated Paper Competition (Sponsored by Geographic Information Science and Systems Specialty Group, Remote Sensing Specialty Group)

**Room:** Room 309, Hynes, Third Level (Illustrated Paper Session)  
 ORGANIZER(S): Wenjie Ji, University At Buffalo  
 CHAIR(S): Wenjie Ji, University At Buffalo  
 1:20 Kaixi Zhang\*, *Map comparison methods to measure spatial configuration*.  
 1:27 Huixuan Li\*, University of South Carolina; Cuizhen Wang, University of South Carolina Columbia, *Spatial assessment of Water Quality with urbanization in 2007-2015, Shanghai, China*.  
 1:34 Min Xu\*, Department of Geography, University of Cincinnati; Hongxing Liu, Department of Geography, University of Cincinnati; Richard Beck, Department of Geography, University of Cincinnati; Larry Liou, NASA Glenn Research Center; John Lekki, NASA Glenn Research Center, *Geographically adaptive inversion models for Retrieving Chlorophyll-a in optically complex Inland waters from Hyperspectral Imagery*.  
 1:41 David O'Brien\*, Clark University, *GIS Validation for projects to Reduce Emissions due to Deforestation and Forest Degradation (REDD)*.  
 1:48 Molly Elizabeth Smith, Department of Geosciences\*, Florida Atlantic University, 777 Glades Road, Boca Raton, FL 33431; Donna Selch, PhD, Sustainability Studies, School of Marine and Atmospheric Sciences, Stony Brook University, Stony Brook, NY 11794; Anton Oleinik, Associate Professor, Department of Geosciences, Florida Atlantic University, 777 Glades Road, Boca Raton, FL 33431; Caiyun Zhang, Associate Professor, Department of Geosciences, Florida Atlantic University, 777 Glades Road, Boca Raton, FL 33431, *Sand Analysis Using a Combined Spectroscopic and Microscopic Technique*.  
 1:55 Yang Liu\*, University of Cincinnati; Kai Liu, Sun Yat-Sen University; Hongxing Liu, University of Cincinnati, *A multi-channel controlled image fusion method for sharpening WorldView-2 multispectral image using UAV natural color image*.  
 2:02 Jessica McDermott, B.A. \*, Clark University, *Comparison of One versus Two Time Points for Calibration of Land Change Suitability Maps*.  
 2:09 Wenle Jiang\*, *Revision of the land use dynamic degree*.  
 2:16 Youtao Lin\*, *Influence of spatial extent on Intensity Analysis concerning land change*.  
 2:23 Qiuyan Yu\*, University of South Florida; Ruiliang Pu, University of South Florida; Landry Shawn, University of South Florida; Michael Acheampong, University of South Florida, *Understanding association between land surface temperature variation, and tree biophysical and biochemical properties for urban heat island studies/assessment using LiDAR and Landsat TM*.  
 2:30 Yinan He\*, University of North Carolina at Charlotte; Gang Chen, University of North Carolina at Charlotte, *A weighted spectral signature approach to map burn severity in a disease-impacted forest landscape using high-spatial and high-spectral remotely sensed imagery*.  
 2:37 Diane E. BenBella\*, University of Connecticut; Guangxing Wang, PhD, Southern Illinois University, Carbondale; Debarchana Ghosh, PhD, University of Connecticut, *How Would Kampala, Uganda's Land Use Land Cover Change by 2025?*.  
 2:44 Haijian Liu\*, University of Wisconsin-Milwaukee, *Tree species mapping from ALSA hyperspectral imagery using a new approach*.

## 2430. Practicing Citizenship III: Ambivalent Positionings (Sponsored by Political Geography Specialty Group)

**Room:** Room 310, Hynes, Third Level (Paper Session)

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ORGANIZER(S): Lynn Staeheli; David Jones Marshall, Durham University

CHAIR(S): Lynn Staeheli

**1:20** Dima Smaira, Dr\*, University of Durham, *The Space in Between: navigating pedagogy, practice, and the boundaries of citizenship in Lebanon..*

**1:40** Richard Yarwood\*, Plymouth University; Naomi Tyrrell, Senior Research Fellow, Plymouth University, UK; Claire Kelly, Research Fellow, Plymouth University, UK, *War Babies Or Heroic Citizens: Conformity, Military Families and the Soldier Citizen.*

**2:00** Thomas Swerts, University of Antwerp; Stijn Oosterlynck\*, University of Antwerp; Anika Depraetere, University of Antwerp, *Practicing citizenship: undocumented migrants on a quest for recognition as equal human beings in Brussels.*

**2:20** Kathleen M. Coll, PhD\*, U. of San Francisco; Ron Hayduk, PhD, San Francisco State University, *Immigrant Voting: "Future Citizens" and Citizenship Practice.*

Discussant(s): David Jones Marshall, Durham University

**2431. 2017 AAG Physical Geography Symposium Session 4: Human Environmental Interactions: The Legacy of Karl Butzer in the Physical Geography and Beyond: Geoarchaeology and Environmental Archaeology around the World (Sponsored by Cultural and Political Ecology Specialty Group, Paleoenvironmental Change Specialty Group, Geographies of Bread and Water in the 21st Century Featured Theme, Geomorphology Specialty Group)**

*Room:* Room 311, Hynes, Third Level (Paper Session)

ORGANIZER(S): Timothy Beach, University of Texas at Austin; Carol P. Harden, University of Tennessee; Matthew Charles Peros, Bishop's University

CHAIR(S): Anne Chin, University of Colorado Denver

**1:20** Nicholas P. Dunning\*, University of Cincinnati; John G Jones, PhD, Archaeological Consultants, Ltd; David L Lentz, PhD, University of Cincinnati; Christopher Carr, PhD, University of Cincinnati; Jeffrey Y Brewer, University of Cincinnati, *Margin for Error: Ancient Maya Transformation of Bajo Edges.*

**1:40** Vance Holliday\*, University of Arizona, *Paleoindians, Paleo-lakes, and Paleo-playas: Landscape Geoarchaeology of the Tularosa Basin, New Mexico.*

**2:00** Rolfe Mandel\*, University of Kansas, *Geoarchaeology of Ais Yirkis, An Upland Early-Holocene Site (Aceramic Neolithic) in Southwestern Cyprus: Evidence for Human-Environment Interactions.*

**2:20** Charles Frederick\*, *Exploring Patterns of Human Use and Sedimentation in the Rockshelters of Eagle Nest Canyon, Lower Pecos Region of Southwest Texas..*

Introducer: Matthew Charles Peros

**2432. Values in environmental research: beyond a scientized politics and politicized science**

*Room:* Room 312, Hynes, Third Level (Panel Session)

ORGANIZER(S): Noel Castree, University of Manchester; Rebecca Lave, Indiana University

CHAIR(S): Noel Castree, University of Manchester

Introducer: Noel Castree

Panelists: Stuart Lane, Université de Lausanne; Susan L. Cutter, University of South Carolina; Francis J. Magilligan, Dartmouth College; Michael A. Urban, University of Missouri; Scott Frickel; Sara Wylie, Northeastern University

**2433. Climate Specialty Group Student Paper Competition - Session III (Sponsored by Climate Specialty Group)**

*Room:* Room 313, Hynes, Third Level (Paper Session)

ORGANIZER(S): Trent Ford, Southern Illinois University

CHAIR(S): Trent Ford, Southern Illinois University

**1:20** Kyle Mattingly\*, University of Georgia, *Atmospheric river impacts on the Greenland Ice Sheet.*

**1:40** Deanna Nash\*, California State University - Los Angeles, *Atmospheric River Contributions to Extra-Tropical Poleward Moisture Transports and Atmospheric Water Cycle.*

**2:00** Diany Li\*, Ohio Wesleyan University; Nathan Amador, Ohio Wesleyan University, *The Relationship Between The Arctic Oscillation And A Cold Weather Outbreak In Southern East China.*

**2:20** Daniel Josef Gessman\*, University of South Florida, *Forecasting Pollen Concentrations in Sarasota, Florida.*

**2:40** Jothiganesh Shanmugasundaram\*, West Virginia University; Eungul Lee, West Virginia University; Govindarajulu Srinivasan, Regional Integrated Multi-Hazard Early Warning System, *North East Indian Monsoon rainfall dynamics over the Southeastern India.*

**2438. Political Geography Plenary: Alex de Waal speaks on famine and mass atrocity (Sponsored by Political Geography Specialty Group)**

*Room:* Independence East, Sheraton, Second Floor (Panel Session)

ORGANIZER(S): Halvard Buhaug, PRIO

CHAIR(S): Halvard Buhaug, PRIO

Discussant(s): James A. Tyner, Kent State University; Simon Springer, University of Victoria; Charles Fogelman, University of Illinois

Panelists: Alex De Waal, World Peace Foundation

**2439. Uncertainty and Spatial Sampling (Sponsored by Spatial Analysis and Modeling Specialty Group, Association of American Geographers, Uncertainty and Context in Geography and GIScience Featured Theme)**

*Room:* Independence West, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Qing Luo; Daniel A. Griffith, U. of Texas at Dallas; Yongwan Chun, The University of Texas at Dallas

CHAIR(S): Daniel A. Griffith, U. of Texas at Dallas

**1:20** Bin Li\*, Central Michigan University, *Spatial regression for large data sets through regular tessellations.*

**1:40** Xiang Ye\*, University at Buffalo, *Assessing the behavior of ordinary kriging under different sample sizes: A case study of county-level unemployment data in the United States.*

**2:00** Sha Li\*, Hubei University of Education, University of Texas - Dallas; Daniel A. Griffith, University of Texas - Dallas; Yongwan Chun, University of Texas - Dallas; Hong Shu, Wuhan University, *Spatio-temporal interpolation of monthly temperatures for three provinces of northeast China.*

**2:20** Qing Luo\*, Wuhan University; Huayi Wu, Wuhan University; Zhipeng Gui, Wuhan University, *Geo-Commerce Data Analysis of Wuhan: Using Line-Intercept Sampling Method.*

**2:40** Monghyeon Lee\*, University of Texas at Dallas; Yongwan Chun, University of Texas at Dallas; Daniel A Griffith, University of Texas at Dallas, *An Evaluation of Kernel Smoothing to Protect Confidentiality of Patient Locations.*

**2440. Uncertainty in remote sensing and elevation modelling (Sponsored by Uncertainty and Context in Geography and GIScience Featured Theme)**

*Room:* Liberty B, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Uncertainty and Context Theme

CHAIR(S): Maggi Kelly, University of California

**1:20** Devin A White, PhD\*, Oak Ridge National Laboratory; Andrew J Hardin, Oak Ridge National Laboratory, *How Photogrammetrists Are Handling Uncertainty in the Age of Unmanned Aerial Systems and Smallsats.*

**1:40** Dave Kelbe\*, Oak Ridge National Laboratory; David Page, Oak Ridge National Laboratory; Andrew Hardin, Oak



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Ridge National Laboratory; Devin White, Oak Ridge National Laboratory, *Concepts and consequences of error and uncertainty propagation through a surface reconstruction pipeline for stereo satellite imagery.*

- 2:00** Corrine Coakley\*, Kent State Geography Dept.; Courtney Smith, Kent State University Geology Dept.; Anne Jefferson, Dr., Kent State University Geology Dept., *Evaluation of GIS-Based Terrace Identification Methods for Modeling the Ancient Cuyahoga River Valley.*

- 2:20** Christopher Amante\*, National Oceanic and Atmospheric Administration, University of Colorado Boulder; Mike Sutherland, National Oceanic and Atmospheric Administration, University of Colorado Boulder; Sharon Mesick, National Oceanic and Atmospheric Administration, *Integrated Bathymetric-Topographic Digital Elevation Model (DEM) Uncertainty.*

- 2:40** Maggi Kelly\*, University of California; Stefania Di Tommaso, UC Berkeley; Yanjun Su, UC Merced; Qinghua Guo, UC Merced, *How Does Uncertainty in Lidar Derived Forest Structure Metrics Impact Simulated Wildfire Behavior: An Analysis of Error Propagation in Fire Behavior and Effects Modeling.*

**2441. Retail Geography (Sponsored by Business Geography Specialty Group)**

*Room:* Liberty C, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Tony Hernandez, Ryerson Polytechnic University; Murray Rice, University of North Texas

- CHAIR(S): Tony Hernandez, Ryerson Polytechnic University  
**1:20** Yonah Freemark\*, MIT, *Expanding Access to Retail for Low-Income Households: Obstacles to Mixed-Use Affordable Housing.*

- 1:35** Stephen J. Swales\*, Ryerson University; K. Wayne Forsythe, Ryerson University, *A Local Spatial Market for Upscale Retail in Canada?*

- 1:50** Janet H. Gritzner\*, South Dakota State University, *Patterns of Change on Main Street.*

- 2:05** Mark De Socio\*, Salisbury University; Adam John Parrillo\*, Clark State Community College; Kena Garner\*, Salisbury University, *Geography of Martial Arts Dojos in the Washington-Baltimore Metropolitan Area.*

- 2:20** Brian King\*, University of North Texas; Murray D Rice, Associate Professor, University of North Texas, *Investigating Wal-Mart Discount Store Closures in Dallas-Fort Worth, Texas.*

- 2:35** Carla Alejandra Gonzalez Ortega\*, Universidad Nacional Autonoma De Mexico, *Geographical reconfiguration of retailing in Coatzacoalcas, Veracruz, Mexico.*

**2442. Economic Geography VIII - The History of Creativity and Innovation and the Role of Agglomeration and Urbanization Economies (Sponsored by Economic Geography Specialty Group)**

*Room:* Back Bay Ballroom A, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Dieter Franz Kogler, University College Dublin; Peter Kedron, Oklahoma State University; Thomas Kemeny, University of Southampton

CHAIR(S): Peter Kedron, Oklahoma State University

- 1:20** Pierre-Alexandre Balland\*, Utrecht University; David Rigby, University of California, Los Angeles; Sergio Petralia, Utrecht University; Mathieu Steijn, Utrecht University, *The Geography of Innovation in the United States: 1790 - 2010.*

- 1:40** Cristian I. Jara-Figueroa\*, MIT Media Lab; Cesar Hidalgo, MIT Media Lab, *Creative cities between 1400 and 1950.*

- 2:00** Christopher R. Esposito\*, University of California, Los Angeles (UCLA), *The Regional Diversification Curve.*

- 2:20** Joakim Wernberg\*, Lund University, *Intracity Scaling Analysis and Micro-agglomerations.*

- 2:40** Andres Gomez-Lievano, Ph.D. in Applied Mathematics\*, Center for International Development, Harvard University; Vladislav Vysotsky, Ph.D. in Probability Theory, Department of Mathematics, Imperial College London, London; Jose Lobo, Ph.D. in Regional Science, School of Sustainability, Arizona State University, *Increasing Returns to Scale Without Sorting or Agglomeration Economies.*

**2444. Who's Afraid of Racial Geographies? Variations on Anti-racist Critique**

*Room:* Constitution A, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Nik Heynen, University of Georgia; Sharad Chari, University of the Witwatersrand; Ananya Roy, University of California, Los Angeles

CHAIR(S): Rashad Shabazz, Arizona State University

Introducer: Rashad Shabazz

- 1:21** Ruth Wilson Gilmore\*, CUNY Graduate Center, *Seeing: the Problem. Or -- Racial Capitalism and the Performance Effect.*

- 1:41** Ananya Roy\*, University of California, Los Angeles, *The Whiteness of Theory.*

- 2:01** Sharad Chari\*, University of the Witwatersrand, *Earth Writing Blues: A Manifesto for Spaciousness.*

- 2:20** Nik Heynen\*, University of Georgia, *Understanding the Racialization of Enclosure and the Abolitionist Commons.*

Discussant(s): Rashad Shabazz, Arizona State University

**2445. Nature and the News Media: Media and Communication Geography Session II (Sponsored by Communication Geography Specialty Group)**

*Room:* Constitution B, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Emily Fekete, Oklahoma State University

CHAIR(S): Darren Purcell, University of Oklahoma

- 1:20** Christina Greene, University of Arizona - Geography & Development; Sneha Balakrishnan\*, University of Arizona - Geography & Development, *Adding the "mega" to drought: emerging narratives of megadrought in the news.*

- 1:40** Kendal Clark\*, University of Guelph; Jennfier J. Silver, University of Guelph; Roberta Hawkins, University of Guelph, *The (Re)production of Nature on Natural Resource Based Reality Television.*

- 2:00** Linnea C. Sando\*, Montana State University, *Sheep in the News: Local Journalism and Place Identity in Western American Communities.*

- 2:20** Patrick McCurdy\*, University of Ottawa, *Mediatool - Visualizing competing representations of Alberta's oil/tar sands.*

- 2:40** Darren Purcell\*, University of Oklahoma; Nick Heller, University of Oklahoma, *Newspaper Framing of Drought in the Southwest US, 2010-2014..*

**2448. Sacrifice Zones 1: Evolution, Development, & Current Application (Sponsored by Political Geography Specialty Group, Cultural and Political Ecology Specialty Group, Energy and Environment Specialty Group)**

*Room:* Beacon D, Sheraton, Third Floor (Panel Session)

ORGANIZER(S): Alec Brownlow, DePaul University; Siri Veland, Brown University

CHAIR(S): Alec Brownlow, DePaul University

Panelists: Siri Veland, Brown University; Douglas L. Johnson, Clark University; Valerie Kuletz; Rebecca Scott, University of Missouri - Columbia; Shelby Doyle, Iowa State University

**2449. The global politics and economics of climate services I (Sponsored by Cultural and Political Ecology Specialty Group, Human Dimensions of Global Change Specialty Group)**

*Room:* Beacon E, Sheraton, Third Floor (Paper Session)



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ORGANIZER(S): Christina Greene; Andrea K. Gerlak,  
University of Arizona; Gigi Owen, University of  
Arizona

CHAIR(S): Sophie Webber, UCLA

**1:20** Andrea K. Gerlak\*, University of Arizona; Christina  
Greene\*, University of Arizona, *Interrogating the  
Global Framework for Climate Services.*

**1:40** Chris Knudson\*, University of Arizona, *Servicing  
Finance: The Role of the (Re)insurance Industry in the  
Production of Climate Services.*

**2:00** Svenja Keele\*, University of Melbourne, *Governing  
adaptation with the knowledge economy: consultants  
and the making of advisory markets.*

**2:20** Asa Cecilia Gerger Swartling\*, Stockholm Environment  
Institute; Sukaina Bharwani, Stockholm Environment  
Institute; Gregor Vulturius, Stockholm Environment  
Institute; Monica Coll Besa, Stockholm Environment  
Institute, *Towards a participatory framework for  
climate services.*

**2:40** Edward R. Carr\*, Clark University, *How Climate Services  
Work: Reframing the Users and Uses of Weather and  
Climate Information.*

**2450. Health, Poverty, and Place in Ghana II (Sponsored by  
Population Specialty Group, Africa Specialty Group, Health  
and Medical Geography Specialty Group)**

Room: *Beacon F, Sheraton, Third Floor (Paper Session)*

ORGANIZER(S): Justin Stoler, University of Miami; John R.  
Weeks, San Diego State University

CHAIR(S): John R. Weeks, San Diego State University

**1:20** Sory Ibrahim Toure\*, San Diego State University; John  
Weeks, Distinguished Professor, San Diego State  
University; Douglas Stow, Distinguished Professor,  
San Diego State University, *Evaluating connections  
between urban land cover and land use change and  
changes in child mortality.*

**1:40** Agyapong Fosu Amankwah\*, University of Cape Coast,  
*Utilization of Maternal Health Care Services in the  
Eastern Region of Ghana: The Evidence.*

**2:00** Braimah Asumah Joseph\*, University of Western Ontario;  
Kilian Nasung Atuoye, Western University; Isaac  
Luginaah, Dr., Western University, *Women's autonomy  
in deciding to utilise obstetric services in Ghana.*

**2:20** Andrea Rishworth, PhD Student\*, University of  
Waterloo; Jenna Dixon, PhD, University of Waterloo,  
*Reproducing Inequalities: Examining the Intersection  
of Environment and Global Maternal and Child  
Health.*

**2:40** John R. Weeks, Ph.D.\*, San Diego State University, *Child  
Mortality Along the Urban Gradient in Ghana.*

**2453. Urban forms in the Global South I: The state, the city and  
the production of social difference (Sponsored by Urban  
Geography Specialty Group, Cultural Geography Specialty  
Group, Development Geographies Specialty Group)**

Room: *Dalton A, Sheraton, Third Floor (Paper Session)*

ORGANIZER(S): Caitlin Ryan, University of Colorado At  
Boulder; Yang Yang, University of Colorado At  
Boulder

CHAIR(S): Caitlin Ryan, University of Colorado At Boulder

**1:20** Adam Saltzman, Ph.D.\*, Worcester State University,  
*Politics of Difference, Politics of Possibility: Spatial  
Practices of B/ordering Burmese Migrants in Thailand  
as Sites for Emergent Political Subjectivities.*

**1:40** Laura Vaz-Jones\*, University of Toronto, *The urban land  
question and the politics of difference on Cape Town's  
peripheries.*

**2:00** Caitlin M. Ryan\*, University of Colorado at Boulder,  
*Constructing knowledge of a divided city: mobile  
ethnographies and official histories of Osh, Kyrgyzstan.*

**2:20** Anu Sabhlok\*, Indian Institute of Science Education and  
Research, *Constructing the nation, modernity and*

*gender: a feminist reading of Chandigarh.*

Discussant(s): Sarah Moser, Center for Urban and Global Studies,  
Trinity College

**2455. Food sharing: contemporary cultures, practices and  
economies III (Sponsored by Geographies of Food and  
Agriculture Specialty Group, Economic Geography Specialty  
Group)**

Room: *Hampton A, Sheraton, Third Floor (Paper Session)*

ORGANIZER(S): Oona Morrow, Trinity College Dublin; Anna  
Davies, Trinity College Dublin

CHAIR(S): Oona Morrow, Trinity College Dublin

**1:20** AGATHE FAUTRAS\*, PARIS IV SORBONNE - ENeC /  
IFEA, *Food sharing network in Istanbul.*

**1:40** Samantha Outhwaite\*, University of Manchester -  
Manchester, *'Real' Bread: The Biopolitics of Sharing  
Socio-Material Knowledge-Practices in an 'Alternative'  
Food Network.*

**2:00** Aida Baghernejad\*, King's College London, *Eating  
Together, Competing with Each Other: Food Sharing  
on Street Food Markets in Berlin and London.*

**2:20** Ethan Tremblay\*, University of Maine, *Splitting Together:  
The Evolution of Cooperation in Food Buying Clubs.*

**2456. Society of Woman Geographers: Explorers, Researchers,  
Women Who Know No Boundaries (Sponsored by  
Geographic Perspectives on Women Specialty Group)**

Room: *Hampton B, Sheraton, Third Floor (Panel Session)*

ORGANIZER(S): Ellen R. Hansen, Emporia State University

CHAIR(S): Ellen R. Hansen, Emporia State University

Panelists: Ellen R. Hansen, Emporia State University; Sandra  
L. Nichols; Dorothy Drummond, Indiana State  
University; Cynthia Pope, Central Connecticut State  
University; Janice Monk, University of Arizona

**2457. Contemporary Issues in Ethnic Geography (Sponsored by  
Cultural Geography Specialty Group, Ethnic Geography  
Specialty Group)**

Room: *Gardner A, Sheraton, Third Floor (Paper Session)*

ORGANIZER(S): Lawrence E. Estaville, Texas State University

CHAIR(S): Mark A. Deka, Texas State University - San Marcos

**1:20** Mark A. Deka\*, Texas State University - San Marcos,  
*Farmworker Health in Michigan: An Examination of  
Selected Diseases.*

**1:40** Kanika Verma\*, *Ethnic Group Variances in Geospatial  
Thinking Domains of Undergraduates in the United  
States: Geospatial Pattern, Profile, Association, and  
Transition.*

**2:00** Russell J Aldave\*, Binghamton University, *The Latinization  
of Middletown, New York: The role of institutions in  
Latino experiences.*

**2:20** Edris J. Montalvo\*, Cameron University; Lawrence E.  
Estaville, Texas State University, *Latino Healthcare in  
the Texas Panhandle: A Mixed Method Study.*

**2:40** Lawrence E. Estaville\*, Texas State University; Edris J.  
Montalvo, Cameron University, *Latino Religion in the  
Texas Panhandle.*

**2458. Reconstructing Urban Natures Session 3: Making Green  
Urbanism/Doing Urban Ecology**

Room: *Gardner B, Sheraton, Third Floor (Paper Session)*

ORGANIZER(S): Damian Finbar White, RISD; Rachel Will,  
University of Georgia

**1:20** Jessica Fisch\*, Georgia Institute of Technology, *Green  
Infrastructure and the Sustainability Concept: A Case  
Study of the Greater New Orleans Urban Water Plan.*

**1:40** Patrick T. Hurley, Ph.D.\*, Ursinus College; Marla R.  
Emery, Ph.D., U.S. Forest Service, Northern Research  
Station, *Supporting Persistent Ruralities, Fostering  
Emergent Urbanities? A (Rural) Political Ecology of  
Foraging in Urban Greenspaces.*

**2:00** Rachel G Will, MA\*, University of Georgia, *Examining*

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*technocratic subjectivities on the Atlanta BeltLine: Possibilities for new engagement.*

**2:20** Diego Leskovar\*, Drew University, *Integral Ecology and the City: Envisioning New Possibilities.*

Discussant(s): Maria Antonieta Castro-Cosio, MDRC

**2459. The Urban Politics of Policy Failure III: Temporality and (im) mobility (Sponsored by Political Geography Specialty Group, Urban Geography Specialty Group)**

*Room:* Fairfax A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): John Lauermaun, Texas A&M University; Cristina Temenos, University of Manchester - Manchester

CHAIR(S): John Lauermaun, Texas A&M University

**1:20** Aaron Malone\*, University of Colorado, Boulder, *Residential security taxing districts in New Orleans: An immobile BID spinoff.*

**1:40** Niamh M. Moore-Cherry\*, University College, Dublin; Christine Bonnin, University College Dublin, *Playing for time in the neoliberal city: The temporal politics of redevelopment in Moore Street, Dublin.*

**2:00** Astrid Wood\*, Newcastle University, *Evaluating BRT: A Temporal and Subjective Perspective on Policymaking.*

**2:20** Rachel Bok, University of British Columbia, *The geopolitical temporalities of 'failure': new-build cities and the complexities of transnational policy mobilization.*

Discussant(s): Colin Mcfarlane, Durham University

**2460. Proposal-Writing Strategies for the NSF Geography and Spatial Sciences Program-I (Sponsored by AAG Careers and Professional Development Theme)**

*Room:* Fairfax B, Sheraton, Third Floor (Panel Session)

ORGANIZER(S): Antoinette WinklerPrins, National Science Foundation

CHAIR(S): Thomas J. Baerwald, National Science Foundation

Introducer: Sunil Narumalani  
Discussant(s): Antoinette WinklerPrins, National Science Foundation; Thomas J. Baerwald, National Science Foundation; Holly M. Hapke, National Science Foundation

**2461. The global fisheries crisis: degradation, enclosures, and frontiers of accumulation (Sponsored by Cultural and Political Ecology Specialty Group, Animal Geography Specialty Group)**

*Room:* Jefferson, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Alejandro Camargo, Université de Montréal

CHAIR(S): Alejandro Camargo, Université de Montréal

**1:20** Marc-Andrej Felix Mallin\*, King's College London; Mads Barbesgaard, Lund University, *Jump-starting the Blue Economy: Understanding the Logic behind Capital's new Spatial Fix.*

**1:40** Kristian Saguin\*, University of the Philippines, *Aquaculture, Capture Fisheries and the Capitalist World-Ecology.*

**2:00** Mez Baker-Medard\*, Middlebury College, *Tracing the traceless: fish and the formalization marine property in Madagascar.*

**2:20** David Tecklin\*, Universidad Austral de Chile, *Growing marine spaces, emerging governance crises: the rise and decline of marine property rights for salmon aquaculture in Chile.*

Discussant(s): Chris Sneddon, Dartmouth College

**2462. Methods and Approaches for Representing the Political Dimensions of Urban Resilience I (Sponsored by Cultural and Political Ecology Specialty Group, Human Dimensions of Global Change Specialty Group)**

*Room:* Kent, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): David Manuel-Navarrete, Arizona State University; Hallie Eakin, Arizona State University;

Amy M. Lerner, Universidad Nacional Autónoma de Mexico

CHAIR(S): Amy M. Lerner, Universidad Nacional Autónoma de Mexico

**1:20** Hallie Eakin\*, Arizona State University; Luis A Bojorquez-Tapia, Universidad Nacional Autónoma de Mexico; Marco Janssen, Arizona State University; David Manuel-Navarrete, Arizona State University; Andres Baeza-Castro, Arizona State University; Amy M Lerner, Universidad Nacional Autónoma de Mexico, *Making "soft" socio-political infrastructure visible for enhancing urban risk management.*

**1:40** Erin Friedman\*, CUNY - Graduate Center; Rebekah Breitzer, CUNY-Graduate Center; William D. Solecki, CUNY-Hunter College, *Policy Transitions: The Nature and Role of Extreme Climate and Weather Events in Socio-Technical Regime Adjustments.*

**2:00** Joyce Coffee, LEED AP\*, Climate Resilience Consulting, *More of this, less of that: City needs for Federal Engagement in Resilience.*

**2:20** Rebekah A. Breitzer\*, CUNY - Graduate Center; Erin Friedman, CUNY Graduate Center; William Solecki, Hunter College, *Understanding and Defining the Role of Working Groups and Boundary Organizations within Urban Vulnerability Policy and Environmental Governance.*

Discussant(s): David Manuel-Navarrete, Arizona State University

**2463. Urban Geography Plenary: Resilience and the Just City (Sponsored by Urban Geography Specialty Group, Routledge)**

*Room:* Commonwealth, Sheraton, Third Floor (Panel Session)

ORGANIZER(S): Caroline Nagel, University of South Carolina; David Wilson, University Of Illinois

CHAIR(S): Caroline Nagel, University of South Carolina

Introducer: Caroline Nagel

Panelists: Susan Fainstein, Harvard University; Helga Leitner, University of California, Los Angeles; Anne Bonds, University of Wisconsin, Milwaukee

**2464. William Bunge (1928-2013) and Geography: III (Sponsored by History of Geography Specialty Group)**

*Room:* Boylston, Marriott, First Floor (Paper Session)

ORGANIZER(S): Luke R. Bergmann, University of Washington

CHAIR(S): Luke R. Bergmann, University of Washington

**1:20** Nuria Benach\*, Universitat de Barcelona, *That road not taken: Unsettled questions about Bill Bunge's legacy.*

**1:40** Gonzalo Lopez Garrido\*, Polytechnic University Of Madrid, *Mapping Social Injustice through Public Participation Geographic Information Systems (PPGIS) Radical Geography and the case of the Detroit Geographical Expedition and Institute (1968-1972).*

**2:00** Alan George Hallsworth, Professor, University of Portsmouth, *Bill Bunge: peace geographer.*

**2:20** Clark Akatiff\*, City of Palo Alto, *William Bunge His life, His work, and In his own words..*

Discussant(s): Richard L. Morrill, University Of Washington

**2465. Time Series Analysis of Satellite Images (III) (Sponsored by Remote Sensing Specialty Group)**

*Room:* Tremont, Marriott, First Floor (Paper Session)

ORGANIZER(S): Qihao Weng, Indiana State University

CHAIR(S): Jason Scott Barnetson, University of Queensland

**1:20** Rohit Mukherjee\*, The Ohio State University; Desheng Liu, Dr., The Ohio State University, *A spatio-temporal data fusion approach for blending MODIS and Sentinel-2 images.*

**1:40** Meshari S. Alenezi\*, University of Florida, *Monitoring the time series change of the vegetation growth of the Kuwait National Park( (SAANP) by using GIS and Remote Sensing.*

**2:00** Yunuen Reygadas Langarica\*, Texas State University - San

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Marcos, *Assessing the Correlation of EVI and LST Clusters in the Maya Biosphere Reserve, Guatemala.*

- 2:20** Mariela Soto-Berelov\*, RMIT; Andrew Haywood, EU REDD Facility, European Forest Institute; Simon D Jones, Mathematical and Geospatial Sciences, RMIT University; Trung Nguyen, Mathematical and Geospatial Sciences, RMIT University; Samuel Hislop, Mathematical and Geospatial Sciences, RMIT University; Salahuddin Ahmad, Victorian Forest Monitoring Program, Strategy, Capability and Innovation, Department of Environment, Land, Water and Planning, *Mapping large-area disturbance in public land forests using dense time series Landsat imagery.*
- 2:40** Jason Scott Barnettson, BSC, MSC\*, University of Queensland; Stuart Phinn, Prof., University of Queensland; Peter Scarth, Dr., University of Queensland; Robert Denham, Queensland Department of Science, Information Technology and Innovation, *Assessing Landsat fractional ground-cover time series across Australia's arid Rangelands: Separating grazing impacts from climate variability.*

**2466. Place-based urban activism in the midst of neoliberal governance regimes I. (Sponsored by Urban Geography Specialty Group, Ethics, Justice, and Human Rights Specialty Group)**

- Room:* Columbus 1, Marriott, First Floor (Paper Session)  
ORGANIZER(S): Zsuzsa Kovacs, Vrije Universiteit Amsterdam  
CHAIR(S): Mikel Agirre, UPVD (France) & UPV/EHU (Spain)
- 1:20** Ben Alan Gerlofs\*, Rutgers University, *Así No (Not Like This): Resisting Postpolitics on Mexico City's Avenida Chapultepec.*
- 1:40** Zsuzsa Kovacs\*, Vrije Universiteit Amsterdam, *Participation as policy making versus participation as part of everyday life. How active citizens give their own meaning to participation in the Indische neighbourhood in Amsterdam..*
- 2:00** Nino Antadze\*, Bucknell University, *Reconnecting with Place: Solidarity-driven Urban Activism in Market-Driven Urban Policy Context in Tbilisi, Georgia.*
- 2:20** Emily Ann Nicolosi\*, University of Utah, *Transition in Place: Dynamics, Possibilities, and Constraints.*
- 2:40** Mikel Agirre\*, UPVD (France) & UPV/EHU (Spain), *Collective Neighborhood Engagement against Speculative Urban Redevelopment Goals in the Shrinking City of Ferrol (Spain).*

**2467. Mega Event Planning: The Contested Spaces of the Olympics, World Cup and World's Fairs I**

- Room:* Columbus 2, Marriott, First Floor (Paper Session)  
ORGANIZER(S): Mark I. Wilson, Michigan State University; Eva Kassens-Noor, MSU; Christopher Gaffney, University of Zurich  
CHAIR(S): Mark I. Wilson, Michigan State University  
Introducer: Mark I. Wilson
- 1:25** Eva Kassens-Noor\*, Michigan State University; Josh Vertalka, Michigan State University; Mark Wilson, Michigan State University, *Olympic tweeters: using big data to track global perceptions about the Olympic Games.*
- 1:44** Balázs Forman\*, Corvinus University of Budapest; Forman Balázs György, Corvinus University of Budapest; Erika Sipos, Budapest Business School University of Applied Sciences, *International sport events in Budapest between 1900 and 2024.*
- 2:03** Christopher Gaffney\*, University of Zurich, *The Extraordinary Rendition of Circulations: grounding dispossession in the mega-event accumulation regime.*
- 2:22** Stefano Di Vita\*, Politecnico di Milano, *The Growing Disaffection to World Events. The Surrender of Rome to the 2024 Olympics within the Conflicts between*

*Extraordinary and Ordinary Policies and Plans.*

**2468. The Call of Place: More-Than-Human Dialogues and Relationships (Sponsored by Cultural Geography Specialty Group, Indigenous Peoples Specialty Group)**

- Room:* St. Botolph, Marriott, Second Floor (Paper Session)  
ORGANIZER(S): Soren Larsen, University of Missouri; Jay T. Johnson, University of Kansas  
CHAIR(S): Soren Larsen, University of Missouri
- 1:20** Naomi Simmonds\*, The University of Waikato, *Called home: enacting self-determination in and with place in Aotearoa, New Zealand.*
- 1:40** Jay T. Johnson\*, University of Kansas; Soren C Larsen, University of Missouri, *Heeding the call of the Wakarusa Wetlands: learning reciprocal guardianship through coexistence.*
- 2:00** Soren Larsen\*, University of Missouri; Jay T Johnson, University of Kansas, *A Tale of Two Invitations: Settler Desire and the Call of Place.*
- 2:20** Annette Watson\*, College of Charleston, *Changing Arctic Places and Peoples of the Upper Kobuk and Koyukuk Rivers, Alaska.*
- 2:40** Sarah Wright\*, University of Newcastle; Djawundil Maymuru, Macquarie University; Sandie Suchet-Pearson, Macquarie University; Kate Lloyd, Macquarie University; Laklak Burarrwanga, Macquarie University; Ritjilili Ganambarr, Macquarie University; Merrkiyawuy Ganambarr-Stubbs, Macquarie University; Banbapuy Ganambarr, Macquarie University; Bawaka Country, NE Arnhem Land, *Morrku mangawu - Knowledge on the land: mobilising Yolngu mathematics from Bawaka, north east Arnhem Land, Australia, to reveal the situatedness of all knowledges.*

**2469. City Economic Evolutions: Relational Perspectives (Sponsored by Economic Geography Specialty Group)**

- Room:* Regis, Marriott, Third Floor (Paper Session)  
ORGANIZER(S): Emil Evenhuis, University of Cambridge; Andy Pike, Newcastle University; Peter Sunley, Southampton University  
CHAIR(S): Peter Sunley, Southampton University
- 1:20** Catherine Mei Ling Wong, Dr.\*, University of Luxembourg; Markus Hesse, Prof., University of Luxembourg, *Exploring Trajectories as an Analytical Frame for Explaining and Comparing Relational Cities.*
- 1:38** Sakura Yamamura\*, University of Kiel, Dept. of Geography; Paul Lassalle, Sheffield Hallam University, Sheffield Business School, *Social networks as hurdle or motor for overcoming path-dependence? The co-evolution of industrial actors and institutions in the tightly knit network of the Maltese ICT sector.*
- 1:56** Martina Fuchs\*, University of Cologne, Faculty of Management, Economics and Social Sciences, *Vocational education and training - a new German export hit? Global-local skill development and the internationalisation of knowledge.*
- 2:14** Zachary Neal\*, Michigan State University; Ben Derudder, Ghent University; Peter Taylor, Northumbria University, *Should I Stay or Should I Go: World City Growth through Advanced Producer Firm Entry and Exit.*
- 2:32** Frank van der Wouden\*, University of California - Los Angeles, *Emergence and evolution of inventor collaboration networks within and between U.S. cities from 1836 to 2012.*
- Discussant(s): Andy Pike, Newcastle University

**2470. Spatial Information in Remote Sensing: Methods and Applications (Sponsored by Geographic Information Science and Systems Specialty Group, Remote Sensing Specialty Group, Spatial Analysis and Modeling Specialty Group)**



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Room: Northeastern, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Le Wang, SUNY at Buffalo

CHAIR(S): Le Wang, SUNY at Buffalo

**1:20** Le Wang\*, SUNY at Buffalo, *Incorporating spatial information in image classification and spectral unmixing.*

**1:40** DongMei Chen\*, Queen's University, *Evaluating image segmentation quality through automated shape comparison.*

**2:00** Chen Shi\*, Capital Normal University; Le Wang, State University of New York at Buffalo, *Spatially-interpolated Endmembers for Spectral Unmixing.*

**2:20** Bin Chen, Beijing Normal University; Bo Huang, The Chinese University of Hong Kong; Bing Xu, Tsinghua University, *Spatially and Temporally Weighted Regression: A Novel Method to Produce Continuous Cloud-Free Landsat Imagery.*

**2:40** Pranab K. Roy Chowdhury\*, University of Tennessee; Budhendra L. Bhaduri, PhD, Oak Ridge National Laboratory, *Deriving Formal Neighborhoods From High Resolution Human Settlement Data.*

## 2471. Placing the Politics of Skill I (Sponsored by Economic Geography Specialty Group)

Room: Brandeis, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Nichola Lowe, University of North Carolina-Chapel Hill; Natasha Iskander, New York University

CHAIR(S): Natasha Iskander, New York University

**1:20** Erica Smith\*, Federation University Australia, *The politics of skill in Australia: How occupational power struggles have reduced access to training.*

**1:40** Natasha Iskander\*, New York University; Nichola Lowe\*, University of North Carolina-Chapel Hill, *More than Staying Alive: Immigrants, Labor Standards and Institutional Repurposing.*

**2:00** Carolyn J. Hatch, PhD\*, Purdue University, *Ramping up rural skills: a critical role for companies.*

**2:20** Victoria Hattam, Professor\*, New School for Social Research, *Design and Production: The Spatial Politics of Skill.*

**2:40** Allison Bramwell\*, University of North Carolina - Greensboro; Allison Bramwell, PhD, University of North Carolina at Greensboro, *Expanding Digital Opportunity? Inclusive Innovation in the 'Ordinary' City.*

## 2472. Instructional Models for active Student learning in Geography Departments (Sponsored by Geography Education Specialty Group)

Room: MIT, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Joseph Terzungwe Zume, Shippensburg University

CHAIR(S): Joseph Terzungwe Zume, Shippensburg University

**1:20** Jeremy Bryson\*, Weber State University, *Hybrid, online, and face-to-face instruction methods: a comparison of student learning and experiences in a world regional geography course.*

**1:40** Jon Caris\*, Smith College; Scott Gilman\*, Smith College, *Blended Learning for GIS Instruction.*

**2:00** Richard Thomas Richardson\*, Idaho State University; Dotty Sammons, PhD, Idaho State University, College of Education; Donna Delparte, PhD, Idaho State University, Geosciences, *Learning Effects and Cognitive Load of Tangible-User Interface Map versus Traditional Topographic Map Instruction: A Comparative Analysis.*

**2:20** Brian Tomaszewski\*, The Rochester Institute of Technology, *Teaching Spatial Thinking Skills with Drones: A Flipped Approach.*

**2:40** Joseph Terzungwe Zume\*, Shippensburg University, *Learning by Doing: An instructional Model for Teaching Environmental Geophysics to Students with Limited Physics and Math Exposure.*

## 2473. Energy Transitions I (Sponsored by Energy and Environment Specialty Group)

Room: Boston University, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Michael Minn, Eastern Washington University

CHAIR(S): Michael Minn, Eastern Washington University

**1:20** Cyrus Samimi\*, University of Bayreuth; Harald Zandler, *Renewable energy and energy consumption in the Eastern Pamirs.*

**1:40** Pankaj Lal\*, Montclair State University, *Exploring Place-Based Opportunities for Bioenergy Sustainability.*

**2:00** William R Delgado\*, Graduate Student, University of Texas at Austin, *Solar Energy for Desalinating Municipal Water for El Paso, Texas.*

**2:20** Melissa R. Allen, PhD\*, Oak Ridge National Laboratory; Amy N. Rose, PhD, Oak Ridge National Laboratory; Joshua R. New, PhD, Oak Ridge National Laboratory; OluFemi A. Omitaomu, PhD, Oak Ridge National Laboratory; Jiangye Yuan, PhD, Oak Ridge National Laboratory; Marcia L. Branstetter, PhD, Oak Ridge National Laboratory, *Understanding the Relationships among City Microclimate, Morphology and Energy Use.*

## 2474. Geospatial Health Research Symposium: Infectious Diseases II (Sponsored by Health and Medical Geography Specialty Group)

Room: Simmons, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Eric M. Delmelle, University of North

Carolina at Charlotte; Michael J. Widener, University of Toronto; Mei-Po Kwan, University of Illinois at Urbana-Champaign

CHAIR(S): Eric M. Delmelle, University of North Carolina at Charlotte

**1:20** Ari Whiteman\*, University of North Carolina - Charlotte; Eric Delmelle, University of North Carolina at Charlotte, *Aversion Risk and the Incentive for Businesses to Invest in Zika Prevention.*

**1:40** David Siders\*, The MITRE Corporation, *Modeling the Impact of Climate Change on the Environmental Suitability for Zika Virus Transmission in the Continental United States.*

**2:00** Kristin Brooks\*, University of North Texas; Chetan Tiwari, PhD, University of North Texas, *The Problems of Estimating Interaction between Mosquito and Human Populations in an Urban Environment.*

**2:20** Ram K. Raghavan, Dr.\*, Department of Diagnostic Medicine and Pathobiology/Kansas State Veterinary Diagnostic Laboratory; Doug G. Goodin, Dr., Department of Geography, College of Arts and Sciences, Kansas State University; John A. Harrington Jr., Dr., Department of Geography, College of Arts and Sciences, Kansas State University; Roman R. Ganta, Dr., Department of Diagnostic Medicine and Pathobiology, College of Veterinary Medicine, Kansas State University; Gary A. Anderson, Dr., Department of Diagnostic Medicine and Pathobiology/Kansas State Veterinary Diagnostic Laboratory, *Assembling Evidence of Climate Change Effects on Tick-Borne Diseases.*

**2:40** Wei Wanyue Ji, Professor\*, University of Missouri - Kansas City; Olusola Olugbenga Festus, Graduate Student\*, University of Missouri - Kansas City, *Spatial Characterization of Infectious Diseases Risk Area: A Case Study of Meningitis Outbreak in Northwestern Nigeria.*

## 2475. Integrating waste systems: interrogating system boundaries and performance possibilities

Room: Suffolk, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Jonathan Krones; Lily Pollans, MIT

CHAIR(S): Jonathan Krones

Introducer: Jordan Howell



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- 1:25** Lily Baum Pollans\*, MIT, *Can Municipal Waste Management Steer Material Consumption?*.
- 1:40** Marian Chertow\*, Yale School of Forestry and Environmental Studies, *The Geography of Waste and By-products in Kalundborg, Denmark*.
- 1:55** Dietmar Offenhuber\*, Northeastern University, *Waste as information - ways of reading waste systems*.
- 2:10** Matthew Eckelman, PhD\*, Northeastern University, *Mapping of material production and waste treatment*.
- 2:25** Jonathan Seth Kronos, PhD\*, Yale Center for Industrial Ecology, *Non-hazardous waste in the United States: Typology, accounting, and circularity*.
- Discussant(s): Samantha Macbride, Baruch College, CUNY

**2476. Symposium on Human Dynamics in Smart and Connected Communities: Smart Cities and Urban Computing 7 (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group, Spatial Analysis and Modeling Specialty Group)**

- Room:** Wellesley, Marriott, Third Floor (Paper Session)
- ORGANIZER(S): Xinyue Ye, Kent State University; Shaowen Wang, University of Illinois at Urbana-Champaign
- CHAIR(S): Chaewon Ahn, MIT
- 1:20** Mischa Young\*, University of Toronto; Ugo Lachapelle, Université du Québec à Montréal, *Transportation behaviours of single-person households in a Canadian context*.
- 1:40** Hui Kong\*, the Ohio State University, *Understanding and Designing the Bus System in Shenzhen: Accessibility measurement and network design based on bus smart card data analysis*.
- 2:00** Chaewon Ahn\*, MIT; Joanna Charlotte Moodey, MIT, *Geography of 'Car Pride' in New York and Houston*.
- 2:20** Michael Carter\*, Queen's University, *Smart Cities: Surveillance and the Production of Urban Space*.
- 2:40** Xiaoping Liu, Sun Yat-sen University; Xun Liang\*, Sun Yat-sen University; Xiaocong Xu, Sun Yat-sen University; Jinpei Ou, Sun Yat-sen University; Xia Li, Sun Yat-sen University, *An integrated approach to simulate future land use scenarios by combining human and natural influences*.

**2477. Political geographies of authoritarianism (Sponsored by Political Geography Specialty Group, Ethics, Justice, and Human Rights Specialty Group, Cultural Geography Specialty Group)**

- Room:** Harvard, Marriott, Third Floor (Paper Session)
- ORGANIZER(S): Natalie R. Koch, Syracuse University; Joshua Hagen, Northern State University
- CHAIR(S): Natalie R. Koch, Syracuse University
- 1:20** Andrew Grant, PhD\*, UCLA, *Beyond authoritarian governmentality: Power, exchange, and order in China*.
- 1:40** Jason Luger, PhD\*, The University of San Francisco, *Comparative Urbanism and the Authoritarian City: Implications for Research and Theory*.
- 2:00** Joshua Hagen\*, Northern State University, *Commemoration, Historic Preservation, and Authoritarianism: Places of Memory and Martyrdom in Nazi Germany*.
- 2:20** Miles Kenney-Lazar, Clark University, Graduate School of Geography, *Neoliberalizing Authoritarianism: Land Dispossession and the Development of Plantation Territories in Post-Socialist Laos*.
- Discussant(s): Natalie R. Koch, Syracuse University

**2479. Patterns, Processes, and People: Measurement Methods for Landscape Ecology and Land Architecture I (Sponsored by Geographic Information Science and Systems Specialty Group)**

- Room:** Arlington, Marriott, Third Floor (Paper Session)
- ORGANIZER(S): Amy E. Frazier, Oklahoma State University; Peter Kedron, Oklahoma State University

- CHAIR(S): Amy E. Frazier, Oklahoma State University
- 1:20** Billie L Turner II, Professor, Arizona State University; Rinku Roy Chowdhury\*, Clark University, *The Parallel Trajectories and Increasing Integration of Land System Science and Landscape Ecology*.
- 1:40** Njoroge I. Gathongo\*, University of Tennessee; Liem Tran, University of Tennessee, Knoxville, *Examining the Vulnerability of the Natural Systems Using Landscape Metrics and Vegetation Indices*.
- 2:00** Alan Yeakley\*, University of Maryland - Baltimore County; Connie Ozawa, Portland State University, *Urban riparian areas - can effective municipal governance stem the losses and degradation of these valuable greenspaces as cities grow?*.
- 2:20** Sigismund Ayodele Wilson\*, Rogers State University; Cyril Wilson, University of Wisconsin - Eau Claire, *Time series analysis of mining-induced land degradation on local livelihoods of mining communities in Sierra Leone*.
- 2:40** Adam G Alsamadisi\*, University of Tennessee, *The Application of Landscape Ecology Metrics to Spatial Data from the US Census to Understand How Racial Geography Relates to Socioeconomic Variables Using Mixed Effects Models*.

**2480. Symposium on Human Dynamics in Smart and Connected Communities: Social Media and Big Data 2 (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group, Cartography Specialty Group)**

- Room:** Berkeley, Marriott, Third Floor (Paper Session)
- ORGANIZER(S): Ming-Hsiang Tsou, San Diego State University; Atsushi Nara, San Diego State University; Xuan Shi, University of Arkansas
- CHAIR(S): Atsushi Nara, San Diego State University
- 1:20** Chen Xu\*, University of Wyoming, *Urban Informatics in the Era of Big Data*.
- 1:40** Cheng-Chia Huang\*, San Diego State University; Atsushi Nara, San Diego State University, *A social media data mining approach to identify sense of gentrification*.
- 2:00** Xinyue Ye\*, Kent State University; Lanxue Dang, Henan University; Jay Lee, Kent State University, *A Framework of Spatial Social Network Analytics*.
- 2:20** Xuan Shi\*, University of Arkansas, *Spark for geocomputation and data mining over big geospatial and social media data*.
- Discussant(s): Lanxue Dang

**2481. Immigrants' Housing Experiences in Urban and Suburban areas in Canada, the U.S., and Australia (Sponsored by Ethnic Geography Specialty Group)**

- Room:** Clarendon, Marriott, Third Floor (Paper Session)
- ORGANIZER(S): Stavros T. Constantinou, Ohio State University; Carlos Teixeira, University of British Columbia Okanagan
- CHAIR(S): Stavros T. Constantinou, Ohio State University
- 1:20** James Forrest, PhD\*, Macquarie University, *Intergenerational Homeownership and residential Area Quality Improvements Among Ethnic Immigrant Groups in Sydney Australia*.
- 1:40** Madhuri Sharma, Dr.\*, University of Tennessee, Knoxville, *Racial/ethnic Diversity and Segregation in US Metropolises: 2000-2014*.
- 2:00** Audrey Lumley-Sapanski\*, Penn State University, *Residential Attainment of Recent Refugee Groups: Refugee Residential Distribution in Chicago Five Years Post Resettlement*.
- 2:20** Michael Frascchetti\*, York University, *White Nepotism: Interrogating "Corporate Culture" in its Relation to Systemic Racist Employment Practices*.
- 2:40** Carlos Teixeira\*, University of British Columbia Okanagan; Joe T. Darden\*, Michigan State University, *Black*

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*Settlement Patterns in Canada and the United States: A Reassessment with Implications for Anti-discrimination in Housing Policies.*

**2482. 'Crisis', peripherality and the governing of socio-spatial inequality in Europe: Logics, practices, emotions (1) (Sponsored by European Specialty Group)**

*Room:* Dartmouth, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Kathrin Hörschelmann, Leibniz-Institute for Regional Geography; Erika Nagy, MTA KRTK; Judith Miggelbrink, Leibniz Institute for Regional Geography  
CHAIR(S): Judit Timar, Centre for Economic and Regional Studies, Hungarian Academy of Sciences

Introducer: Judit Timar

**1:30** Ilgvars Jansons\*, Hungarian Academy of Sciences; Gabor Daniel Velkey\*, CERS-HAS, *'Care economy': the rise of non-state care-taking organisations in the context of peripheralisation. A case study from County Békés, Hungary.*

**1:50** Jonathan Dewes McCombs\*, University of Georgia, *Racialized Territorial Stigmatization and Gentrification in Budapest, Hungary: A Critique of a "Social Rehabilitation Project".*

**2:10** Kathrin Hörschelmann\*, Leibniz-Institute for Regional Geography; Kathy Burrell, Dr., University of Liverpool, UK, *Perilous Journeys: Narrating conflicting crises of European (In)security through the lens of refugee journeys.*

Discussant(s): Erika Nagy, MTA KRTK

**2483. Hurricanes III: coastal geomorphology and paleotempestology (Sponsored by Coastal and Marine Specialty Group)**

*Room:* Exeter, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Harry Williams, University of North Texas; Kam-Biu Liu, Louisiana State University

CHAIR(S): Harry Williams, University of North Texas

**1:20** Kam-Biu Liu, PhD\*, Louisiana State University; Thomas A Bianchette, PhD, Louisiana State University; Terrence A McCloskey, PhD, Louisiana State University, *Marine or Terrestrial? Using Geochemical Data Derived from XRF Analysis in Paleotempestology and Coastal Paleoenvironmental Studies.*

**1:40** Thomas Anthony Bianchette\*, Louisiana State University; Kam-biu Liu, Louisiana State University; Lei Zou, Louisiana State University; Nina Lam, Louisiana State University; Yi Qiang, University of Colorado, *Spatial and temporal variability of wetland accretion rates throughout southern Louisiana: Impacts from Hurricanes Gustav and Isaac..*

**2:00** Hannah Taylor\*, Texas A&M University; Tyler Rozelle; Claire Decuir; Rachel Eyler; Phil Wernette; Caleb Taube; Stephanie Thompson, *What is a Dune: Expanding Automated Approaches of Dune Extraction and LiDAR Processing.*

**2:20** Jacob Davis Lehner\*, Texas A&M University, Department of Geography, College Station, Texas, USA 77843; Phillippe A. Wernette, Texas A&M University, Department of Geography, College Station, Texas, USA 77843; Michael P. Bishop, Texas A&M University, Department of Geography, College Station, Texas, USA 77843; Chris Houser, University of Windsor, Department of Earth and Environmental Sciences, Windsor, Ontario, Canada, N9B 3P4, *Multi-Temporal Assessment of Barrier Island Evolution in Context of Framework Geology.*

**2:40** Harry Williams\*, University of North Texas, *Assessing the effectiveness of coastal foredune barriers in reducing hurricane overwash..*

**2484. PYROGEOGRAPHY III: BIOSYSTEMS (Sponsored by Cultural and Political Ecology Specialty Group, Landscape Specialty Group, Biogeography Specialty Group)**

*Room:* Fairfield, Marriott, Third Floor (Paper Session)

ORGANIZER(S): J Jesse Minor, University of Arizona; Jennifer Callanan, William Paterson University; Paul Laris, CSU Long Beach

CHAIR(S): J Jesse Minor, University of Arizona

**1:20** Caitlin S. Garner, B.Sc.\*, Brock University; Michael F.J. Pisarcic, Ph.D., Brock University; Krista S. Chin, M.Sc., Government of the Northwest Territories, *The Impacts of Wildfire on Benthic Macroinvertebrate Communities in Northern Stream Ecosystems.*

**1:40** Kurt F. Kipfmüller\*, University of Minnesota; Evan R Larson, University of Wisconsin-Platteville; Lane B Johnson, National Park Service, *Fire, Climate, and People in the Border Lakes Region of Northern Minnesota: A new perspective.*

**2:00** Xinyuan Wei\*, University of Maine; Daniel Hayes, University of Maine, *Forest fire, post-fire and their influences to the carbon cycle in North America.*

**2:20** Gladys Valentin\*, University of New Mexico; Caitlin L. Lippitt, Ph.D., University of New Mexico, *Assessment of Vegetation Response to Frequent Wildfire Events at Bandelier National Monument, New Mexico.*

**2:40** J Jesse Minor\*, University of Arizona; Donald A Falk, University of Arizona School of Natural Resources and the Environment, *Ecological effects of multiple mixed-severity wildfires in montane mixed conifer and pine-oak forests.*

**2489. Mapping and Monitoring Land Cover and Land Use Change (LCLUC) in a Changing Environment - 1 (Sponsored by Geographic Information Science and Systems Specialty Group, World Resources Institute and the University of Maryland Global Land Analysis and Discovery Team, Remote Sensing Specialty Group)**

*Room:* Vineyard, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Giuseppe Molinaro, University of Maryland; Liz Goldman, World Resources Institute

CHAIR(S): Giuseppe Molinaro, University of Maryland

**1:20** Susan Minnemeyer\*, World Resources Institute, *Global Forest Watch Provides Analysis to Power Forest Monitoring.*

**1:40** Justin Dodd Mullikin\*, Rutgers University, *Will we make it? Rwandan farmers' hopes for, and expectations of, "development".*

**2:00** Santiago Lopez, PhD\*, University of Washington Bothell, *Environmental change in the equatorial Andes: Linking climate, land use, and land cover transformations.*

**2:20** Stephen P Aldrich, PhD\*, Indiana State University; Eugenio Y Arima, PhD, University of Texas-Austin; Cynthia S Simmons, PhD, University of Florida, *Land Conflict and Forest Fragmentation in the Eastern Amazon.*

**2:40** Cyril Wilson\*, University of Wisconsin-Eau Claire, *Land use/land cover change, microclimate, and surface runoff interface: Experimental modeling from Rokel River Basin, Sierra Leone.*

**2490. Effective pedagogies for sustainability and climate change in higher education: Session 2 (Sponsored by Human Dimensions of Global Change Specialty Group, Climate Specialty Group, Geography Education Specialty Group)**

*Room:* Yarmouth, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Jeff Robert Baldwin, Sonoma State University

CHAIR(S): Jeff Robert Baldwin, Sonoma State University

**1:20** Rebecca A. Johns, Ph.D.\*, University of South Florida St. Petersburg, *Ignoring the Elephant in the Room: Environmental Education and Mass Consumption.*

**1:40** Stephen Mulherin, Ph.D.\*, California State University Los Angeles, *Civic Learning and Undergraduate Urban Geography.*

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**2:00** John Andrew Jolly-Ballantine\*, University of Connecticut, *Enhancing World Regional Geography Through Collaboration with International Programs.*

**2:20** Sharon M. Meagher\*, Widener University; Stephen Robert Madigosky, Widener University, *A Unique Service Learning Initiative in Costa Rica: Converting Conventional Coffee Fields to Organic Shade Grown Operations.*

**2491. Land Politics in Asia: Frontiers, Borderlands, Histories (Sponsored by Political Geography Specialty Group, Asian Geography Specialty Group, Geographies of Food and Agriculture Specialty Group)**

**Room:** Nantucket, Marriott, Fourth Floor (Panel Session)

ORGANIZER(S): Christian C. Lentz, UNC Department of Geography; Reece Jones, University of Hawaii at Manoa; Jonathan Padwe, University of Hawaii - Manoa  
CHAIR(S): Erin Collins, American University  
Panelists: Christian C. Lentz, UNC Department of Geography; Emily Yeh, University of Colorado; Jonathan Padwe, University of Hawaii - Manoa; Michael B. Dwyer, University of Berne, Switzerland; Geographisches Institut; Zachary R. Anderson, University of Toronto

**2492. PREM: The Daily Life of Police Violence (Sponsored by Urban Geography Specialty Group, Ethics, Justice, and Human Rights Specialty Group, Socialist and Critical Geography Specialty Group)**

**Room:** Provincetown, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Ted Rutland, Concordia University; Jennifer Ridgley, Carleton University; Christina Heatherton, Trinity College  
CHAIR(S): Christina Heatherton, Trinity College  
**1:20** Catherine Guimond\*, San Francisco Art Institute, *"Cleaning Up the Bronx: Gentrification Narratives of Crime and Policing."*  
**1:40** Jaime Alves\*, CUNY - College of Staten Island, *Pornotropes: Police Terror and Urban Geopolitics in the African Diaspora.*  
**2:00** Treva Ellison\*, Dartmouth College; Treva C Ellison, Ph.D., Dartmouth College, *"Black Feminist Approaches to Queer Criminality."*  
**2:20** Tyler Wall\*, *Smelling Like a State: The Violent Geographies of the Sniffer Dog.*  
**2:40** Laurel Mei-Singh\*, Princeton University, *Policing Indigeneity: Conservation and Resource Enforcement in Hawai'i.*

**2493. Health and Diseases in China (Sponsored by China Specialty Group)**

**Room:** Orleans, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Xiaobo Su, University of Oregon  
CHAIR(S): Chun Yin, East China Normal University  
**1:20** Jianing Liu\*, Beijing Normal University; Xiaoxu Wu, Beijing Normal University; Chenlu Li, Beijing Normal University; Bing Xu, Tsinghua University; Luojia Hu, Beijing Normal University; Jin Chen, Beijing Normal University; Shuang Dai, Tsinghua University, *Identification of weather variables sensitive to dysentery in disease-affected county of China.*  
**1:40** Hanbei Cheng\*, Wuhan University; Hanbei Cheng, Wuhan University, China; Yan Guo, Wuhan University, *The Measurement and Determinant of Subjective Wellbeing in Urban China: A Cohort Study of Neo-Migrant Enclaves in Beijing, Shanghai, Guangzhou.*  
**2:00** Yinkang Zhou\*, Nanjing University, *Evaluation of residential land market health status in China.*  
**2:20** Chun Yin\*, East China Normal University; Bindong Sun, East China Normal University, *Multi-scales Comparative Study on Built Environmental Impacts on BMI of Urban Residents.*  
**2:40** Guangdong Li\*, Institute of Geographical Sciences and

Natural Resources Research, CAS, *The effect of economic growth, urbanization, and industrialization on fine particulate matter (PM<sub>2.5</sub>) concentrations in China.*

**2494. Spatial-temporal Analysis in China Studies (Sponsored by China Specialty Group)**

**Room:** Hyannis, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Xiaobo Su, University of Oregon  
CHAIR(S): Enru Wang, University of North Dakota  
**1:20** Enru Wang\*, University of North Dakota; Zhongcai Wu, Hunan Institute of Science and Technology; Zhengyuan Zhao, Hunan Institute of Parasitic Diseases, *Spatio-temporal Analysis of Schistosomiasis Japonica in the Dongting Lake Region.*  
**1:40** Ling Zhang\*, University of Utah; Yehua Dennis Wei, University of Utah, *Spatiotemporal dynamics and spatial determinants of urban growth in Suzhou, China.*  
**2:00** Xin Mai\*, The University of Hong Kong; Roger C.K. Chan, The University of Hong Kong, *An Exploratory Study of Economic Resilience in Socialist China From 1953 to 2016.*  
**2:20** Yao Jiang\*, Xiawei Yin; Jingai Wang, *The distribution change of human population by altitude in China.*  
**2:40** Meng Zhou\*, Hong Kong Baptist University; Donggen Wang, Hong Kong Baptist University, *Long-term Trend of Automobile Ownership and Usage in a Chinese Metropolis.*

**2495. Liminal Geographies: Mapping Interstitial Spaces in the City**

**Room:** Falmouth, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Emily R. Cummins  
CHAIR(S): Emily R. Cummins  
**1:20** Melissa Y Rock, PhD\*, SUNY New Paltz; Salvatore Engel-DiMauro\*, SUNY New Paltz, *Urban farming on the margins: Interstitial spaces of food production in Chongqing, China.*  
**1:40** Emily R. Cummins\*, Trinity College, *Liminal Spaces, Liminal Times: Living in Between in Detroit.*  
**2:00** Charles Lesh\*, Auburn University, *"This spot isn't on Google Maps": Graffiti Bombing and the Production of (Liminal) Space.*  
**2:20** Eric Goldfischer\*, University of Minnesota - Minneapolis, *How Encampments Became Hotspots: Legal Geographies of Anti-Homeless Policing in New York City.*  
**2:40** Renfeng Ma, Department of Geography, Ningbo University, Ningbo 315211, Zhejiang, China, *Production of urban space through gentrification: the creation of creative industrial parks in Shanghai and Ningbo.*

**2496. Experiments in Force I: Science and the Apparatus of Warfare (Sponsored by Political Geography Specialty Group)**

**Room:** Maine, Marriott, Fifth Floor (Paper Session)

ORGANIZER(S): Katharine Hall Kindervater, Dartmouth College; Nisha Shah, University of Ottawa  
CHAIR(S): Katharine Hall Kindervater, Dartmouth College  
**1:20** Nisha Shah\*, University of Ottawa, *Wounds of War: Bodies and Ballistics as Emergent Infrastructure of Lethal Force.*  
**1:40** Lucy Suchman\*, Lancaster University, UK, *Apparatuses of recognition: simulated geographies of military training.*  
**2:00** Alison Howell\*, Rutgers University - Newark, *War and Anthropometric Science in Historical Perspective: From a Politics of Excision to a Deathly Politics of Inclusion.*  
**2:20** Sabine Hildebrandt\*, Boston Children's Hospital, Division of General Medicine/Harvard Medical School, *Anatomical Science and the National Socialist Regime: Interaction and Complicity.*  
Discussant(s): Louise Amore, Durham University



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- 2497. Making the Future Present: Political Ecologies of Prefiguration (Sponsored by Political Geography Specialty Group, Cultural and Political Ecology Specialty Group, Development Geographies Specialty Group)**  
*Room: Massachusetts, Marriott, Fifth Floor (Panel Session)*  
**ORGANIZER(S):** Kasia Paprocki, Cornell University; Liz Koslov, New York University  
**CHAIR(S):** Nikhil Anand, University of Pennsylvania  
**Panelists:** Teo Ballve, Colgate University; Liz Koslov, New York University; Kasia Paprocki, Cornell University; James McCarthy, Clark University; Nikhil Anand, University of Pennsylvania
- 2498. CITY Panel II: Capitalisation and Materiality: post-colonial thought and urban-rural revolts (Sponsored by Routledge)**  
*Room: New Hampshire, Marriott, Fifth Floor (Panel Session)*  
**ORGANIZER(S):** Antonios Vradis, Loughborough University; Bob Catterall, CITY  
**CHAIR(S):** Bob Catterall, CITY  
**Panelists:** David Simon, Royal Holloway, University Of London; Andrea Gibbons; Miguel Robles-Duran, New School University; Nasser Abourahme, Columbia University; Oren Yiftachel, Ben-Gurion University; Antonios Vradis, Loughborough University
- 2499. Cognition, Behavior and Design 2 (Sponsored by Geographic Information Science and Systems Specialty Group, Environmental Perception and Behavioral Geography Specialty Group, Cartography Specialty Group)**  
*Room: Vermont, Marriott, Fifth Floor (Paper Session)*  
**ORGANIZER(S):** Alexander Savelyev, The Pennsylvania State University  
**CHAIR(S):** Jeff Howarth, Middlebury College
- 1:20** Menno-Jan Kraak\*, University of Twente / ITC; Yuhang GU, University of Twente / ITC; Ieva Dobraja, University of Twente / ITC; Yuri Engelhardt, University of Twente / ITC, *OD matrix visualization revisited.*
- 1:40** Cary Anderson\*, Pennsylvania State University, *Dimensions of Well-Being: Challenges in Representing Composite Indices on Maps.*
- 2:00** P. William Limpisathian\*, The Pennsylvania State University; Cynthia A. Brewer, The Pennsylvania State University, *Towards ContrastBrewer: Evaluating visual contrast and hierarchy relations of cartographic features across multi-scale map displays.*
- 2:20** Carolyn S Fish, PhD Candidate\*, Pennsylvania State University; Amy L Griffin, PhD, University of New South Wales, Australian Defense Force Academy, *Emotional responses to climate change maps.*
- 2:40** Patrick J. Kennelly\*, LIU Post, *Varying Surface-Normal Orientations to Generalize Shaded Relief Maps.*



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Poster Sessions for Thursday are located on pages 174-182.

## 2501. Gazing at Power in Alternative Economies Research

Room: Room 101, Hynes, Plaza Level (Panel Session)

ORGANIZER(S): Nathaniel Gabriel, Mississippi State University; Eric Sarmiento, Texas State University - San Marcos

CHAIR(S): Nathaniel Gabriel, Mississippi State University

Panelists: Christian Anderson, University of Washington-Bothell; Ethan Miller, Bates College; Boone Wingate Shear, University of Massachusetts Amherst; Yahya Mete Madra, Drew University, Madison NJ; Marianna Pavlovskaya, Hunter College and CUNY Graduate Center; Deborah Scott, University of Edinburgh

## 2502. The Future of Regional Development and Urban Planning (Sponsored by Regional Development and Planning Specialty Group, Urban Geography Specialty Group, Development Geographies Specialty Group)

Room: Room 102, Hynes, Plaza Level (Panel Session)

ORGANIZER(S): Zachary A. Jones, Eastern Michigan University; Diganta Das, Nanyang Technological University

CHAIR(S): Zachary A. Jones, Eastern Michigan University

Panelists: Felix Haifeng Liao, University of Idaho; Stephen Buckman, University of South Florida; George M. Pomeroy, Shippensburg University; Yingru Li, University of Central Florida; Debnath Mookherjee, Western Washington University; Lindsay Chase; Olubunmi Alugbin, Lagos State Ministry of Physical Planning and Urban Development, Nigeria; Andrew Ryder, The University of Portsmouth, UK; Charles John Barlow, University of Chicago; Richard Ross Shaker, Ryerson University; Matthew Hunter, University of Toronto

## 2503. Article 15: Understanding the Human Right to the Benefits of Science to Help Progress and Its Applications (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme)

Room: Room 103, Hynes, Plaza Level (Panel Session)

ORGANIZER(S): Jessica Wyndham, AAAS Scientific Responsibility, Human Rights and Law Program; Mainstreaming Human Rights

CHAIR(S): Jessica Wyndham, AAAS Scientific Responsibility, Human Rights and Law Program

Discussant(s): Stephen Marks, Harvard University

Panelists: Jessica Wyndham, AAAS Scientific Responsibility, Human Rights and Law Program; Patricia Carbajales-Dale, Clemson University; Mark Frezzo, University of Mississippi

## 2504. The future of the Journal of Cultural Geography, with featured panelist Alyson Greiner (Editor, 2002-2016) (Sponsored by Routledge, Cultural Geography Specialty Group)

Room: Room 104, Hynes, Plaza Level (Panel Session)

ORGANIZER(S): Nicholas Jon Crane, University of Wyoming; Weronika A. Kusek, Northern Michigan University; Jordan Brasher, University of Tennessee

CHAIR(S): Nicholas Jon Crane, University of Wyoming

Discussant(s): Joshua F. Inwood, Pennsylvania State University

Panelists: Alyson L. Greiner, Oklahoma State University; Elizabeth Chacko, The George Washington University; Nicholas Bauch, University of Oklahoma; William E. Doolittle, University of Texas - Austin

## 2505. Hazards Risks and Disasters 9 - Resilience and Recovery (Sponsored by Hazards, Risks, and Disasters Specialty Group)

Room: Room 105, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Eric Tate, University of Iowa; Johanna L.

Ostling

CHAIR(S): Eric Tate, University of Iowa

3:20 Udit Bhatia\*, Sustainability and Data Sciences Laboratory, Northeastern University, Boston; Auroop R Ganguly, Sustainability and Data Sciences Laboratory, Northeastern University, Boston, *Climate Extremes and the Resilience of Natural and Engineered Infrastructure Systems*.

3:40 Maria Papathoma-Köhle, MSc, PhD\*, University of Natural Resources and Life Sciences; Thomas Thaler, MSc, PhD, Institute for Mountain Risk Engineering University of Natural Resources and Life Sciences Peter-Jordan Strasse 82, 1190, Vienna, Austria; Sven Fuchs, MSc, PhD, PD, Institute for Mountain Risk Engineering University of Natural Resources and Life Sciences Peter-Jordan Strasse 82, 1190, Vienna, Austria, *Resilience of the built environment: the way forward in Disaster Risk Reduction? A new framework and preliminary results from the European Alps*.

4:00 Cristina E. Muñoz\*, University of Iowa, *Literature Review of Social Capital for Disaster Resilience*.

4:20 Volodymyr Mihunov\*, Louisiana State University; Lei Zou, Louisiana State University; Nina Lam, Dr., Louisiana State University, *Temporal Changes of Community Resilience to Drought Hazard in South-Central United States*.

4:40 Aparna Kumari\*, University Of Idaho; Tim G Frazier, Georgetown University, *Assessment of social capital/ network for short and long term post disaster recovery: A case study of Manatee County, Florida*.

## 2506. (De)Stigmatising Sexscapes: Politics, Policy and Performance V: 5. Mobilities, Immobilities and Boundaries (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme, Sexuality and Space Specialty Group)

Room: Room 107, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Paul J. Maginn, University of Western Australia; Emily Cooper, University of Central Lancashire; Erin Sanders-McDonagh, Middlesex University

CHAIR(S): Erin Sanders-McDonagh, Middlesex University

3:20 Rachel Wotton\*, *Sex workers who provide services to clients with disability*.

3:45 Alison J. Lynch, J.D., M.A.\*, Associate Instructor, Mental Disability Law and Policy Associates, *Sexuality, Disability and the Law: Beyond the Last Frontier?*.

4:10 Bella Robinson\*, CoyoteRI; Elena Shih, Brown University, *Policing Modern Day Slavery: Sex Work and the Carceral State in Rhode Island*.

## 2507. The 2016 US Elections: Reflections and Predictions from a Geographical Point of View (Sponsored by Political Geography Specialty Group, Late-Breaking News Special Session Track)

Room: Room 108, Hynes, Plaza Level (Panel Session)

ORGANIZER(S): John Heppen, University of Wisconsin, River Falls

CHAIR(S): John Heppen, University of Wisconsin, River Falls

Panelists: Barney Warf, University of Kansas; John Clark Archer, University of Nebraska; Fred M. Shelley, University of Oklahoma; Erin H. Fouberg, Northern State University; John Wertman, American Association of Geographers

## 2508. Architecture as urban generator? Place making, branding and identity 4/4 (Sponsored by Urban Geography Specialty Group, Cultural Geography Specialty Group, Economic Geography Specialty Group)

Room: Room 109, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Nadia Alaily-Mattar, Munich University of Technology; Alain Thierstein, Munich University of Technology; Davide Ponzini

CHAIR(S): Johannes Dreher, Technical University Munich

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**3:20** Kaori ITO\*, Department of Architecture, Tokyo University of Science, *Civic Pride and Place Attachment through the Medium of the Built Environment*.

**3:40** Jiang Chang\*, Michigan State University; Dixiang Xie, Guangdong University of Technology; Hongsheng Chen, Southeast University, *Why the Community's Physical Features Matter? A Multiple-Mediation Model of their Impacts on Community Attachment*.

**4:00** Kean T McDermott\*, The George Washington University, *Inventing North End Shaw, Performance, Identity and Branding in a Gentrified Washington, D.C.*

**4:20** Alenka Poplin\*, Iowa State University, *Mapping Emotions and Places in a Geographic Information System*.

Discussant(s): Margo Shea, Sewanee: the University of the South

**2509. De/Re-constructing Water Security to Advance Critical Human Geography and Political Ecology (Sponsored by Political Geography Specialty Group, Cultural and Political Ecology Specialty Group)**

**Room:** Room 110, Hynes, Plaza Level (Panel Session)

ORGANIZER(S): Emma S. Norman, Northwest Indian College; Jessica Budds, University of East Anglia

CHAIR(S): Jessica Budds, University of East Anglia

Discussant(s): Karen Bakker, University of British Columbia; Erik Swyngedouw, University of Manchester

Panelists: Jessica Budds, University of East Anglia; Kathleen O'Reilly, Texas A&M University; Jamie Shinn, West Virginia University; Afton Clarke-Sather, University of Delaware

**2510. Planetary Urbanization 4: Extended Urbanization - Movements and Contradictions**

**Room:** Room 111, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Christian Schmid, ETH Zurich

CHAIR(S): Monika Streule, ETH Zurich

**3:20** Rodrigo Castriota\*, Center for Development and Regional Planning - UFMG, *Contradictory urbanization: differential and abstract space in the Brazilian Amazon*.

**3:40** Sourav Kumar Biswas\*, AECOM / Urban Theory Lab, *Measuring and Mapping the 'Urban': The Case of India*.

**4:00** Alice Hertzog\*, Swiss Federal Institute of Technology, Zurich, *Urbanization On the Move: The Emergence of the West African Corridor*.

**4:20** Elisa Tullia Bertuzzo, PhD\*, Kunsthochschule Berlin-Weißensee / School of Arts Berlin-Weißensee, *Through The Looking Glass: The World-On-The-Move One Finds Behind "Extended Urbanisation"*.

Discussant(s): Milica Topalovic, ETH Zurich Department of Architecture

**2511. Can African urbanism break cycles of disaster risk accumulation?**

**Room:** Room 200, Hynes, Second Level (Panel Session)

ORGANIZER(S): Mark Pelling, King's College London

CHAIR(S): William D. Solecki, Hunter College - CUNY

Panelists: Mark Pelling, King's College London; Susan Parnell, University of Cape Town; Emmanuel Osuteye, University College London; Maria Rusca, King's College London; Matthias Garschagen, United Nations University; David Simon, Royal Holloway, University Of London

**2512. Studying Interspecies Relations and Staying with the Trouble II: Governing Difference (Sponsored by Socialist and Critical Geography Specialty Group, Animal Geography Specialty Group, Indigenous Peoples Specialty Group)**

**Room:** Room 201, Hynes, Second Level (Paper Session)

ORGANIZER(S): Julia M H Sizek, University of California, Berkeley; Ruth Elizabeth Goldstein

CHAIR(S): Ruth Elizabeth Goldstein

**3:20** Nida Rehman, University of Cambridge, *Chasing Mosquitoes in "Multispecies Landscapes": Assembling the Colonial Geographies of Malaria Research*.

**3:40** Kalli F. Doubleday\*, University of Texas, Austin, *Liminal embodiment between wild/captive: More-than-human relational empathy at the individual scale*.

**4:00** Liron Shani\*, Brandeis University, *Anthropoid Mercenaries: invaders, locals, and nature-culture in the relationship between insects and humans in Southern Israeli agriculture*.

**4:20** Julia M H Sizek\*, University of California, Berkeley, *"Beyond his proper epoch": Desert Tortoise Charisma and Survival*.

**4:40** Lesley Head\*, University Of Melbourne, *What kinds of species are invasive plants?*

**2513. Geographies of Food and Agriculture Special Topics: Research in agriculture (Sponsored by Geographies of Food and Agriculture Specialty Group)**

**Room:** Room 202, Hynes, Second Level (Paper Session)

ORGANIZER(S): Colleen Hammelman

CHAIR(S): Ruopu Li

**3:20** Sonia Heckler\*, University of Nevada - Reno, *High Tunnels: A Solution to Farmer's Crop Growth Challenges*.

**3:40** Leah Mungai\*, Michigan State University, *Smallholder Farms and the Potential for Sustainable Intensification*.

**4:00** Nuratu Muhammad\*, Bayero University Kano, *Spatial Distribution of Female Farm And Non Farm Activities In Parts Of Kano And Jigawa States*.

**4:20** Ruopu Li\*, Southern Illinois University-Carbondale; Tao Huang, Southern Illinois University-Carbondale, *Enhancing the Resilience of Marginal Agricultural System: A Food-Energy-Environment Nexus Perspective*.

**2514. GeoMentors: A Program Primer and Strategies for Success (Sponsored by AAG Careers and Professional Development Theme)**

**Room:** Room 203, Hynes, Second Level (Panel Session)

ORGANIZER(S): Candice Luebbering, American Association of Geographers

CHAIR(S): Candice Luebbering, American Association of Geographers

Discussant(s): Candice Luebbering, American Association of Geographers

**2515. Employer Interviews (Sponsored by AAG Careers and Professional Development Theme)**

**Room:** Room 204, Hynes, Second Level (Panel Session)

ORGANIZER(S): Mark Revell, American Association of Geographers; Drew Lehman, Drew Lehman Environment and Education

CHAIR(S): Mark Revell, American Association of Geographers

**2516. Walking the Tightrope: Practical Ideas for Building Inclusive Spaces for Women in Geography (Sponsored by AAG Careers and Professional Development Theme)**

**Room:** Room 205, Hynes, Second Level (Panel Session)

ORGANIZER(S): Patricia A. Solis, Texas Tech University - Lubbock, TX; Rickie Sanders, Temple University

CHAIR(S): Patricia A. Solis, Texas Tech University - Lubbock, TX

**2517. Participatory Research in Geography 4: Disaster (Sponsored by AAG Mapathon)**

**Room:** Room 206, Hynes, Second Level (Paper Session)

ORGANIZER(S): Britta Ricker, University of Washington Tacoma; Gretchen Fagg, University College London; Michelle Montgomery Thompson, University of New Orleans

CHAIR(S): Britta Ricker, University of Washington Tacoma

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**3:20** Gretchen Fagg\*, University College London; Britta Ricker, University of Washington, Tacoma; Patrick Rickles, University College London, *Participatory Geographies, Partnerships & Preparedness: Exploring community engagement, collaboration, and co-design of disaster preparedness tools.*

**3:40** Jeroen Verplanke\*, ITC - University of Twente; Laras Kusumo, Department of City Planning, Jakarta Capital City Government; Diana Reckien, ITC - University of Twente, *"We've arrived at the shelter!" Assessing Flood Evacuation Information from Twitter. Case Study: Jakarta.*

**4:00** Michelle Montgomery Thompson\*, University of New Orleans, *Moving History: Place-based Planning for Affordable Housing in New Orleans.*

**4:20** Ana Brandusescu\*, Web Foundation; Renee E. Sieber, McGill University, *Local participation in crowdmapping chronic disasters.*

Discussant(s): Britta Ricker, University of Washington Tacoma

## 2520. Human Geography Poster Session I

Posters for this session can be found on pages 178-182.

Room: Hall C, Hynes, Second Floor (Poster Session)

This session is a continuation of the previous timeslot, 2420.

## 2521. Robotic Futures 4: The Politics of Security

Room: Room 301, Hynes, Third Level (Paper Session)

ORGANIZER(S): Lily A. House-Peters, California State University, Long Beach; Ian Shaw, The University of Glasgow

CHAIR(S): Ian Shaw, The University of Glasgow

**3:20** Julia M Hildebrand\*, Drexel University, *The Consumer Drone: Narratives of Security and Threat.*

**3:40** Louise Amooore\*, Durham University, *On Intuition: Machine Learning and Posthuman Ethics.*

**4:00** Ian Shaw\*, The University of Glasgow, *Robots, Matter-Processing, and Intelligent Violence.*

**4:20** Francisco Klausner\*, University of Neuchâtel, *Drones, Policing and Airspace.*

Discussant(s): Ian Shaw, The University of Glasgow

## 2522. People-Centred Food Policy 3: Food Systems Planning (Sponsored by Geographies of Food and Agriculture Specialty Group)

Room: Room 302, Hynes, Third Level (Paper Session)

ORGANIZER(S): Michael Chrobok, University of Toronto; Luke Craven, University of Sydney

CHAIR(S): Michael Chrobok, University of Toronto

**3:20** Brandon M Hoover, Messiah College; Sam Boden, Messiah College, *Title: Food Policy Councils in the Mid-Atlantic: Building Cohorts to Build Community.*

**3:40** Lauren Kepkiewicz\*, University of Toronto; Sarah Rotz, University of Guelph, *Toward Anti-Colonial Food Policy in Canada? A Reflection on the People's Food Policy Project.*

**4:00** Pierre-Mathieu Le Bel\*, Université Blaise Pascal; Salma Loudiyi, VetAgro Sup, *Engaging a dialogue between food sovereignty and social innovation: the case of France.*

Discussant(s): Luke Craven, University of Sydney

## 2523. Critical Geography and Geography Education: Intersections and Opportunities (Sponsored by Geography Education Specialty Group)

Room: Room 303, Hynes, Third Level (Panel Session)

ORGANIZER(S): Derek Ruez, University of Kentucky

CHAIR(S): Derek Ruez, University of Kentucky

Introducer: Carrie Mott

Introducer: Michael N. Solem

Discussant(s): Nicole Laliberte, University of Toronto - Mississauga; Derek Ruez, University of Kentucky; Jamie L. Winders, Syracuse University

Panelists: Jung Eun Hong, University of West Georgia; Anne E. Mosher, Syracuse University

## 2524. Tourism Geographies: Urban Tourism (Sponsored by Recreation, Tourism, and Sport Specialty Group)

Room: Room 304, Hynes, Third Level (Paper Session)

ORGANIZER(S): Patrick Brouder, Brock University

CHAIR(S): Jose A. Torres, Central Connecticut State University

**3:20** Jose A. Torres, Dr.\*, Central Connecticut State University, *A New Approach to Urban Tourism in Porto, Portugal.*

**3:40** Veronika Dumbrovska\*, Charles University, *The evolution of urban tourism precincts: A case study of Prague's historic centre.*

**4:00** Clement Marie Dit Chiro\*, Université d'Angers, *"Tourism urbanization and urban conflicts: a theoretical reflection from the Mexican case".*

**4:20** Hanbyeol Jang\*, Kyung Hee University; Sang-Hyun Chi, Kyung Hee University, *Social Capital in the Revitalization Process of Transforming Traditional Market into Tourism Destination.*

**4:40** Taekeon Hwang\*, Kyung Hee University; Sung-Jin Cho, Transportation research institute (IMOB) at Hasselt university; Moongi Choi, Kyung Hee University; Chulsue Hwang, Kyung Hee University, *Decision tree-based simulation study of tourism destination choice for travel demands estimation - A case study of South Korea.*

## 2525. Special Sessions on: Geographic Data Science II

Room: Room 305, Hynes, Third Level (Paper Session)

ORGANIZER(S): Alex Singleton; Nick Malleson, University of Leeds; Marynia Aniela Kolak, Arizona State University

CHAIR(S): Alex Singleton

**3:20** Konstantinos Daras\*, University of Liverpool; Mark Green, University of Liverpool; Alex Singleton, University of Liverpool; Alec Davies, University of Liverpool, *Mapping healthy places through consumer and public service data.*

**3:40** Justin Hollander\*, Tufts University, *Urban Social Listening Potential and Pitfalls for Using Microblogging Data in Studying Cities.*

**4:00** Nick Malleson\*, University of Leeds; Alison Heppenstall, University of Leeds, *Simulation as the Catalyst for Geographical Data Science and Urban Policy Making.*

**4:20** Alyson Lloyd\*, University College London; James Cheshire, UCL, *Challenges of Big Data for Social Science: Addressing Uncertainty in Loyalty Card Data.*

Discussant(s): Marynia Aniela Kolak, Arizona State University

## 2526. China Specialty Group Keynote Session: Peter Bol "Towards a Spatial Analysis of China, Present and Past" (Sponsored by China Specialty Group)

Room: Room 306, Hynes, Third Level (Panel Session)

ORGANIZER(S): Enru Wang, University of North Dakota; Yu Zhou, Vassar College

CHAIR(S): Enru Wang, University of North Dakota

Introducer: Enru Wang

Discussant(s): Daniel Z. Sui, The Ohio State University

Panelists: Peter Bol, Harvard University

## 2527. The Arctic: then and now - Session 3 dedicated to H. Jesse Walker (1921 -2015)3 (Sponsored by Cryosphere Specialty Group, Polar Geography Specialty Group)

Room: Room 307, Hynes, Third Level (Paper Session)

ORGANIZER(S): Molly McGraw, Southeastern Louisiana University; Jerry Brown; Frederick E. Nelson, Michigan State University

CHAIR(S): Molly McGraw, Southeastern Louisiana University

**3:20** Karen E Frey, Ph.D.\*, Clark University; Bonnie Light, Ph.D., University of Washington, *Light transmittance through melt-ponded sea ice in the Chukchi and Beaufort Seas of the Pacific Arctic Region.*



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**3:40** Narmina Iusubova\*, University of Northern Iowa, *Wind energy resources and suitability in the Russian Arctic.*

**4:00** Melishia I. Santiago\*, Clark University; Karen E. Frey, Clark University; Jacqueline Grebmeier, University of Maryland Center for Environmental Sciences; Lee W. Cooper, University of Maryland Center for Environmental Sciences; Francois Guillemette, Florida State University; Robert Spencer, Florida State University, *Quantifying the distribution of chromophoric dissolved organic matter (CDOM) and fluorescent dissolved organic matter (FDOM) in the Pacific Arctic Region.*

**4:20** Edwin Stetson Clarke, P.E.\*, Retired, *Scenario for Offshore Oil Development, Smith Bay, Northern Alaska.*

**2528. Film and panel: "Guardians of Eternity: Confronting Giant Mine's toxic legacy" (Sponsored by Cultural and Political Ecology Specialty Group, Historical Geography Specialty Group)**

**Room:** Room 308, Hynes, Third Level (Panel Session)

ORGANIZER(S): Arn Keeling, Memorial University of Newfoundland

CHAIR(S): Arn Keeling, Memorial University of Newfoundland

Panelists: Arn Keeling, Memorial University of Newfoundland; Laura Pitkanen; Dawn Aurea Beth Hoogeteen, University of British Columbia

**2529. Coastal and Marine Geography Issues and Science (Sponsored by Coastal and Marine Specialty Group, Animal Geography Specialty Group, Geomorphology Specialty Group)**

**Room:** Room 309, Hynes, Third Level (Illustrated Paper Session)

ORGANIZER(S): Jennifer L. Rahn, Samford University

CHAIR(S): Jennifer L. Rahn, Samford University

**3:20** Phillip P. Schmutz\*, University of West Florida; Izabella Foreman, University of West Florida, *Lagging Behind: Management Practices to Remove Non-native Gravel Within a Coastal Dune System.*

**3:30** Holly A. Porter-Morgan, Ph.D.\*, The City University of New York; Jesse Miller, Hunter College, CUNY; Thomas Calella, LaGuardia Community College, CUNY, *Citizen Science and Enterococci: Investigating the Contributing Factors of Water Quality in New York City.*

**3:38** Anam Khan\*, Geographic Information Science for Development and Environment (GISDE), Clark University, 950 Main Street Worcester, MA 01610, USA; John Rogan, Graduate School of Geography, Clark University, 950 Main Street Worcester, MA 01610, USA; Deborah Lawrence, Department of Environmental Sciences, The University of Virginia, 291 McCormick Road, Charlottesville, VA 22904; Laura Schneider, Department of Geography, Rutgers University, 54 Joyce Kilmer Avenue Piscataway, NJ 08854, *Identifying Regional Scale Differential Hurricane Damage to Tropical Forests in the Southern Yucatán Peninsula Using MODIS Imagery.*

**3:46** Frederick B. Chambers, University of Colorado at Denver; Steve Gordon\*, US Air Force Academy, *Observations of vertical heat flux in basalt, Hawaii Volcanoes National Park, Hawaii, USA.*

**3:54** Carl Green\*, Texas A&M University; Andrew G Klein, PhD, Texas A&M University; David Cairns, PhD, Texas A&M University, *NDVI Greening of Recently Deglaciated Land in Kenai Fjords National Park.*

**4:02** Heidi J. L. Lannon\*, Santa Fe College, *The Geoscience Engagement and Outreach program - recruitment, retention, and results from the first cohort of students underrepresented in Geosciences.*

**4:10** Johan Liebens\*, University of West Florida; Mitchell McMillan, University of West Florida, *Evaluation of a model for rapid assessment of streambank erosion on*

*the northern Gulf of Mexico coastal plain.*

**4:18** Jennifer L. Rahn\*, Samford University, *Cultivating Corals: Creativity and Caring in the Caribbean, Year One Results of Coral Nursery Implementation on Saba, Dutch Caribbean.*

**2530. Practicing Citizenship IV: Complex Performances, Complex Politics (Sponsored by Political Geography Specialty Group)**

**Room:** Room 310, Hynes, Third Level (Paper Session)

ORGANIZER(S): Lynn Staeheli; David Jones Marshall, Durham University

CHAIR(S): Lynn Staeheli

**3:20** Vanja Celebic\*, University of Durham, *Dissent through satire: challenging practices of citizenship in Bosnia and Herzegovina.*

**3:40** Dino Kadich, University of Arizona, *Grassroots Cosmopolitanism? Sarajevo's hip-hop culture and the politics of post-conflict urban change.*

**4:00** Mark Davidson, Clark University, *Citizenship in Post-Political Crisis.*

**4:20** Jyoti Gupta\*, Vanderbilt University, *'Official creativity' as the new citizenship.*

**2531. 2017 AAG Physical Geography Symposium Session 5: Climate Histories and Paleoecologies (Sponsored by Paleoenvironmental Change Specialty Group, Climate Specialty Group, Geographies of Bread and Water in the 21st Century Featured Theme, Biogeography Specialty Group)**

**Room:** Room 311, Hynes, Third Level (Paper Session)

ORGANIZER(S): Timothy Beach, University of Texas at Austin; Kenneth R. Young, University of Texas at Austin; Tripti Bhattacharya

CHAIR(S): Richard A. Marston, Kansas State University

**3:20** James L. Wescoat\*, MIT, *Mughal, Maratha, Colonial and Modern: The Historical Geography of Water Planning in Maharashtra, 1590-1990.*

**3:40** Amy Hessl\*, West Virginia University, *Paleoclimate and the Last 2000 Years of Human History in Arid Central Asia.*

**4:00** Cary J. Mock\*, University of South Carolina, *Historical Climatology, Paleoclimatology, Extreme Events, and Society.*

**4:20** Kevin John Anchukaitis\*, University of Arizona - Geography & Development; Jed Kaplan, Institute of Earth Surface Dynamics, University of Lausanne, Switzerland; Benjamin Cook, NASA Goddard Institute for Space Studies, New York, NY; Dan Penny, School of Geosciences, The University of Sydney, NSW, Australia, *Climate variability, societal change, and emergent behavior at Greater Angkor, Cambodia.*

Introducer: Tripti Bhattacharya

**2532. Society and Space Plenary Lecture: Geraldine Pratt, "Tlingipino Bingo! Ethnographic Performance and Games of Chance in the Decolonizing Present"**

**Room:** Room 312, Hynes, Third Level (Paper Session)

ORGANIZER(S): Natalie Oswin, McGill University; Alex Vasudevan; Lauren Martin, Durham University

CHAIR(S): Natalie Oswin, McGill University

**3:20** Geraldine J. Pratt\*, University Of British Columbia; Caleb Johnston, Newcastle University, *Tlingipino Bingo! Ethnographic Performance and Games of Chance in the Decolonizing Present.*

**2533. The Experimental City: Critical Reflections on Urban Innovation**

**Room:** Room 313, Hynes, Third Level (Panel Session)

ORGANIZER(S): Andrew Karvonen, University of Manchester

CHAIR(S): Andrew Karvonen, University of Manchester

Panelists: SIMON MARVIN, University of Sheffield; Rob Raven, Utrecht University; Gabriele Schliwa, The University of Manchester; Sofia Shwayri



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*Room:* Independence East, Sheraton, Second Floor (Panel Session)  
 ORGANIZER(S): Hengchun Ye, California State University - Los Angeles  
 CHAIR(S): Hengchun Ye, California State University - Los Angeles

**2539. Uncertainty and spatial autocorrelation (Sponsored by Spatial Analysis and Modeling Specialty Group, Association of American Geographers, Uncertainty and Context in Geography and GIScience Featured Theme)**

*Room:* Independence West, Sheraton, Second Floor (Paper Session)  
 ORGANIZER(S): Daniel A. Griffith, U. of Texas at Dallas; Yongwan Chun, The University of Texas at Dallas  
 CHAIR(S): Daniel A. Griffith, U. of Texas at Dallas  
**3:20** Hyeongmo Koo\*, University of Texas at Dallas; Yongwan Chun, University of Texas at Dallas; Daniel A. Griffith, University of Texas at Dallas, *Visualization and Modeling of Spatial Data Quality*.  
**3:40** Daniel A. Griffith, University of Texas at Dallas; Nicholas P. Taliceo\*, University of Texas At Dallas, *Uncertainty Propagated through the Jacobian Term of an Auto-Normal Model*.  
**4:00** Sang-Il Lee\*, Seoul National University and University of Texas at Dallas, *Correlation and spatial autocorrelation: specification uncertainty*.  
**4:20** Lan Hu\*, University of Texas at Dallas; Yongwan Chun, University of Texas at Dallas; Daniel A. Griffith, University of Texas at Dallas, *A spatial analysis of breast cancer incidences in Duval County, FL: model specification issues*.  
**4:40** Yongwan Chun\*, The University of Texas at Dallas; Daniel A. Griffith, PhD, University of Texas at Dallas, *Uncertainty and the presence of negative spatial autocorrelation in georeferenced data*.

**2540. Exploring uncertainties in modelling (Sponsored by Uncertainty and Context in Geography and GIScience Featured Theme)**

*Room:* Liberty B, Sheraton, Second Floor (Paper Session)  
 ORGANIZER(S): Uncertainty and Context Theme  
 CHAIR(S): Pushpendra Rana, University of Illinois  
**3:20** Jake Nelson\*, Arizona State University; Tony Grubestic, PhD, Arizona State University, *Current State of the Art in Oil Spill Modeling and Impact Analysis*.  
**3:40** Shengchen Du\*, Hong Kong Baptist University, *Social Capital, Institutional Constraints, and Employment Inequality: Evidence from Well-Educated Migrants in Urban China*.  
**4:00** Georgios Sarlas\*, ETH Zurich, Institute for Transport Planning & Systems; Kay W. Axhausen, ETH Zürich, Institute for Transport Planning & Systems, *A direct demand modeling framework for traffic volume and speed prediction*.  
**4:20** Melissa Suki Kimble, MSc\*, University of the Virgin Islands; Jim Graham, PhD, Humboldt State University, *Mapping Uncertainty of Habitat Suitability Models of Four North American Tree Species*.  
**4:40** Pushpendra Rana\*, University of Illinois; Mei-Po Kwan, University of Illinois at Urbana-Champaign, *Forest management and geographic scales: Understanding the spatial and temporal drivers of entrepreneurship in smallholder forestry*.

**2541. Foreign Direct Investment Trends and Challenges: Technological Innovation, Employment, and Development (Sponsored by Regional Development and Planning Specialty Group, Economic Geography Specialty Group, Business Geography Specialty Group)**

*Room:* Liberty C, Sheraton, Second Floor (Panel Session)

ORGANIZER(S): Hao Huang, Illinois Institute of Technology  
 CHAIR(S): Hao Huang, Illinois Institute of Technology  
 Introducer: Hao Huang

Panelists: Petr Pavlinek, University Of Nebraska at Omaha; Jung Won Sonn, University College London; Riccardo Crescenzi, London School of Economics; Hao Huang, Illinois Institute of Technology; Anthony Laveault-Frigon, HEC Montreal

**2542. Economic Geography IX - Novelty, Access, Diffusion and Networks in Regional and Sectoral Development (Sponsored by Economic Geography Specialty Group)**

*Room:* Back Bay Ballroom A, Sheraton, Second Floor (Paper Session)  
 ORGANIZER(S): Dieter Franz Kogler, University College Dublin; Jennifer Clark, Georgia Institute of Technology; Thomas Kemeny, University of Southampton  
 CHAIR(S): Jennifer Clark, Georgia Institute of Technology  
**3:20** Peter Kedron\*, Oklahoma State University; Dieter Kogler, University College Dublin, *The Spatial Diffusion of Innovation in Renewable Energy: The Effects of Proximity of Biofuel Patenting*.  
**3:40** Tamás Sebestyén\*, MTA-PTE Innovation and Economic Growth Research Group; Attila Varga, University of Pécs, *Knowledge networks in regional development: An agent-based model and its application*.  
**4:00** Giuseppe Calignano\*, UiS Business School - University of Stavanger; Rune Dahl Fitjar, UiS Business School - University of Stavanger; Dieter Franz Kogler, School of Geography Planning Environmental Policy - University College Dublin, *Firm networks and knowledge production in a southern Italian aerospace district*.  
**4:20** Neil Lee, London School of Economics and Political Science; Davide Luca\*, Harvard University, *The big-city bias in credit markets: Evidence from firm perception's in 100 countries*.  
**4:40** Teresa Farinha Fernandes\*, Utrecht University; Miguel Amaral, IN+ Center for Innovation, Technology and Policy Research, Lisboa University; Nuno Ferreira, IN+ Center for Innovation, Technology and Policy Research, Lisboa University; Pierre-Alexandre Balland, Utrecht University; Andrea Morrison, Utrecht University, *Jobs relatedness and employment structure renewal in the Aeronautics*.

**2544. Territory, Politics, Governance - Annual Lecture (Sponsored by Routledge)**

*Room:* Constitution A, Sheraton, Second Floor (Panel Session)  
 ORGANIZER(S): Dieter Franz Kogler, University College Dublin  
 CHAIR(S): Martin Jones, University of Sheffield  
 Introducer: Martin Jones  
 Discussant(s): David Wachsmuth, McGill University  
 Panelists: Maarten Hajer, Utrecht University

**2545. The Media and Conflict: Media and Communication Geography Session III (Sponsored by Communication Geography Specialty Group)**

*Room:* Constitution B, Sheraton, Second Floor (Paper Session)  
 ORGANIZER(S): Emily Fekete, Oklahoma State University  
 CHAIR(S): Sara McDowell, University of Ulster  
**3:20** Eva Kaján\*, University of Oulu, Finland, *From fear to hate: Media as an instrument of hate speech inside Darknet*.  
**3:40** SOPHIE LOUARGANT\*, Grenoble University Alps - Pacte Cnrs Lab, *Borders, Media and europeanization in local project*.  
**4:00** Anjali Fahlberg\*, Northeastern University; Navarjun Grewal, Northeastern University; Dietmar Offenhuber, Northeastern University; Thomas Vicino, Northeastern University, *Utilizing Social Media to Study Conflict Zones: Towards a Multi-Pronged Research Approach*.

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## 2548. Sacrifice Zones 2: Theoretical Framing & Critical Interrogation (Sponsored by Political Geography Specialty Group, Cultural and Political Ecology Specialty Group, Energy and Environment Specialty Group)

**Room:** *Beacon D, Sheraton, Third Floor* (Panel Session)  
 ORGANIZER(S): Alec Brownlow, DePaul University; Siri Veland, Brown University  
 CHAIR(S): Alec Brownlow, DePaul University  
 Panelists: Simon Dalby, Balsillie School of International Affairs; Matt Huber, Syracuse University; Don Mitchell, Syracuse University; Brian Nail, Florida State College at Jacksonville

## 2549. The global politics and economies of climate services II (Sponsored by Cultural and Political Ecology Specialty Group, Human Dimensions of Global Change Specialty Group)

**Room:** *Beacon E, Sheraton, Third Floor* (Paper Session)  
 ORGANIZER(S): Christina Greene; Sophie Webber, UCLA; Gigi Owen, University of Arizona  
 CHAIR(S): Andrea K. Gerlak, University of Arizona  
 3:20 Sophie Haines, PhD\*, University of Oxford, *Forecasting Futures: Uncertainty and Accountability in Weather/Climate Prediction for Resource and Hazard Management*.  
 3:40 Zack Guido, Dr., University of Arizona; Timothy Finan, Dr., University of Arizona; Kevon Rhiney, Dr., Rutgers University, *Information Access for Small Farmers in Jamaica's Coffee Sector: Hurdles for Climate Services*.  
 4:00 Gigi Owen\*, University of Arizona, *Measuring Outcomes and Impacts of Climate Services and Co-produced Climate Knowledge in the U.S. Southwest*.  
 4:20 Eric Nost\*, University of Wisconsin-Madison, *Accommodation and resistance: Data politics in Louisiana's coastal Master Plan*.  
 4:40 Maria Paula Escobar Tello\*, King's College London; David Demeritt, King's College London, *Looping Effects in the Provision of "Impact-Based" Warnings and Climate Services*.

## 2550. Health, Poverty, and Place in Ghana III (Sponsored by Population Specialty Group, Africa Specialty Group, Health and Medical Geography Specialty Group)

**Room:** *Beacon F, Sheraton, Third Floor* (Paper Session)  
 ORGANIZER(S): Justin Stoler, University of Miami; John R. Weeks, San Diego State University  
 CHAIR(S): Raymond Asare Tutu, Delaware State University  
 3:20 Emmanuel Abeashi Mensah\*, University of Cape Coast; Lincoln Tei Nyade\*, University of Ghana, *Accessibility To Emergency Health Care In The Cape Coast Metropolis Of Ghana*.  
 3:40 Ayodeji Emmanuel Iyanda\*, University of North Texas, *Knowledge evaluation and implication of contraceptive use among adolescent and young women in Ghana: A district level Analysis*.  
 4:00 Jemima Nomunume Baada\*, University of Western Ontario; Bipasha Baruah, University of Western Ontario; Isaac Luginaah, University of Western Ontario, *The Strangers We Are: Migrant Women Farmers' Lived Experiences in the Brong-Ahafo Region of Ghana*.  
 4:20 Akwasi Kumi-Kyereme, Associate Professor\*, University of Cape Coast, *Views of Health Care Providers on Appropriate Interventions to curb Unsafe Abortion in Ghana*.  
 4:40 Raymond Asare Tutu\*, Delaware State University; Edmund Ameyaw, MPhil, Howard University, *Socio-Demographic Attributes, Lifestyle, and Objective Health Assessment in Ghana*.

## 2553. Urban forms in the Global South II: The state, the city and the production of social difference (Sponsored by Urban Geography Specialty Group, Cultural Geography Specialty Group)

**Room:** *Dalton A, Sheraton, Third Floor* (Paper Session)  
 ORGANIZER(S): Yang Yang, University of Colorado At Boulder; Caitlin Ryan, University of Colorado At Boulder  
 CHAIR(S): Yang Yang, University of Colorado At Boulder  
 3:20 Jessica Wilczak\*, University of Toronto, *"Clean, safe, and orderly": managing difference in global Guangzhou*.  
 3:40 Oscar Sosa Lopez\*, UC Berkeley, *Green Urbanism, Publics, Difference: The Politics of Sustainable Mobility in Mexico City*.  
 4:00 Youssef Henein\*, Université du Québec à Montréal; Thi-Thanh-Hiên PHAM, Université du Québec à Montréal; Sarah Turner, McGill University, *Ordinary cities in Vietnam: a small city gets a rapid makeover in the Sino-Vietnamese borderlands*.  
 4:20 Samuel Kay\*, Ohio State University, *Conceptualizing environmental inequality and social difference through Chinese urbanization*.  
 Discussant(s): Diganta Das, Nanyang Technological University

## 2555. Food sharing: contemporary cultures, practices and economies IV (Sponsored by Geographies of Food and Agriculture Specialty Group, Economic Geography Specialty Group)

**Room:** *Hampton A, Sheraton, Third Floor* (Panel Session)  
 ORGANIZER(S): Oona Morrow, Trinity College Dublin; Anna Davies, Trinity College Dublin  
 CHAIR(S): Anna Davies, Trinity College Dublin  
 Introducer: Oona Morrow  
 Panelists: Penn Loh, Tufts University; Jane Midgley, Newcastle University; Amy Jarvis, Leage of Urban Cannors; Margaret Connors, City Growers; Sasha Purpura, Food for Free; Duck Caldwell, Boston Area Gleaners

## 2556. Urban Spaces and Spatial Fixes (Sponsored by Eurasian Specialty Group, Political Geography Specialty Group, Urban Geography Specialty Group)

**Room:** *Hampton B, Sheraton, Third Floor* (Paper Session)  
 ORGANIZER(S): Jeremy Tasch, Towson University  
 CHAIR(S): Jeremy Tasch, Towson University  
 3:20 Aysegul Ozbakir\*, Assoc. Prof.; Isil Erol, Assoc. Prof., *A Critical Discussion on the "Urban Innovation Ecosystem" in the Information Age: Position of Turkey*.  
 3:40 Mike Kohout\*, California State University, San Bernardino; Jan Kopp, University of West Bohemia, *The function of green spaces in European cities*.  
 4:00 Carrie Mitchell\*, University of Waterloo; Katherine Laycock, University of Waterloo, *Beyond More And Better Information: The Scalar Politics Of Planning For Adaptation In Asian Cities*.  
 4:20 Zoltan Kovacs\*, University of Szeged; Rezso Meszaros, University of Szeged, *Ecological and socio-economic effects of urban sprawl in the metropolitan area of Budapest*.

## 2557. Organization and Culture in Cross-border Investments

**Room:** *Gardner A, Sheraton, Third Floor* (Paper Session)  
 ORGANIZER(S): Martina Fuchs, University of Cologne, Faculty of Management, Economics and Social Sciences; Ram Mudambi, Temple University  
 CHAIR(S): Ram Mudambi, Temple University  
 3:20 Sebastian Henn\*, University of Jena, *Othoring Foreign Direct Investments in the Media. How Chinese Investors are Constructed as Deviants in German Dailies*.  
 3:40 Ekaterina Turkina\*, HEC Montreal, *Global Value Chains and Local Cluster Specialization: Evidence from the Aerospace Industry*.  
 4:00 Heidi Aslesen, Norwegian Business School; Ju Liu, Malmö University College; Elena Zukauskaite\*, Circle,

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Lund University, *Global Knowledge Exchange in Scandinavia and China: On the role of institutions and organizations.*

- 4:20** Päivi Oinas\*, University of Turku, Turku School of Economics; Erja Kettunen-Matilainen, University of Turku, Turku School of Economics, *Realities Of Responsible Business - Structural And Institutional Conditions In MNE? Local Government Bargaining.*  
Discussant(s): Ram Mudambi, Temple University; Martina Fuchs, University of Cologne, Faculty of Management, Economics and Social Sciences

**2558. Reconstructing Urban Natures Session 4: Green Infrastructure and the Dilemma of Resilience**

*Room:* Gardner B, Sheraton, Third Floor (Paper Session)  
ORGANIZER(S): Damian Finbar White, RISD

- 3:20** M. Antonieta Castro-Cosio, PhD\*, MDRC, *"Social-Ecological Resilience in Urban Communities: The Effect of Greening on the Social Capital of an Urban Community".*  
**3:40** Nadia Mian, PhD\*, New York University - Tandon School of Engineering, *Politics of Resiliency Planning.*  
**4:00** Katherine Lieberknecht\*, The University of Texas at Austin, *Political, economic and ecological drivers of urban green infrastructure: case studies from Austin and San Antonio, Texas.*  
**4:20** Greet De Block\*, University of Antwerp, *The (post-)politics of resilient design. The dark side of ecology.*  
Discussant(s): Scott Kellogg

**2559. The Urban Politics of Policy Failure IV: The Nature of 'Failure'**

*Room:* Fairfax A, Sheraton, Third Floor (Paper Session)

- ORGANIZER(S): John Lauermann, Texas A&M University; Cristina Temenos, University of Manchester - Manchester  
CHAIR(S): Cristina Temenos, University of Manchester - Manchester  
**3:20** John Lauermann\*, Texas A&M University; Anne Vogelpohl, University of Hamburg, *Failure as political strategy: Unsuccessful Olympic bids in Boston and Hamburg.*  
**3:40** Friederike Landau, M.A., Center for Metropolitan Studies, Berlin; Friederike Landau\*, Doctoral Researcher, *Policy Failure As Conflictual Consensus: An Agonistic Approach to Cultural Policymaking in Berlin.*  
**4:00** Nanja Christina Nagorny\*, Goethe University Frankfurt/M, Germany, *"Best Practice doesn't know failure!"*.  
**4:20** Kevin Ward\*, University of Manchester, *Troubling failure in the making-up of urban policy.*  
Discussant(s): Allan Douglas Cochrane, Open University

**2560. Speed-Dating with an NSF Program Officer - 1 (Sponsored by AAG Careers and Professional Development Theme)**

*Room:* Fairfax B, Sheraton, Third Floor (Panel Session)

- ORGANIZER(S): Antoinette WinklerPrins, National Science Foundation  
CHAIR(S): Thomas J. Baerwald, National Science Foundation  
Introducer: Antoinette WinklerPrins  
Discussant(s): Thomas J. Baerwald, National Science Foundation; Sunil Narumalani, National Science Foundation; Holly M. Hapke, National Science Foundation; Cheryl Eavey, National Science Foundation

**2561. Author Meets Critics - Kimberley Kinder, DIY Detroit: Making Do in a City Without Services (Sponsored by Urban Geography Specialty Group)**

*Room:* Jefferson, Sheraton, Third Floor (Panel Session)  
ORGANIZER(S): Sarah E. Knuth, University of Michigan  
CHAIR(S): Sarah E. Knuth, University of Michigan  
Introducer: Sarah E. Knuth  
Discussant(s): Kimberley Kinder, University of Michigan

Panelists: Melissa Fernandez, Rutgers University; John Stehlin, University of California, Berkeley; Catherine Guimond, San Francisco Art Institute; Rachel Brahinsky, University of San Francisco; Nabil Kamel, Western Washington University

**2562. Methods and Approaches for Representing the Political Dimensions of Urban Resilience 2 (Sponsored by Cultural and Political Ecology Specialty Group, Human Dimensions of Global Change Specialty Group)**

*Room:* Kent, Sheraton, Third Floor (Paper Session)

- ORGANIZER(S): David Manuel-Navarrete, Arizona State University; Amy M. Lerner, Universidad Nacional Autónoma de México; Hallie Eakin, Arizona State University  
CHAIR(S): David Manuel-Navarrete, Arizona State University  
**3:20** Yaella Depietri, Dr.\*, Urban Ecology Lab, Environmental Studies Program, The New School, 79 Fifth Avenue, 16th Fl., New York, NY 10003, USA; Timon McPhearson, Dr., Urban Ecology Lab, Environmental Studies Program, The New School, 79 Fifth Avenue, 16th Fl., New York, NY 10003, USA; Khila Dahal, Dr., Urban Ecology Lab, Environmental Studies Program, The New School, 79 Fifth Avenue, 16th Fl., New York, NY 10003, USA, *Multi-hazard risk assessment in a coastal megacity: Identifying hotspots for ecosystem based adaptation in New York City.*  
**3:40** Khai Hoan N. Nguyen\*, Rutgers University, *Governing Climate Justice in New York City.*  
**4:00** Amy M. Lerner\*, Universidad Nacional Autónoma de México; Beatriz Ruizpalacios, Universidad Nacional Autónoma de México; Alejandra Martínez Canedo, Universidad Nacional Autónoma de México; J. Mario Siqueiros, Universidad Nacional Autónoma de México; David Manuel-Navarrete, Arizona State University; Hallie Eakin, Arizona State University; Marisa Mazari, Universidad Nacional Autónoma de México, *Understanding urban resilience in an evolving socio-ecological system: Thresholds of change in Xochimilco, Mexico City.*  
**4:20** David Manuel-Navarrete\*, Arizona State University; J. Mario Siqueiros-García, UNAM, *The Cognitive Dimension of Socio-Political Infrastructure: Mental models analysis of a social-hydrological system in Mexico City.*  
Discussant(s): Hallie Eakin, Arizona State University

**2563. Visual Relational Poverty Politics (Sponsored by Geographic Perspectives on Women Specialty Group, Urban Geography Specialty Group, Socialist and Critical Geography Specialty Group)**

*Room:* Commonwealth, Sheraton, Third Floor (Paper Session)

- ORGANIZER(S): Sarah Elwood, University of Washington; Victoria A. Lawson, University of Washington  
CHAIR(S): Sarah Elwood, University of Washington  
**3:20** Margaret Marietta Ramirez\*, University of Washington, Seattle, *'Art isn't luxury - it's necessity': decolonial art-activism in Oakland.*  
**3:40** Michele Lancione\*, *Video-ethnography and research-activism at the urban margins.*  
**4:00** Rhoda Rosen\*, School of the Art Institute, *House.*  
**4:20** Sarah Elwood, University of Washington; Victoria Lawson, University of Washington, *The Sweepers and the Swept: Visual Poverty Politics in Seattle.*  
Discussant(s): Gillian C. Rose, The Open University

**2564. William Bunge (1928-2013) and Geography: IV (Sponsored by History of Geography Specialty Group)**

*Room:* Boylston, Marriott, First Floor (Panel Session)

- ORGANIZER(S): Luke R. Bergmann, University of Washington; Clark Akatiff



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CHAIR(S): Luke R. Bergmann, University of Washington  
 Introducer: Alan George Hallsworth  
 Discussant(s): Audrey L. Kobayashi, Queen's University; Stuart Lane, Université de Lausanne  
 Panelists: Stuart C. Aitken, San Diego State University; Chris Knudson, University of Arizona; Clark Akatiff

## 2565. Time Series Analysis of Satellite Images (IV) (Sponsored by Remote Sensing Specialty Group)

Room: Tremont, Marriott, First Floor (Paper Session)

ORGANIZER(S): Qihao Weng, Indiana State University  
 CHAIR(S): Lei Ji, ASRC InuTeq

3:20 Valerie J. Pasquarella, PhD\*, University of Massachusetts - Amherst; Christopher E. Holden, Boston University; Curtis E. Woodcock, PhD, Boston University, *Improved mapping of forest composition using spectral-temporal Landsat features.*

3:40 Caroline A. Curtis\*, UMass Amherst; Bethany A Bradley, University of Massachusetts, *Using time series of remotely sensed imagery to quantify pine invasion.*

4:00 Hung Quang Ha\*, Indiana State University, *Impervious Surface Mapping for The Extended Hanoi Area, Vietnam from Time Series Analysis of Landsat Data (1988 - 2016 period), and Their Potential Use in Redilention of Urban Flood and Monitoring.*

4:20 Aman Arora, Research Scholar\*, Department of Geography, Faculty of Natural Sciences, Jamia Milia Islamia, New Delhi- 110025, India; Masood Ahsan Siddiqui, Professor and Head, Department of Geography, Faculty of Natural Sciences, Jamia Milia Islamia, New Delhi-110025, India; Manish Kumar Pandey, Research Associate, School of Environmental Sciences, Jawaharlal Nehru University, New Delhi-110067, India; Atiqua Tajdar, Research Scholar, Department of Geography, Faculty of Natural Sciences, Jamia Milia Islamia, New Delhi-110025, India; Anushree Nagpal, Research Scholar, Department of Geography, Faculty of Natural Sciences, Jamia Milia Islamia, New Delhi-110025, India, *Spatiotemporal study of vegetation cover, precipitation and land surface temperature using Remote Sensing and Python in Middle Ganga Plain, India.*

4:40 Lei Ji\*, ASRC InuTeq; Jesslyn F Brown, USGS EROS Center, *Effect of NOAA satellite orbital drift on AVHRR-derived phenological metrics.*

## 2566. Place-based urban activism in the midst of neoliberal governance regimes II (Sponsored by Urban Geography Specialty Group, Ethics, Justice, and Human Rights Specialty Group)

Room: Columbus 1, Marriott, First Floor (Paper Session)

ORGANIZER(S): Zsuzsa Kovacs, Vrije Universiteit Amsterdam  
 CHAIR(S): Alexandra Nadeau, INRS

3:20 Vladimir Mikadze\*, McGill University, *Renegotiating Representations of Space: Guerrilla Gardening in Montréal, Canada.*

3:40 Alexandra Nadeau\*, INRS, *Low urban carbon citizens initiative: the case of Montreal.*

4:00 Sukanya Krishnamurthy, Dr.\*, Eindhoven University of Technology; Loes Veldpaus, Dr, Newcastle University, *Data, reality, and citizen participation.*

4:20 Nathan Marom, Dr.\*, Interdisciplinary Center Herzliya, *Urban Strategies and Spaces of Speculation and Suspension in Mumbai and Cape Town.*

4:40 Maura McGee\*, CUNY - Graduate Center, *"Diversification" of an African Neighborhood in Paris: Local Responses to City-Led Gentrification in an Immigrant Neighborhood.*

## 2567. Mega Event Planning: The Contested Spaces of the Olympics, World Cup and World's Fairs II

Room: Columbus 2, Marriott, First Floor (Paper Session)

ORGANIZER(S): Mark I. Wilson, Michigan State University; John Lauermann, Texas A&M University

CHAIR(S): Eva Kassens-Noor, MSU

Introducer: Eva Kassens-Noor

3:25 Scott Salmon\*, New School University, *Rio 2016: 'Legacy Games' or the New Model for an Austerity Olympics?.*

3:44 Robert Oliver\*, Virginia Tech, *Mega Event Development in Toronto: From Contentious to Consensus Politics.*

4:03 Lewis Bellas\*, Virginia Tech; Robert Oliver, Virginia Tech; John Lauermann, Texas A&M University, *Questioning the urban development legacy of Megaevent bidding: Interrogating the rescaling of 'failure'.*

4:22 Rachel Dodds, Professor\*, Ted Rogers School of Hospitality and Tourism Management, Ryerson University, *Green or garbage: impacts and challenges of making festivals more sustainable.*

4:41 Corinna Morandi\*, Politecnico di Milano, *Culture-led minor events: just a way to increase attractiveness or a long lasting perspective for cities' agendas?.*

## 2569. City Economic Evolutions: Demographic Factors and the Role of Planning (Sponsored by Economic Geography Specialty Group)

Room: Regis, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Emil Evenhuis, University of Cambridge; Ben Gardiner, University of Cambridge; Peter Tyler, University of Cambridge

CHAIR(S): Ben Gardiner, University of Cambridge

3:20 Rachel S. Franklin\*, Brown University; Sharmistha Bagchi-Sen, University at Buffalo, *Placing People: Examining the Role of Demographic Factors in Urban Development and Change.*

3:38 John R. Bryson\*, University of Birmingham, *Air Rights, Ground Rights and Verticality: Land, Tenure and the Economic Evolution of Cities.*

3:56 Xiangming Chen\*, Trinity College; Xinyi Liu, Trinity College, *From Explosion to Evolution? The Rapid Growth and Uncertain Future of a New Satellite City in an Emerging Mega-Region in China.*

4:14 Zhenshan Yang\*, Institute of Geographical Sciences at Chinese Academy of Sciences; Michael Dunford, School of Global Studies, University of Sussex, Falmer, Brighton BN1 9QN, *Shrinking Cities in China: Preliminary Analysis of Scalar Processes of Population Shrinkage and Implications.*

4:32 Kirsten Martinus, Dr\*, The University of Western Australia, *Evolution and Structural Change in a Resource Production System: Long Distance Commuting, Population Growth and the Redistribution of Western Australia Resource Wealth.*

Discussant(s): Peter Tyler, University of Cambridge

## 2570. Fusion of Geospatial Big Data (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group, Remote Sensing Specialty Group)

Room: Northeastern, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Aiman Soliman, NCSA University of Illinois Urbana-Champaign; Shaowen Wang, University of Illinois at Urbana-Champaign

CHAIR(S): Aiman Soliman, NCSA University of Illinois Urbana-Champaign

3:20 Boyang Liu\*, University at Buffalo; Anusha Sharma Kasturi, University at Buffalo; Jared Aldstadt, University at Buffalo, *Predictive models of gun violence with environmental and social-media-derived covariates.*

3:40 Kevin Sparks\*, Oak Ridge National Laboratory; Gautam Thakur, Oak Ridge National Laboratory; Robert Stewart, Oak Ridge National Laboratory; Marie Urban, Oak Ridge National Laboratory, *Comparing Social-media Users' Facility Visitation Patterns.*



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- 4:00** Aiman Soliman\*, National Center for Supercomputing Applications, University of Illinois Urbana-Champaign; Kiumars Soltani, Illinois Informatics Institute, University of Illinois Urbana-Champaign; Andrew Greenlee, Department of Urban and Regional Planning, University of Illinois Urbana-Champaign; Shaowen Wang, National Center for Supercomputing Applications, University of Illinois Urbana-Champaign, *UrbanFlow: A cyberGIS-enabled platform for urban network research.*

- 4:20** Michael Ann Lane\*, Hexagon Geospatial, *No need to reinvent the wheel. Recycle your existing geospatial models to create a Hexagon Smart M.App of the Future!.*

## **2571. Placing the Politics of Skill II (Sponsored by Economic Geography Specialty Group)**

**Room:** Brandeis, Marriott, Third Floor (Panel Session)

ORGANIZER(S): Natasha Iskander, New York University; Nichola Lowe, University of North Carolina-Chapel Hill

CHAIR(S): Natasha Iskander, New York University

Introducer: Nichola Lowe

Discussant(s): Natasha Iskander, New York University

Panelists: Michael Piore, MIT; Paul Osterman; Helen Lawton Smith, Birkbeck University of London; Marc Doussard, University of Illinois at Chicago

## **2572. Health, Hazards, and Policy**

**Room:** MIT, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): K. H. Abaalzamat, Qatar University

- 3:20** Khalid H. Abaalzamat, Dr.\*, Qatar University, *The Health center in Alrayyan area in the state of Qatar between 2000-2010: A historical study.*

- 3:40** Gwen D'Arcangelis\*, Skidmore College, *The expanded terrain of U.S. bio-imperialism: pandemic preparedness, disease informatics, and germ resources.*

- 4:00** Naomi Watsala Lazarus, PhD\*, Binghamton University, *Evaluating the Hazard Potential of Vector-Borne Diseases: A Case Study of the Dengue Epidemic in Sri Lanka.*

- 4:20** Matlhogonolo Bene\*, Michigan State University; Michael Kwesi Darkoh, Prof, University of Botswana, *HIV in Thamaga and surrounding villages, Botswana.*

- 4:40** Kyle Thomas Evered, PhD\*, Michigan State University; Emine Onhan Evered, PhD, Michigan State University, *Accounting for ideology in the therapeutic landscape: assessing the curative waters of Kemalism.*

## **2573. Energy Transitions II (Sponsored by Energy and Environment Specialty Group)**

**Room:** Boston University, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Michael Minn, Eastern Washington University

CHAIR(S): Michael Minn, Eastern Washington University

- 3:20** Magdalena Falde\*, Linköping University, *Sustainable technologies as local place branding.*

- 3:40** Olivier Labussiere\*, CNRS, *Capturing the past, making unconventional energy future: exploring coal bed methane in France (Lorraine).*

- 4:00** Eva Öller\*, Freie Universität Berlin, *Reconsidering Germany's leadership role in the context of EU Renewable Energy Policy.*

- 4:20** Hannah Lyons\*, Northeastern University; Jennie Stephens, PHD, Northeastern University, *Redistributing the Power: Energy Democracy, Diversity, and Inclusion in the Renewable Energy Transition.*

- 4:40** Juan Declet-Barreto\*, Union of Concerned Scientists, *Opportunities and challenges for alignment between proponents of carbon markets and environmental justice in the Clean Power Plan.*

## **2574. Geospatial Health Research Symposium: Infectious Diseases III (Sponsored by Spatial Analysis and Modeling Specialty Group, Health and Medical Geography Specialty Group)**

**Room:** Simmons, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Eric M. Delmelle, University of North Carolina at Charlotte; Michael J. Widener, University of Toronto; Mei-Po Kwan, University of Illinois at Urbana-Champaign

CHAIR(S): Eric M. Delmelle, University of North Carolina at Charlotte

- 3:20** Samuel Adu-Prah\*, Sam Houston State University, *Spatial synchrony of malaria outbreaks in an agro-ecological transitional region of Ghana.*

- 3:40** Kabita Ghimire\*, Kansas State University; Douglas G. Goodin, Kansas State University; Bimal K. Paul, Kansas State University; J.M. Shawn Hutchinson, Kansas State University, *Space-Time Patterns of Malaria in Nepal: 1988-2013.*

- 4:00** Emmanuel Tanko Umaru\*, Federal University of Technology; Valda Martins, Federal University of Technology, Minna; Williams Aiyejina, Federal Ministry of Works and Housing, *Spatiotemporal Analysis of the incidence of Malaria in Nigerian Urban Areas.*

- 4:20** April Frake\*, Michigan State University; Joseph P. Messina, PhD, Michigan State University, *Investigating the role of land transformation for irrigated agriculture on malaria disease dynamics: a case study at Bwanje Valley Irrigation Scheme, Malawi.*

- 4:40** Michael Emch\*, University of North Carolina at Chapel Hill, *Landscape Genetics of Malaria in the Democratic Republic of Congo: Drug and Diagnostic Resistance.*

## **2575. The Land beneath Our Feet: Film Screening and meet the Director/Writer (Sponsored by Cultural and Political Ecology Specialty Group, Africa Specialty Group)**

**Room:** Suffolk, Marriott, Third Floor (Panel Session)

ORGANIZER(S): Paul Robbins, Nelson Institute for Environmental Studies University of Wisconsin; Scott Kirsch, UNC-Chapel Hill

CHAIR(S): Paul Robbins, Nelson Institute for Environmental Studies University of Wisconsin

Introducer: Scott Kirsch

Panelists: Gregg Mitman; Leslie Gray, Santa Clara University; Edward R. Carr, Clark University

## **2576. Symposium on Human Dynamics in Smart and Connected Communities: Smart Cities and Urban Computing 8 (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group, Spatial Analysis and Modeling Specialty Group)**

**Room:** Wellesley, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Xinyue Ye, Kent State University; Shaowen Wang, University of Illinois at Urbana-Champaign

CHAIR(S): Elvis A. Martinez, U.S. Bureau of the Census

- 3:20** Elvis A. Martinez\*, U.S. Bureau of the Census, *Innovations in Road Network Conflation at the U.S. Census Bureau.*

- 3:40** Paola Zamperlin\*, University of Florence; Chiara Garau, University of Cagliari - DICAAR; Paolo Nesi, University of Florence - DISIT; Michela Paolucci, University of Florence - DISIT, *A governance-centred approach to a smart city: Data collection and analysis of tourist behaviors in two Italian case studies.*

- 4:00** Laura Getts, MS Candidate\*, Plymouth State University; Amy Villamagna, PhD, Plymouth State University, *Methods for Investigating and Advancing Active Transportation in NH.*

- 4:20** Joseph A. Koncur\*, University of Kansas; Ting Lei, University of Kansas, *County-level Big Data Analysis: Property Value Change in Johnson County, KS 2012-2015.*

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## 2577. Theorizing Global Urbanism

Room: Harvard, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Richard Nunes, University of Reading

3:20 De Leon Petta Gomes Da Costa\*, University of São Paulo, *The Geopolitics of Brazil: Directions and perspectives.*

3:36 Philip John Harrison, Professor\*, University of the Witwatersrand, Johannesburg, *Emergent Comparisons: Reflections on the BRICS as a framing for transnational urban research.*

3:52 Thiago Canetti\*, UFMG, *Parallax, Periphery and Negativity: The Need for an Metacritique Epistemology.*

4:08 Geraldo Magela Costa\*, Universidade Federal De Minas Gerais, *Abstraction and concreteness regarding the urban question in the Global South: the Brazilian case.*

4:24 Miguel Robles-Duran, Associate Professor of Urbanism\*, New School University, *Urbanization of 21st Century Daily Life.*

4:40 Richard Joseph Nunes\*, University of Reading, School of Real Estate and Planning; Angelique Chettiparambil Rajan, PhD, University of Reading, School of Real Estate and Planning, *Pragmatism and justice: from critical pragmatism to transformative pragmatism.*

## 2579. HDGC Awards Ceremony Honoring Dr. Robert Kates and Dr. Karen Seto and Keynote Address by Dr. William Clark (Sponsored by Human Dimensions of Global Change Specialty Group)

Room: Arlington, Marriott, Third Floor (Panel Session)

ORGANIZER(S): V. Kelly Turner, Kent State University

CHAIR(S): V. Kelly Turner, Kent State University

Introducer: Darla Munroe

Panelists: Karen C. Seto, Yale University; B. L. Turner II, Arizona State University; Bill Clark, Harvard University

## 2580. Symposium on Human Dynamics in Smart and Connected Communities: Social Media and Big Data 3 (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group, Cartography Specialty Group)

Room: Berkeley, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Ming-Hsiang Tsou, San Diego State University; Atsushi Nara, San Diego State University; SU HAN

CHAIR(S): Tao Cheng, University College London

3:20 Ming-Hsiang Tsou, The Center for Human Dynamics in the Mobile Age, San Diego State University; Hao Zhang, San Diego State University, *Working with Data Noises, Robots, User Biases, and System Errors in Geo-tagged Twitter Messages (Tweets).*

3:40 Fang Fang\*, West Virginia University, *Are restaurant reviews better in tourist cities? A comparison of Yelp reviews between Las Vegas and Pittsburgh.*

4:00 Enrico Di Minin\*, Department of Geosciences and Geography, *Using social media data to monitor the illegal wildlife trade.*

4:20 Tao Cheng\*, University College London; Jidong Tian, University College London, *Using Social Media Data for Sexually Transmitted Infections (STI) Surveillance in London.*

Discussant(s): Xinyue Ye, Kent State University

## 2581. Issues in Ethnic Geography - I (Sponsored by Ethnic Geography Specialty Group)

Room: Clarendon, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Stavros T. Constantinou, Ohio State University; Carlos Teixeira, University of British Columbia Okanagan

CHAIR(S): Carlos Teixeira, University of British Columbia Okanagan

3:20 John A. Cross, Ph.D., University of Wisconsin Oshkosh, *Resistance to Assimilation and the Creation and Expansion of Ethnic Homelands.*

3:40 Martha Isaacs, The University of North Carolina at Chapel Hill, *The Right to the Bike: Investigating Barriers to Cycling in the Burmese-Originated Refugee Community in Chapel Hill, NC.*

4:00 S M Rafael Harun\*, University of Waterloo, *Income disparity and ethnoburbs: a preliminary analysis.*

4:20 Ilan Shdema, Ph.D.\*, Ben Gurion University of the Negev at Eilat, *Place identity among minorities and exposure to the majority's social space: lessons from Arabs in Israel.*

4:40 Stavros T. Constantinou\*, Ohio State University; Milton E. Harvey, Kent State University, *A Methodology for Delimiting Ethnic Functional Neighborhoods.*

## 2582. 'Crisis', peripherality and the governing of socio-spatial inequality in Europe: Logics, practices, emotions (2) (Sponsored by European Specialty Group)

Room: Dartmouth, Marriott, Third Floor (Panel Session)

ORGANIZER(S): Kathrin Hörschelmann, Leibniz-Institute for Regional Geography; Judith Miggelbrink, Leibniz Institute for Regional Geography; Erika Nagy, MTA KRTK

CHAIR(S): Kathrin Hörschelmann, Leibniz-Institute for Regional Geography

Introducer: Kathrin Hörschelmann

Discussant(s): Erika Nagy, MTA KRTK

Panelists: Merje Kuus, University of British Columbia; Judit Timar, Centre for Economic and Regional Studies, Hungarian Academy of Sciences

## 2583. Coastal geomorphology and Impacts of sea-level rise (Sponsored by Coastal and Marine Specialty Group)

Room: Exeter, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Harry Williams, University of North Texas

CHAIR(S): Patrick Elliott, University of North Texas

3:20 Salim Mubarak Al-Hatrusi\*, Sultan Qaboos University, *Change detection of temporal coastal changes along Ras As Sawadi; Oman.*

3:40 Christopher Anthony Alexis, MSc, BSc (Hons)\*, University of the West Indies; Junior Darsan, PhD, University of the West Indies, *Coastal modelling used as a tool in the analysis of nearshore processes and beach dynamics for the management of an eco-sensitive species in an eco-sensitive area, Grande Riviere, Trinidad..*

4:00 Aurélie Bernard\*, University of Maine - France, *Comparative Analysis of Adaptation Strategies to Coastal Climate Change: Managed Realignment in France and in Germany.*

4:20 Jewell Porter\*, Clark University; Amy Leung, Clark University, *Identifying and Prioritizing resilient wetlands in response to sea-level rise with spatial statistics in the Choptank River Complex.*

4:40 Patrick Elliott\*, University of North Texas, *Evaluating sea-level-rise hazards on coastal archaeological sites on the north Texas Gulf Coast.*

## 2584. Pyrogeography IV (Sponsored by Cultural and Political Ecology Specialty Group, Remote Sensing Specialty Group, Biogeography Specialty Group)

Room: Fairfield, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Paul Laris, CSU Long Beach

CHAIR(S): Rebecca Lee Jacobs, California State University - Long Beach

3:20 Timothy A Warner\*, West Virginia University; Nicholas S Skowronski, USDA Forest Service, Northern Research Station; Michael R Gallagher, USDA Forest Service, Northern Research Station, *High Spatial Resolution Mapping of Wildfire Burn Severity Using Worldview-3 Data.*

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- 3:40** Monika P. Calef\*, Soka University of America; Anna Varvak, Soka University of America; A David McGuire, USGS, Alaska Cooperative Fish & Wildlife Research Unit, Univ. of Alaska Fairbanks, *How Human Fires Differ from Lightning Fires in Interior Alaska.*
- 4:00** Jacob Bendix\*, Syracuse University; Justin J. Hartnett, Syracuse University, *Santa Ana Winds and Lightning: the Role of Timing in Southern California Wildfires.*
- 4:20** Dongmei Chen\*, University of Oregon, *Fire suppression across the West and its relationship with insect outbreaks.*
- 4:40** Zehao Shen\*, Peking University, *Forest fire regimes and their influential factors in China: A study based on the national forest fire hazards survey.*

## **2589. Mapping and Monitoring Land Cover and Land Use Change (LCLUC) in a Changing Environment - 2 (Sponsored by Geographic Information Science and Systems Specialty Group, Remote Sensing Specialty Group)**

*Room:* Vineyard, Marriott, Fourth Floor (Paper Session)

- ORGANIZER(S): Giuseppe Molinaro, University of Maryland; Liz Goldman, World Resources Institute
- CHAIR(S): Giuseppe Molinaro, University of Maryland
- 3:20** Eric Weber\*, Oak Ridge National Laboratory; Jessica Moehl, Oak Ridge National Laboratory; Melanie Laverdiere, Oak Ridge National Laboratory; Amy Rose, Oak Ridge National Laboratory, *High-resolution spatial predictors for day and night population distributions in the USA.*
- 3:40** Florencia Sangermano\*, Graduate School of Geography, Clark University, *Land change modeling for the evaluation of biodiversity co-benefits.*
- 4:00** Suzanne Cotillon\*, USGS EROS Data Center; Gray Tappan, USGS, *Landscapes of West Africa: A story of 40 years of accelerating environmental change.*
- 4:20** Kristi L. Saylor\*, United States Geological Survey, *Trends of land cover change rates from 1973 to 2011 for selected US Ecoregions.*
- 4:40** Sarah Sargent\*, World Resources Institute, *Harnessing geospatial statistics to combat illegal forest and land fires in Indonesia.*

## **2590. Effective pedagogies for sustainability and climate change in higher education: Discussion (Sponsored by Human Dimensions of Global Change Specialty Group, Climate Specialty Group, Geography Education Specialty Group)**

*Room:* Yarmouth, Marriott, Fourth Floor (Panel Session)

- ORGANIZER(S): Jeff Robert Baldwin, Sonoma State University
- CHAIR(S): Jeff Robert Baldwin, Sonoma State University
- Discussant(s): Rebecca A. Johns, University of South Florida; Phoebe C. Godfrey, University of Connecticut; Melissa Hinten, University of Tennessee; Drew Fulton Bush, McGill University; Robert J. Mason, Temple University; Lewis Winks Winks, University of Exeter

## **2591. Urban-economic perspectives on technology (Sponsored by Geographic Information Science and Systems Specialty Group, Urban Geography Specialty Group, Economic Geography Specialty Group)**

*Room:* Nantucket, Marriott, Fourth Floor (Paper Session)

- ORGANIZER(S): Ryan Burns, University of Calgary; Daniel G. Cockayne, University of Waterloo
- CHAIR(S): Ryan Burns, University of Calgary
- 3:20** Byron Miller\*, University of Calgary; Samuel Moessner, University of Muenster, *Who has the right to the smart city?*
- 3:40** Brian Alexander Brown, Ph. D.\*, University of Windsor, *Commissioned 'Vandalism' & Urban Re-Generation/ Gentrification: The Case of Street Art in the Post-Fordist Motor City.*
- 4:00** Anna Paola Quaglia\*, Polytechnic University of Turin, *On the politics of technology and its discourse: the case of*

*contemporary Milan.*

- 4:20** Dylan Simone\*, University of Toronto, *The FinTech (R) evolution? Debt, Big Data, and New Forms of Risk-Based Pricing.*

Discussant(s): Renee Sieber, McGill University

## **2592. PREM: The Daily Life of Police Violence 3 - Panel**

*Room:* Provincetown, Marriott, Fourth Floor (Panel Session)

ORGANIZER(S): Christina Heatherton, Trinity College; Ted Rutland, Concordia University; Jennifer Ridgley, Carleton University

CHAIR(S): Christina Heatherton, Trinity College

Panelists: Craig Willse; Linda Tabar, Trinity College; Colby Lenz, University of Southern California; Jaskiran Dhillon

## **2593. The politics of Place in China (Sponsored by China Specialty Group)**

*Room:* Orleans, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Xiaobo Su, University of Oregon

CHAIR(S): Bryan Winter, University of South Florida

- 3:20** Bryan Winter\*, University of South Florida, *Street Vendors' Narratives and Public Space in Nanchang.*

**3:40** Jane Hayward\*, Tsinghua University; Malgorzata Jakimow, Sheffield University, *Beijing's Urban Villages as Sites of Ideological Contestation.*

**4:00** Hong Yan\*, East China Normal University; Bindong Sun, East China Normal University, *How does the built environment affect individual physical activity? Evidence from Shanghai.*

**4:20** Tae-yang Choi\*, Chonnam national university, *Hyper-reality of Chinese-Korean Diaspora in Yanji, China.*

**4:40** Ettore Santi\*, University of California - Berkeley, *Urbanization and Democracy. Insurgent Citizenship in Wukan Village protests for land gabs..*

## **2594. Transportation in China (Sponsored by China Specialty Group)**

*Room:* Hyannis, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Xiaobo Su, University of Oregon

CHAIR(S): Xiaowei Yao

**3:20** Meixuan Dong, Peking University; Jiawen Yang, Peking University, *Regional Transit Supply In China: A Review Of The Major Issues.*

**3:40** Bo Wang\*, The University of Hong Kong; Becky P.Y. Loo, The University of Hong Kong, *Travel time use and its impact on high-speed-rail passengers' satisfaction: Some empirical findings from China.*

**4:00** Xiaowei Yao\*, Qianwen Duan, *Effect of Inter-City Railway on the Spatial-Temporal Changes of Land Use in Wuhan Metropolitan Area, China.*

**4:20** Bo Huang\*, The Chinese University of Hong Kong, *Impact of High Speed Railways on the Spatial Redistribution of Economic Activities.*

## **2595. Hazards, Disasters, and Human Dimensions in the Context of South Asia (Sponsored by Asian Geography Specialty Group)**

*Room:* Falmouth, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Munshi Rahman, Saint Louis University; Bimal Kanti Paul, Kansas State University; Thomas Crawford, Saint Louis University

CHAIR(S): Munshi Rahman, Saint Louis University

**3:20** Bimal Kanti Paul\*, Kansas State University; Bidhan Acharya, Mr., Central Department of Population Studies, Tribhuvan University; Kabita Ghimire, Dr., Kansas State University, *Effectiveness of earthquakes relief efforts in Nepal: Opinions of the survivors.*

**3:40** PRAJWAL PANDAY\*, Nichols College, *Climatic hazards in the Himalayan region.*

**4:00** Sierra Ross Gladfelter\*, University of Colorado Boulder, *Training Rivers, Training People: Interrogating the making of resilient riparian communities in the face of global climate change.*



# THURSDAY, April 6 • 3:20 PM - 5:00 PM • 2500

**4:20** Shouraseni Sen Roy\*, University of Miami, *Spatial Patterns of Long Term Trends in Daily Temperatures across the Indian Subcontinent*.

**4:40** Brian W. Okey, PhD\*, Indiana University of Pennsylvania; Subrata Chattopadhyay, PhD, Indian Institute of Technology, Kharagpur; Haimanti Banerji, PhD, Indian Institute of Technology, Kharagpur; Sudeshna Ghosh, PhD, Indiana University of Pennsylvania, *Student Field Studies in India I: Rajarghat Slum, Kolkata..*

**2596. Experiments in Force II: Research Infrastructures/ Atmospheres of War and Violence (Sponsored by Political Geography Specialty Group)**

*Room:* Maine, Marriott, Fifth Floor (Paper Session)

ORGANIZER(S): Katharine Hall Kindervater, Dartmouth College; Nisha Shah, University of Ottawa

CHAIR(S): Nisha Shah, University of Ottawa

**3:20** Katharine Hall Kindervater\*, Dartmouth College, *Experimental Air Power: Early Drone Programs and Colonial Governance*.

**3:40** Andrew Merrill\*, University of Toronto, *Targeted Knowledge: Research in the Thresholds of War and the Academy*.

**4:00** Elizabeth R. Johnson, PhD\*, Hobart & William Smith Colleges, *"The Leviathan and the Hydra: DARPA's unmanned underwater vehicle system and the militarization of seaspace"*.

Discussant(s): Marieke De Goede, University of Amsterdam

**2597. Radicalizing the politics of 'living with': enacting race, ethnicity, and difference in animal geography scholarship (Sponsored by Cultural and Political Ecology Specialty Group, Cultural Geography Specialty Group, Animal Geography Specialty Group)**

*Room:* Massachusetts, Marriott, Fifth Floor (Paper Session)

ORGANIZER(S): John-Henry Pitas, University of Maryland - Baltimore County; Jared Margulies, Department of Geography and Environmental Systems, UMBC

CHAIR(S): Dawn Biehler, University of Maryland Baltimore County

**3:20** Harvey Neo\*, National University of Singapore, *"Man Eating Sharks": Race, class and the politics of consumption*.

**3:40** Celeste Alexander\*, Princeton University, *Casting Human-Animal Relations in Tanzania: Living with Elephants on Contested Terrain*.

**4:00** Julie Guthman\*, Univ of California Santa Cruz, *The deadening soil: Reflections on the necropolitics of "living with" in California's strawberry industry*.

**4:20** Emma Findlen LeBlanc\*, University of Oxford, *'But Who Will Vote for the Moose and the Rabbits?': Mediations in Interspecies Politics*.

**4:40** Patricia J. Lopez, PhD\*, Dartmouth College; Kathryn Gillespie, Wesleyan University, *Livable lives: Theorizing beyond vitality and the human*.

**2598. Implementing the C3 Framework: Exploring the Road Ahead (Sponsored by Geography Education Specialty Group)**

*Room:* New Hampshire, Marriott, Fifth Floor (Panel Session)

ORGANIZER(S): Jeffrey W. Lash, University of Houston Clear Lake; Gary Gress, University of Oklahoma

CHAIR(S): Jeffrey W. Lash, University of Houston Clear Lake

Introducer: Jeffrey W. Lash

Panelists: Gary Gress, University of Oklahoma; Injeong Jo, Texas State University; Kama Cannon; Emily Schell, California International Studies Project; Phil Gersmehl, retired, pro bono at Michigan Geographic Alliance

**2599. Cognition, Behavior and Design 3 (Sponsored by Geographic Information Science and Systems Specialty Group, Environmental Perception and Behavioral Geography Specialty Group, Cartography Specialty Group)**

*Room:* Vermont, Marriott, Fifth Floor (Paper Session)

ORGANIZER(S): Alexander Savelyev, The Pennsylvania State University

CHAIR(S): Jeff Howarth, Middlebury College

**3:20** Meghan Kelly\*, University of Wisconsin?Madison; Robert E Roth, University of Wisconsin?Madison; Caroline Rose, University of Wisconsin?Madison, *Cartographic Design and Visual Storytelling in the Media*.

**3:40** Robert E. Roth\*, UW-Madison; Sarah A. Moore, UW-Madison; Tanya MA Buckingham, UW-Madison; Heather Rosenfeld, UW-Madison; Eric Nost, UW-Madison; Kristen Vincent, UW-Madison; Rafi Arefin, UW-Madison, *The Design Challenge: Interweaving critical geographic pedagogy, visual storytelling, and big data visualization in a day-long mapping workshop*.

**4:00** Danielle Oprean\*, Pennsylvania State University; Mark Simpson, Pennsylvania State University; Alexander Klippel, Pennsylvania State University, *Implications of immersive egocentric experiences for geospatial education: A case for embodiment and experience of time and place*.

**4:20** Barry Joel Kronenfeld\*, Eastern Illinois University; David C Viertel, Eastern Illinois University, *Cartogram Construction in the Classroom*.

**4:40** Jeff Howarth\*, Middlebury College, *For whom are online GIS lectures worth more than live lectures?*.



## THURSDAY, April 6 • 5:20 PM - 7:00 PM • 2600

- 2636. Noam Chomsky - A Continuing Conversation with Geographers (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme) - Plenary Session**

*Room:* Ballroom B, Hynes, Third Level (Plenary Session)

Thursday, April 6, 5:20 p.m. - 7:00 p.m.

Organizer and Moderator: **Douglas Richardson**, American Association of Geographers

Speaker: **Noam Chomsky**, MIT

The AAG has selected Noam Chomsky as its 2017 AAG Atlas Award recipient. Chomsky will engage in a conversational interview with AAG Executive Director Doug Richardson, as he has several times previously. The audience will have an opportunity to ask questions following the interview.

Chomsky will also receive the AAG Atlas Award, designed to recognize and celebrate outstanding, internationally-recognized leaders who advance world understanding in exceptional ways. The image of Atlas bearing the weight of the world on his shoulders is a powerful metaphor for this award program, as our nominees are those who have taken the weight of the world on their shoulders and moved it forward, whether in science, politics, scholarship, or the arts. Primatologist Jane Goodall, international human rights and political leader Mary Robinson, and civil rights icon Julian Bond have been the recipients of the first three AAG Atlas Awards.

- 2654. Historical Geography Specialty Group Business Meeting (Sponsored by Historical Geography Specialty Group)**

*Room:* Berkeley, Sheraton, Third Floor (Meeting Session)

## THURSDAY, April 6 • 7:10 PM - 8:10 PM • 2700

- 2729. Geographies of Wine, Beer, and Spirits Specialty Group Business Meeting (Sponsored by Wine Specialty Group)**

*Room:* Room 309, Hynes, Third Level (Meeting Session)

- 2730. Environment & Planning C: Politics & Space: A new forum for spatial and political thought in challenging times (Sponsored by SAGE Publishing)**

*Room:* Room 310, Hynes, Third Level (Panel Session)

ORGANIZER(S): Alison Mountz, Wilfrid Laurier University;  
Mathew Coleman, Ohio State University;  
Patricia Noxolo, School of Geography, Earth and Environmental Sciences

CHAIR(S): Anna J Secor, University of Kentucky

Panelists: Ishan Ashutosh, Indiana University; Eugene McCann, Simon Fraser University; Patricia Daley; Cristina Temenos, University of Manchester - Manchester

- 2739. AAG Shorts - Film Screening I**

*Room:* Independence West, Sheraton, Second Floor (Panel Session)

ORGANIZER(S): Jessica Jacobs, Queen Mary University of London

CHAIR(S): Jessica Jacobs, Queen Mary University of London

\*\*\* Continued into next slot, 2839

- 2760. Indigenous Peoples Specialty Group Business Meeting (Sponsored by Indigenous Peoples Specialty Group)**

*Room:* Fairfax B, Sheraton, Third Floor (Meeting Session)

- 2765. Ethnic Geography Specialty Group Business Meeting (Sponsored by Ethnic Geography Specialty Group)**

*Room:* Tremont, Marriott, First Floor (Meeting Session)

- 2768. Latin America Specialty Group Business Meeting (Sponsored by Latin America Specialty Group)**

*Room:* St. Botolph, Marriott, Second Floor (Meeting Session)

- 2769. Hazards, Risks, and Disasters Specialty Group Business Meeting (Sponsored by Hazards, Risks, and Disasters Specialty Group)**

*Room:* Regis, Marriott, Third Floor (Meeting Session)

- 2775. Climate Specialty Group Business Meeting (Sponsored by Climate Specialty Group)**

*Room:* Suffolk, Marriott, Third Floor (Meeting Session)

- 2776. Africa Specialty Group Business Meeting (Sponsored by Africa Specialty Group)**

*Room:* Wellesley, Marriott, Third Floor (Meeting Session)

- 2777. Cryosphere Specialty Group Business Meeting (Sponsored by Cryosphere Specialty Group)**

*Room:* Harvard, Marriott, Third Floor (Meeting Session)

- 2781. Geomorphology Specialty Group Business Meeting (Sponsored by Geomorphology Specialty Group)**

*Room:* Clarendon, Marriott, Third Floor (Meeting Session)

- 2784. Recreation, Tourism, and Sport Specialty Group Business Meeting (Sponsored by Recreation, Tourism, and Sport Specialty Group)**

*Room:* Fairfield, Marriott, Third Floor (Meeting Session)

- 2789. Graduate Student Affinity Group Business Meeting (Sponsored by Graduate Student Affinity Group)**

*Room:* Vineyard, Marriott, Fourth Floor (Meeting Session)

- 2792. Cultural and Political Ecology Specialty Group Business Meeting (Sponsored by Cultural and Political Ecology Specialty Group)**

*Room:* Provincetown, Marriott, Fourth Floor (Meeting Session)

## THURSDAY, April 6 • 8:10 PM - 9:10 PM • 2800

**2839. AAG Shorts - Film Screening I**

*Room: Independence West, Sheraton, Second Floor* (Panel Session)  
This session is a continuation of the previous timeslot, 2739.

**2865. Ethics, Justice, and Human Rights Specialty Group Business Meeting (Sponsored by Ethics, Justice, and Human Rights Specialty Group)**

*Room: Tremont, Marriott, First Floor* (Meeting Session)

**2889. Undergraduate Student Affinity Group Business Meeting (Sponsored by Undergraduate Student Affinity Group)**

*Room: Vineyard, Marriott, Fourth Floor* (Meeting Session)

*Presenting author(s) are indicated with an asterisk (\*).*

*For special events, please see the Special Events & Meetings Summary on pages 60-66.*

*For the Key to Session Numbers & Room Numbers, please see pages 96-97.*

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## FRIDAY, April 7 • Poster Sessions

### Human Geography Poster Session II - Featured Session

Room: Hall C, Hynes, Second Level

Poster setup: 7:30 a.m. - 8:00 a.m.

Poster display and discussion: 8:00 a.m. - 11:40 a.m.

- Floyd W. Holder\*, Texas Tech University, *Poster #001: A Geographic Analysis of the Western Texas College District Area.*
- Christine Ames\*, Texas State University - San Marcos, *Poster #002: Risky Facilities: Apartment Complex Crime in San Marcos, Texas.*
- Chengyun Wang\*, Shanghai Normal University; Nana Li, *Poster #003: Roles of Clusters and Decentralization in R&D: From Location of R&D Institutions in and around Tokyo.*
- John E. Bodenman\*, Bloomsburg University; Darion Nomie, Bloomsburg University, *Poster #004: Spatial Dynamics of the Investment Advisory Industry: The Case of Boston 1983-2013.*
- Dennis J. Edgell, Dr.\*, University of North Carolina at Pembroke, *Poster #005: Japanese Enka Music and the Five Themes of Cultural Geography.*
- Suman Chhetri\*, Prakriti Consult Pvt. Ltd, *Poster #006: Climate Change Trend in Nepal.*
- Michael Hawkins\*, Kent State University, *Poster #007: The World's Game: Soccer as a Factor in Community and Identity Creation for Immigrants in London.*
- Christine Elizabeth MacKrell, Undergraduate\*, University of Mary Washington, *Poster #008: Global Trends of Feminism: Analyzing Geographic Patterns Based on Search Interest.*
- Dara N. Mendeloff, GISP\*, Columbia University, *Poster #009: Global Subnational Infant Mortality Rates, Version 2.*
- Mingxin Tao\*, Beijing Normal University; Yuzhen Ma, Beijing Normal University; Dandan Li, Beijing Normal University; Xiangrui Chen, Beijing Normal University; Qian Wang, Beijing Normal University, *Poster #010: Tectonic-geomorphic units in China.*
- Stella Todd\*, Metropolitan State University Of Denver, *Poster #011: Regional Housing and Transportation Challenges for MSU Denver Students.*
- John T. Bauer\*, University of Nebraska Kearney, *Poster #012: Mapping Nebraska's Settlement Frontiers.*
- Geoffrey L. Buckley\*, Ohio University; Christopher G. Boone, Arizona State University; J. Morgan Grove, USDA Forest Service, *Poster #013: The Greening of Baltimore's Asphalt Schoolyards.*
- Denise Racquel Forrest, MS\*, University of Pennsylvania, *Poster #014: Biopolitics and indigenous Alaska: Native exclusion as a means of preserving Western hegemonic governance of climate policy.*
- Priscilla Lema\*, Alaska Center for Conservation Science, *Poster #015: Engaging Remote Alaskan Communities in the Federal Land Planning Process.*
- Christa Smith\*, Clemson University; Margaret Gripshover, Western Kentucky University, *Poster #016: Making a Molehill out of a Blair Mountain: The Erasure of Heritage and Landscape in the Southern Appalachian Coalfields.*
- Tom Narins\*, University at Albany (SUNY), *Poster #017: The Lure of Chinese State Capitalism in Latin America.*
- Christopher Mertz\*, Pennsylvania State University, *Poster #018: Exploring the Link Between Income and Education in Selected Pennsylvania Cities and Towns.*
- Lisa M. DeChano-Cook\*, Western Michigan University; Fred M. Shelley, University of Oklahoma, *Poster #019: Climate Change and the Future of International Events: A Case of the Olympic and Paralympic Games.*
- Aura Moldovan\*, Babes-Bolyai University, Cluj-Napoca, *Poster #020: Socio-Spatial Polarization: Driving Force and Outcome of Territorial Mobility in Post-Socialist Romania.*

- Yunxi Wu\*, National Taiwan University, *Poster #021: Social Space Evolution Process under the Impact of Tourism Commercialization.*
- Timothy Vowles\*, University of Northern Colorado, *Poster #022: The Geography of Airline Gateways.*
- Jae Hyun Lee\*, University of Washington; Adam W Davis, University of California Santa Barbara; Elizabeth McBride, University of California Santa Barbara; Konstadinos G. Goulias, University of California Santa Barbara, *Poster #023: Exploring Social Media Data for Travel Demand Analysis: A comparison of Twitter, household travel survey and synthetic population data in California.*
- Angela Gale Mundis\*, St. Cloud State University, *Poster #024: 'Squaw' in the American Landscape: The Place-Politics of Renaming Pejorative Toponymy.*
- John T. Morgan\*, Emory & Henry College, *Poster #025: Chilhowie Revisited..*
- Alissa Lynn Zumer\*, Saginaw Valley State University, *Poster #026: Theme Park Mapping and Geographical Placement Field Study.*
- Robert G. Dutcher\*, Saginaw Valley State University; Robert G Dutcher, Saginaw Valley State University, *Poster #027: THE GEOGRAPHY OF GEORGE WASHINGTON: A Field Study Examination of How Surveying and the Military Helped Build His Geographic Knowledge.*
- Eugene Lee Harvey\*, Saginaw Valley State University, *Poster #028: Geographical History of Michigan Field Study.*
- Gabrielle Piatek\*, Saginaw Valley State University, *Poster #029: Civil War Field Study.*
- Jorge Zambrana\*, SUNY - Binghamton, *Poster #030: Twenty-First Century Ethnic Clusters in San Juan, Puerto Rico.*
- Anna Markey\*, Furman University; John Quinn, PhD, Furman University, *Poster #031: Analyzing the Effects of Human Ambient Noise on the Well Being of Captive Species.*
- James Dusty Norris\*, *Poster #032: The Organization of Early Archaic Technology in Southwest Alabama: An Aggregate Analysis of 1WN106.*
- Thao Hoang\*, University of Toronto, *Poster #033: Green for Whom? Exploring Ecotourism as a Climate Adaptation and Urban Strategy in Trang An, Vietnam..*
- Deborah S. Metzel, Ph.D.\*, University of Massachusetts - Boston; Maria Paiewonsky\*, University of MA Boston, *Poster #034: Does place make a difference? Applying Geography towards improving outcomes for college students with intellectual disabilities..*
- Sophia L Duncan\*, University of Denver; Paul Sutton, Ph. D, University of Denver, *Poster #035: An Ecosystem Service Valuation of Yellowstone and Grand Teton National Parks.*
- Mike C. Fowler\*, Montclair State University, *Poster #036: Environmental Analysis of Switchgrass Based Ethanol.*
- Deidre White-Bradshaw\*, Chicago State University, *Poster #037: Chicago Urban Soil & Health Risk When It Is Contaminated.*
- Carol F. Sawyer\*, University of South Alabama, *Poster #038: Do Mountains Make Fruit Taste and Look Better? Depictions of Mountains on Fruit Crate Labels.*
- Shaloma Wagstaffe\*, Binghamton University, *Poster #039: The Potential Role of Green Infrastructure in Reducing Urban Food Deserts in Minority Neighborhoods.*
- Wendy A Lascell, Ph.D.\*, SUNY Oneonta, *Poster #040: Cultural Immersion Service Project in Post-Katrina New Orleans.*
- Niki Anderson, Student\*, St. Cloud State University, *Poster #041: Reconfiguring the Disjointed Geography of Weather Warning Systems in Minnesota.*
- Allison Daniel\*, NASA DEVELOP National Program; Daniel Martin, NASA DEVELOP National Program; Jessica Vermillion, NASA DEVELOP National Program;



## FRIDAY, April 7 • Poster Sessions

- Kelly Meehan, NASA DEVELOP National Program, *Poster #042: Philippines Disasters.*
- Shingo Ikeda, M.A.\*, Gradient; Matthew J. Mayo, M.S., GISP, CPG, P.G., Gradient; Nicole L. Briggs, Ph.D., Gradient; Catherine Petito Boyce, S.M., Gradient; David B. Mayfield, M.S., DABT, Gradient, *Poster #043: Assessing Industrial Facility Vulnerability from Flooding Events in a Changing Climate.*
- Jennifer Nerby\*, Cornell University, *Poster #044: Mapping Vulnerability in Nepal.*
- Matthew Aaron Benjamin\*, USMA, *Poster #045: A System of Systems: Dense Urban Environments.*
- Anna Santos\*, Alaska Fisheries Science Center, NOAA Fisheries; Amber Himes-Cornell, Alaska Fisheries Science Center, NOAA Fisheries, *Poster #046: Dealing with uncertainty: Leveraging social networks of Alaskan fishing communities.*
- Gaston Ayon\*, University of North Carolina - Charlotte; Sara Gagnee, PhD, University of North Carolina Charlotte, *Poster #047: The effect of bird diversity on human psychological well-being in high- and low-income neighborhoods in Charlotte, North Carolina.*
- Emily Lynn Williams\*, UCSB, *Poster #048: Geographies of Disproportionality - Examining Disproportionate Impacts and 'Privileged Access' Throughout the Lifecycle of Carbon.*
- Brandon Anthony Rothrock\*, Pennsylvania State University, *Poster #049: Assessing Resilience of the Andean Quechua in Southeast Peru.*
- Andrea Davis\*, University of Utah; Neng Wan, Ph.D., University of Utah; James VanDerslice, Ph.D., University of Utah; Mitchell J. Power, Ph.D., University of Utah, *Poster #050: Childhood undernutrition within the Dry Zone of Myanmar: does geographic location matter?.*
- Hannah Wirth\*, University of Wisconsin - Eau Claire, *Poster #051: Non-Resident Land Ownership in Northern Wisconsin: An Analysis of Sun Belt Resident Property Values and Their Second Home Values in the Northwoods.*
- Carla Ferrario\*, Università del Piemonte Orientale; Raffaella Afferni, Department of Humanities - Università del Piemonte Orientale Amedeo Avogadro, *Poster #052: Geography and Text. The experience of the Geographical Ontology GO!.*
- Alexandra Mauer\*, Department of Environmental Science, Plymouth State University; Tylor Young, Division of Public Health Services, New Hampshire Department on Human Health Services; Kathleen Bush, Dr., Division of Public Health Services, New Hampshire Department on Human Health Services, *Poster #053: New Hampshire Gastrointestinal Illness and Water Systems Analysis.*
- Elizabeth A Weaver\*, Virginia Tech, *Poster #054: Forecasting Valley Fever: does weather hold the key to predicting outbreaks?.*
- Anthony Demartini Nicome\*, Texas Christian University, *Poster #055: The Impact of Cancer Survivor Services on North Texas Communities.*
- Monica V. Ogra\*, Gettysburg College; Upma Manral, Wildlife Institute of India; Ruchi Badola, Wildlife Institute of India; Lincoln M. Butcher\*, Gettysburg College, *Poster #056: Perceptions and experiences of environmental change in the Uttarakhand Himalaya, India.*
- Domenic DeMasi\*, Salem State University, *Poster #057: The Military-Industrial Complex and Climate Change: Connecting Demilitarization and Decarbonization.*
- Sara Elizabeth Hicks\*, Hofstra University, *Poster #058: Let's Get Educated!.*
- Alexandra Rapisarda\*, Texas Christian University, *Poster #059: Geography of Coffee.*
- Summer Locknick\*, University of Windsor; Chris Houser, University of Windsor, *Poster #060: Beach User Perceptions of the Rip Current Hazard on the Great Lakes.*
- Hannah Burdett\*, Chris Houser, University of Windsor, *Poster #061: No Speak, No Hear, No See: Improving Warning Systems for Rip Currents on the Great Lakes.*
- Alexandra Carol Lynn Scaman\*, University of Windsor; Chris Houser, University of Windsor, *Poster #062: Slap you in your face: A study of rip current warning dissemination methods.*
- Brent Vlodarchyk\*, University of Windsor; Chris Houser, University of Windsor, *Poster #063: Spatial and Temporal Variation in Drownings on the Great Lakes: 2010-2016.*
- Arye Max Janoff\*, Department of Earth and Environmental Studies, Montclair State University; Jorge Lorenzo Trueba, Department of Earth and Environmental Studies, Montclair State University; Porter Hoagland, Marine Policy Center, Woods Hole Oceanographic Institution; Di Jin, Marine Policy Center, Woods Hole Oceanographic Institution; Andrew Ashton, Geology and Geophysics Department, Woods Hole Oceanographic Institution, *Poster #064: A Geo-economic Model to Explore Hard Structure Impacts on Coastal Evolution and Management.*
- Jocelyn Mullins\*, University of Saint Joseph, *Poster #065: Spatial and epidemiologic analyses of latent tuberculosis infection demonstrate variation in local epidemiology.*
- Kendra Michelle Larach Saba\*, Texas Christian University, *Poster #066: Consolidated Vulture Aircraft Plant's Impact over Fort Worth, Texas.*
- Courtney Chardenae Dunn\*, Chicago State University, *Poster #067: Dimensions of Gender Inequality in Agricultural Production A Secondary Analysis in Developing Countries in Comparison to the United States.*
- Kelsey Taylor\*, The George Washington University, *Poster #068: Spatial Distribution and Analysis of Cyclist Crashes in Washington, DC.*
- Dawn Hawley\*, Northern Arizona University; Michelle Schatz, Northern Arizona University, *Poster #069: The First Year Seminar and Finding Livability, Space and Place in a New Community.*
- Kathryn Abelt\*, The University of Illinois at Urbana-Champaign, *Poster #070: Street Trees and Risk of Adverse Birth Outcomes in New York City.*
- Connor John Klassen\*, Pennsylvania State University, *Poster #071: Analysis of Socioeconomic Inequalities Among Hispanic and White Populations in Los Angeles County.*
- Khaula Abdulla Alkaabi, PhD\*, United Arab Emirates University, *Poster #072: Remodeling Future Transportation: A Case Study of Hyperloop Project in the United Arab Emirates.*
- Courtney Zirkel\*, *Poster #073: Bohemia in the Boroughs: Gentrification by the Creative Class in New York City.*
- Max Adam Rudner\*, The Pennsylvania State University, *Poster #074: Comparing Demographic Change In Brooklyn, NY and Fishtown, PA.*
- Meredith K. Stone\*, Ohio University, *Poster #075: Defining and Understanding Street Art as it Relates to the Black Lives Matter Movement in Baltimore.*
- Haitao MA\*, Institute of Geographic Sciences and Natural Resources Research, CAS., *Poster #076: Triangle model of Chinese returnees: A tentative method for city networks based on talent flows.*
- Gustavo Alberto Ovando\*, Oklahoma State University; Gustavo A. Ovando-Montejo, Oklahoma State University, *Poster #077: Exploring segregation of indigenous peoples in Mexico City using a GWR approach.*
- Richard True Capalbo\*, SUNY - Geneseo, *Poster #078: The Geography of Urban Stereotypes Using Google*

## FRIDAY, April 7 • Poster Sessions

- Autocomplete.*  
 Elizabeth Delmelle, University of North Carolina at Charlotte;  
 Elina Sukaryavichute\*, University of North Carolina,  
 Charlotte, *Poster #079: The Changing Spatial  
 Arrangements of US Neighborhoods.*
- Kendall Valerie Richey\*, Texas Christian University, *Poster  
 #080: Marfa, Texas: Tourist connections with hipster  
 hubs.*
- Nora Mariella Kuettel, M. Sc.\*, University of Muenster,  
 Germany, *Poster #081: Creative networks and creative  
 spaces in Detroit, Michigan.*
- Brian W. Conz, Ph.D.\*, Westfield State University; Timothy  
 LeDoux\*, Westfield State University, *Poster #082:  
 Urban Agriculture, Social Justice and University-  
 Community Partnerships: Notes from the Field.*
- Keith A. Bremer\*, Fort Hays State University; Desserae K.  
 Shepston, *Poster #083: Low Impact, Energy Saving,  
 Sustainable Homes: A tiny Texas model.*
- Anthony Jreije\*, Clark University, *Poster #084: The Politics of  
 Gentrification in Beirut.*
- Sanggeol Lee\*, University of Seoul; Myungje Woo, University of  
 Seoul, *Poster #085: Analysis of urban sprawl based on  
 functional distance through Markov-chain Model: in  
 the case of Seoul metropolitan area.*
- Ui Jeong Hwang, The University of Seoul; MYUNGJE WOO\*,  
 The University of Seoul, *Poster #086: Relationships  
 between urban decline and urban sprawl in South  
 Korea.*
- Philip L. Chaney\*, Auburn University; Lindsay Doukopoulos,  
 Auburn University, *Poster #087: Active Learning  
 Exercise on Sustainability and the Water Footprint of  
 Food.*
- Stephen J. Tulowiecki, Ph.D.\*, SUNY Geneseo, *Poster #088:  
 Seneca Iroquois settlement increased the pre-Euro-  
 American abundance of mast-producing, pyrophilic  
 tree species in Cattaraugus County, NY circa 1800 CE.*
- Bryce Gunson\*, Wilfrid Laurier University; Brenda Murphy,  
 Wilfrid Laurier University, *Poster #089: Ontario Rural  
 Municipal Emergency Management (EM) and Critical  
 Infrastructure: Enhancing Planning and Preparedness  
 Capacities for Climate Change Resilience.*
- Stefan Rayer\*, University of Florida; Ying Wang, University of  
 Florida, *Poster #090: Projecting Population Changes  
 for Counties Across the Size and Growth Spectrum.*
- Ron Roman, Master of Arts in Geography\*, *Poster #091: Role of  
 religious demography in Northern Ireland.*
- Tomoya Hanibuchi\*, Chukyo University; Tomoki Nakaya,  
 Ritsumeikan University; Akio Muranaka, Hokkai-  
 Gakuen University; Kazumasa Hanaoka, Ritsumeikan  
 University, *Poster #092: The challenge of creating  
 census-based neighborhood measures: Mapping "not  
 reported" cases of the 2010 population census in  
 Japan.*
- Richard Jacob Salamy\*, University of Richmond; Hyeji Jeong\*,  
 University of Richmond, *Poster #093: Demographic  
 Dynamics in Post-Annexation Richmond.*
- Imam Xierali\*, AAMC, *Poster #094: Migration of Obstetrician-  
 Gynecologists in the United States, 2005-2015.*
- Shannon Graham, MA, CPH\*, CDC/ATSDR, *Poster #095:  
 Disparities in Access to Ovarian Cancer Treatment.*
- Emma N. Hines\*, University of Texas - Austin; Norma L. Fowler,  
 PhD, University of Texas - Austin; Paul J. Schramm,  
 MS, MPH, Centers for Disease Control and Prevention;  
 Arie P. Manangan, MA, Centers for Disease  
 Control and Prevention, *Poster #096: Assessing the  
 vulnerability of Texas healthcare infrastructure and  
 population to flooding.*
- Michele Vitale, Post-doctoral Research Fellow\*, Saint Mary's  
 University, Department of Geography; Hugh Millward,  
 Professor, Saint Mary's University, Department of  
 Geography; Jamie Spinney, Assistant Professor, South  
 Dakota State University, Department of Geography,
- Poster #097: School Siting and Mode Choice: A  
 Demonstration Study in Halifax, Canada.*
- Julie Obenauer, DrPH\*, Department of Biostatistics and  
 Epidemiology, College of Public Health, East  
 Tennessee State University; Megan Quinn, DrPH,  
 Department of Biostatistics and Epidemiology, College  
 of Public Health, East Tennessee State University; Ying  
 Li, PhD, Department of Environmental Health, College  
 of Public Health, East Tennessee State University;  
 Andrew Joyner, PhD, Department of Geosciences,  
 College of Liberal Arts and Sciences, East Tennessee  
 State University, *Poster #098: Including Human  
 Population Characteristics in Ecological Niche Models  
 for Aedes aegypti when Modeling Projected Disease  
 Risk due to Climate Change.*
- Dylan J Campbell\*, University of Texas at Dallas, *Poster #099:  
 Using Food Consumption Levels to Analyze Current  
 Models of Food Desert Locations.*
- Frances Mujica\*, The University of South Alabama, *Poster #100:  
 Intentional Injury and GIS: A Case Study in Mobile,  
 AL.*
- Seungwon Kim\*, University of Iowa, *Poster #101: Spatio-  
 temporal patterns of the evolution of influenza A  
 subtype H1N1 in China, 2009-2010.*
- Jackson Hotaling\*, Ohio Wesleyan University, *Poster #102:  
 Cultural Presentation in a Chilean Deep Ecological  
 Landscape.*
- Craig S. Revels\*, Central Washington University, *Poster #103:  
 Port of Call or Port of Illusion? Desultory Tourism  
 Landscapes in Trujillo, Honduras.*
- Juan Manuel Delgado Estrada\*, Universidad Nacional Mayor De  
 San Marcos, *Poster #104: Latin American Geographic  
 Thought Critical, Latin American Council Of Social  
 Sciences - Clasco Working Group 2016 - 2019.*
- Danielle Jordan\*, United States Military Academy, *Poster #105:  
 This Land is Our Land: A Study of the Land Tenure  
 System in Kampala, Uganda and the Effect its Effect on  
 its Citizens.*
- Elizabeth Cooper\*, Gettysburg College; Monica V Ogra, Ph.D.,  
 Gettysburg College; Salma Monani, Ph.D., Gettysburg  
 College; Kim Davidson, M.A., Gettysburg College,  
*Poster #106: Food Justice and Social Capital for  
 Immigrant Community Gardeners: A Case Study at  
 Gettysburg College, Pennsylvania.*
- Joshua S Wendell\*, University of Nebraska - Omaha, *Poster  
 #107: Wewlesburg Castle: Himmler's Dream / The  
 importance of place in establishing an ideology.*
- Natashia Ayres\*, Salem State University; Ashley Walsh\*, Salem  
 State University; Steven E Silvern\*, Salem State  
 University, *Poster #108: Hunger and Homelessness in  
 Higher Education: Salem State University.*
- Jostein Brobakk\*, Center for Rural Research; Gerald Schwarz,  
 Thuenen Institute of Farm Economics, *Poster #109:  
 Understanding policy barriers for a bioeconomic  
 transition: Institutional settings and stakeholder  
 positions.*
- Joseph Holler, PhD\*, Middlebury College; Quinn Bernier, PhD  
 Student, Brown University, *Poster #110: Scalar  
 tension between international climate governance and  
 local stakeholders in developing countries' national  
 adaptation planning.*
- Jaclyn Verity\*, University of Miami; Imelda K Moise, PhD,  
 MPH, University of Miami Professor; Shouraseni  
 Sen Roy, PhD, University of Miami Professor, *Poster  
 #111: Neighborhood factors associated with low-risk  
 cesarean births in Miami-Dade County, Florida, 2009-  
 2014.*
- Sydney Giacalone\*, Tufts University, *Poster #112: The  
 Technopolitics of Mapping Food Access in US Urban  
 Spaces.*
- Bryan Booth\*, *Poster #113: The accuracy and validity of the  
 Hillsborough County, Florida's 2017 Homeless Point-*

# FRIDAY, April 7 • Poster Sessions

- In-Time Count.*  
 Su-Min Shen\*, National Taiwan Normal University; Yu-Fan Pan, Dasi Senior High School, Taiwan, ROC; Yu-Lan Ni, Dasi Senior High School, Taiwan, ROC, *Poster #114: Tayal's indigenous environmental knowledge vs mainstream school geography - An example of developing a course on drainage basin system in Taiwanese high schools.*
- Jane M. Read\*, Syracuse University; Susan Rachel May, Syracuse University, *Poster #115: Spatial Storytelling, the Geohumanities, and Stories of Onondaga Lake.*
- Qian Gong\*, East China Normal University, *Poster #116: Geography teachers' subject identity also matters in China.*
- Mark Manone\*, Northern Arizona University, *Poster #117: Power Of Data (POD) Project - Next step....Facilitator Academy.*
- Lara Furtado\*, University of Massachusetts - Amherst; Henry Renski, PhD, UMass Amherst, *Poster #118: The physical space of informal settlements and its relation to crime.*
- James Shea, Graduate Student\*, Salem State University, *Poster #119: Education Straight Ahead.*
- Ethan Boroughs\*, University of Richmond, *Poster #120: Restoration of the East End Cemetery: Building a Spatial Database of a Historically African-American Cemetery.*
- Anna K. Brand\*, Minnesota State University, Mankato and Karlsruhe University of Applied Sciences; Cynthia A. Miller, Minnesota State University, Mankato; Fei Yuan, Minnesota State University, Mankato, *Poster #121: Locating unexploded bombs in conflict landscapes using geographic object-based image analysis: A German case study from World War II.*
- Kristen E. Varney, Valdosta State University; Paul C. Vincent\*, Valdosta State University, *Poster #122: A Risk Terrain Model of Residential Burglaries in Valdosta, Georgia.*
- Annie Morgan Elledge\*, University of Texas - Austin, *Poster #123: "Look What the Bride Has Got On!": A Visual Discourse Analysis of Uganda's Wedding Industry.*
- Liza Brazil, Community Support Specialist\*, Consortium of Universities for the Advancement of Hydrologic Science, Inc. (CUAHSI), *Poster #124: Tools & Support for Integrating Real Environmental Data into Education.*
- Nelson Vera Büchel\*, University of Neuchâtel, *Poster #125: Urban rent and urban value: a territorial approach.*
- Jennifer Jensen\*, Texas State University, San Marcos; Laura Rodriguez Amaya, LBJ Institute for Stem Education and Research; Texas State University, *Poster #126: Micro-certification through digital badging systems for science teachers.*
- Andree Finkelstein\*, Syracuse University; Yat Sze Austin Cheng, Syracuse University; Maxine Williams, Syracuse University; Rachel May, PhD, Syracuse University; Jane Read, PhD, Syracuse University, *Poster #127: Redevelopment of Franklin Square in Syracuse, NY: A Virtual Tour.*
- Hollie Smith, PhD\*, University of Rhode Island; Christine Gilbert, University of Rhode Island, *Poster #128: Cultural Geography and Wind Energy Systems in the Northeast.*
- Yu Li\*, *Poster #129: GIS Implementation in Financial Control in Rural Areas in Fujian, China.*
- Anita Holmes\*, Chicago State University, *Poster #130: Driving Forces and Causes of Australia's Land Use.*
- Laurie Miller, MPA EdM\*, Cornell University, *Poster #131: LIHTC in New York City.*
- Dawna L. Cerney, PhD\*, Youngstown State University; Stephen J. Biroschak, Youngstown State University; Rachael E. Liposchak, Youngstown State University, *Poster #132: Leetonia, Ohio: A Case Study of Rural Rustbelt Home Features as a Proxy Quality of Life Indicator.*
- Pamela M. Godde, PhD, ABD\*, Lisa Wise Consulting and CSUSM, *Poster #133: Community Sustainability Plans for California Working Waterfronts: Considering the Triple Bottom Line.*
- Lorie Scott, DMA\*, American Geographical Society Library, *Poster #134: Geography and Art: The Photography Career of Eugene Harris as Reflection of Edward Steichen's 1955 MoMA Exhibition, the 'Family of Man'.*
- Tong Thi Hai Hanh\*, Uppsala University; Wiebren Johannes Boonstra, *Poster #135: Response diversity and social-ecological trap in the Tam Giang lagoon.*
- XIAONAN CHEN\*, Northwest A&F University; Jin Yu, Northwest A&F University, *Poster #136: Voluntary or Involuntary? The Role of Poverty Alleviation Policy in Resettlement Practices in China.*
- Leah Harnish\*, SUNY-College of Environmental Science and Forestry, *Poster #137: "Understanding water source knowledge: a survey of New York State residents".*
- Edward AW Terry\*, Texas State Department of Geography and the Meadows Center for Water and the Environment, *Poster #138: Estimating the Conservation Potential of the Residential Water-Use Sector: Texas Water Supply Planning Regions C and K.*
- Jules Laurent-Allard\*, Université de Montréal, *Poster #139: Think Playgrounds, an initiative of Do It Yourself urbanism in Hanoi, Vietnam: Contested public spaces and the right to play.*
- Misty McKinney\*, Graduate Student, San Francisco State University; Tendai Chitewere, Associate Professor, San Francisco State University, *Poster #140: Impacts of Illegal Dumping in East Palo Alto: An Environmental Justice Analysis.*
- \*\*\* Continued into next slot, 3220
- Physical Geography Poster Session I - Featured Session**  
 Room: Hall C, Hynes, Second Level  
 Poster setup: 1:00 p.m. - 1:20 p.m.  
 Poster display and discussion: 1:20 p.m. - 5:00 p.m.
- A reception for the Symposium on Physical Geography: "Human-Environment Interactions" will take place in the poster area from 3:00 pm - 5:00 pm.
- Elly Tahmaseb Gay\*, Furman University; Weston Dripps, Associate Professor, Furman University, *Poster #001: Understanding Campus Metabolism: Transformative Sustainability at Furman University.*
- Ricardo Alexander Gomez\*, University of Northern Colorado, *Poster #002: An Earthquake Assessment of a Potential Rupture Along the San Andreas Fault Analyzing Potential Damages to Downtown Los Angeles.*
- Jihee Park\*, Sungshin Women's University, *Poster #003: A Study on the Spatial Processes of the Green Belt in Korea, 1971-2010.*
- Emily Moothart, Graduate Student\*, University of Massachusetts - Boston, *Poster #004: Investigating the effects of dam removal on nutrient fluxes in a Massachusetts river.*
- Nina Simone Vilaverde Moura, Profa. Dra.\*, Universidade Federal do Rio Grande do Sul; Felipe Gonçalves de Sousa, MSc., Universidade Federal do Rio Grande do Sul; Tielle Soares Dias, MSc., Universidade Federal do Rio Grande do Sul, *Poster #005: Urban Evolution on Relief Compartments: Municipalities of Porto Alegre and Sapucaia do Sul, State of Rio Grande do Sul - Brazil.*
- Brandon Turner, Thompson Rivers University; David J. Hill, Thompson Rivers University; Darryl Carlyle-Moses\*, Thompson Rivers University, *Poster #006: Hobbyist Electronics offer a Low-Cost Alternative for the Study of Key Stemflow Processes.*
- Matthew H. Connolly, Ph.D.\*, University of Central Arkansas;



## FRIDAY, April 7 • Poster Sessions

- Kayla Geier, Missouri State University; Robert T Pavlowsky, Ph.D., Missouri State University; Toby Dogwiler, Ph.D., Missouri State University, *Poster #007: Beach Erosion Trends and Community Concerns Along Treasure Beach, South Coast Jamaica.*
- Dale R. Lightfoot\*, Oklahoma State University, *Poster #008: Qanats in the New World.*
- Alan F. Arbogast\*, Michigan State University; G. William Monaghan, Indiana Geological Survey; William A. Lovis, Michigan State University, *Poster #009: A Preliminary Reconstruction of Late Holocene Landscape Evolution of Sleeping Bear National Lakeshore in Northwest Lower Michigan.*
- Tessa Hill\*, Wesleyan University; Kim C Diver, Asst. Professor of Practice, Wesleyan University; Ezra Steinfeld, Wesleyan University, *Poster #010: Environmental factors of woody plant richness in the Massasauga Provincial Park.*
- Chan Woong Kim\*, Seoul National University; Young Ho Shin, Seoul National University, *Poster #011: The effects of climate change education on the amount of greenhouse gas emissions: a case study of Seoul National University students.*
- Arthur Elmes\*, Clark University; John Rogan, Ph. D., Clark University; Deborah Martin, Ph. D., Clark University; Samuel Ratick, Ph. D., Clark University; Christopher Williams, Ph. D., Clark University; David Nowak, Ph. D., USDA Forest Service, *Poster #012: Causes of Mortality for Juvenile Trees in a Semi-Urban Cohort in Worcester, MA.*
- Ying Tang, Michigan State University; Julie A. Winkler\*, Michigan State University; Shiyuan Zhong, Michigan State University; Xindi Bian, U.S. Forest Service; Dana Doubler, Michigan State University; Lejiang Yu, Polar Research Institute of China; Claudia K. Walters, University of Michigan-Dearborn, *Poster #013: The Great Plains low-level jet in the mid-21st century.*
- Lance Watkins\*, Arizona State University; Mary Wright, Arizona State University; Paul Chakalian, Arizona State University; Liza Kurtz, Arizona State University; David Hondula, Arizona State University; Sharon Harlan, Northeastern University, *Poster #014: Experienced vs Perceived Indoor Temperature Exposure.*
- Paul A. Knapp\*, University of North Carolina Greensboro; Peter T. Soule, Appalachian State University, *Poster #015: Is Arctic Sea Ice Extent Affecting Western Wildfire Activity?*
- Linshan Liu\*, Institute of Geographic Sciences and Natural Resources Research, CAS; Yili Zhang, Institute of Geographic Sciences and Natural Resources Research, CAS; Zhilong Zhao, Institute of Geographic Sciences and Natural Resources Research, CAS; Xue Wu, Institute of Geographic Sciences and Natural Resources Research, CAS; Basanta Paudel, Institute of Geographic Sciences and Natural Resources Research, CAS, *Poster #016: Assessment of land degradation and ecosystem service change during recent twenty years in Koshi River Basin, Central Himalaya.*
- Spring Pillsbury\*, Clark University, *Poster #017: Shallow Drinking-Water Aquifer Vulnerability to Manganese, Mercury, and TCE in Holliston, MA.*
- Donald G. Sullivan\*, University Of Denver; Maria A. Caffrey, University of Colorado, *Poster #018: Origins and Dynamic Stratigraphy in Mid-Latitude Subalpine Fens.*
- Maria Caffrey\*, University of Colorado Boulder; Kevin Gilmore, HDR Inc.; Donald G. Sullivan, University of Denver, *Poster #019: A Late Holocene Record of Paleoenvironmental Change from Valles Caldera National Preserve, New Mexico, USA.*
- Nina Claire Schnyder\*, Kutztown University; Michael Davis, Kutztown University, *Poster #020: Climate Variability in the Lehigh Valley.*
- Katherine Landesman\*, Clark University, *Poster #021: Vulnerability of Conversion from Mangrove Forests to Aquaculture in Myanmar.*
- Kaili Soisson\*, Kutztown University; Michael Davis, Kutztown University of Pennsylvania, *Poster #022: Extreme Cold Temperatures and Snow Fall In Pennsylvania.*
- Xiao Li\*, *Poster #023: A Practical Mobile Crowd-Sensing System for Road Surface Assessment in College Station, Texas.*
- Timothy D. Dillon\*, University of North Dakota; Andrei Kirilenko, Ph.D, University of Florida, *Poster #024: A CMIP5 ensemble assessment of climate change impact on durum wheat production in North Dakota, USA.*
- David Scott Kolodziejewski\*, University of Wisconsin Whitewater; John D. Frye, University of Wisconsin-Whitewater, *Poster #025: The Effect of Temperature, Precipitation, and Drought on Annual Corn and Soybean Crop Yields Across the Upper Midwest of the United States.*
- Daniela Maria Reyes Saade\*, Clark University; Florencia Sangermano, Graduate School of Geography, Clark University, *Poster #026: A Temporal and Spatial Analysis of Dengue, Chikungunya and Zika Viruses in El Salvador.*
- Tyler Anderson\*, Clark University; John Rogan, M.A., Ph.D., Clark University Graduate School of Geography; Deborah G Martin, M.A., Ph.D., Clark University Graduate School of Geography, *Poster #027: Characterizing Juvenile Tree Mortality on Residential Property in ALB Quarantine Zone, MA.*
- Shaoyong Bao\*, Institute of Geographic Sciences and Natural Resources Research, CAS, 11A, Datun Road, Chaoyang District, Beijing, 100101, China; Hanying MAO, 1. Institute of Geographic Sciences and Natural Resources Research, CAS, Beijing 100101, China; 2. China Science Center of International Eurasian Academy of Sciences, Beijing 100107, China., *Poster #028: Research on the Geo-political and economic patterns under the guidance of energy cooperation among China and Russia and the Central Asian countries.*
- Saira Khan\*, Clark University Graduate School of Geography; John Rogan, Clark University Graduate School of Geography; Anthony Bebbington, Clark University Graduate School of Geography, *Poster #029: Mapping Overlap Between Extractive Industries, Agriculture and Indigenous Communities in Copán, Honduras.*
- Sam S. Donnelly, Student\*, Gettysburg College; Randall Wilson, Professor of Environmental Studies, Gettysburg College, *Poster #030: North American Plains Bison: Conservation Status and Future Outlook.*
- Kimberly B Johnson\*, Clark University; John Rogan, PhD, Clark University; Anthony Bebbington, PhD, Clark University; Denise Humphreys Bebbington, PhD, Clark University, *Poster #031: Characterizing the Direct and Indirect Impacts of Coal Mining on Forest and Protected Areas in Sumatra, Indonesia from 2000-2014.*
- Eli Simonson, Graduate School of Geography\*, Clark University; John Rogan; Deborah G. Martin; Arthur Elmes, *Poster #032: Using a Planting Priority Index to select optimal locations for tree planting in Worcester, Massachusetts.*
- Jia DU\*, Institute of Geographic Sciences and Natural Resources Research, CAS; Yue Xiafang\*, Institute of Geographic Sciences and Natural Resources Research, CAS; Yaping Yang, Institute of Geographic Sciences and Natural Resources Research, CAS, *Poster #033: ElasticSearch-based Natural Disaster Search System of China.*
- Daniel Zimny-Schmitt\*, University of Denver; Benjamin Blair, PhD, University of Colorado, Denver; Murray Rudd, PhD, Emory University, *Poster #034: U.S. News Media Coverage of Pharmaceutical Pollution in the Aquatic Environment: A Content Analysis of the Problems and*



## FRIDAY, April 7 • Poster Sessions

### *Solutions presented by Actors.*

- Jongseo Yim\*, Seoul National University; Jungho Nam, Dr, Korea Maritime Institute; Seonggook Moon, Kyung Hee University; Woo Hyun Sophia Choi, Korea Maritime Institute, *Poster #035: Marine Spatial Planning in Limited Environment by Marine Suitability Assessment.*
- Jane Christine Mulcahy\*, Syracuse University, *Poster #036: The Role of Scale in Food System Practice: Exploring Food System Assessments.*
- Sabah Saleh Aljenaïd\*, Arabian Gulf University; Eman Ghoneim, Associate professor; Mohammad Abido, Professor; Ghadeer Khadeem Redha, GIS Specialist, *Poster #037: Assessing the Loss of Mangrove Vegetation and Associated Carbon Stock in Bahrain Using Remote Sensing and Geographic Information System.*
- Laura Patricia Gloria\*, Texas A&M University, Department of Geoscience, College Station, Texas, USA 77843; Nick Smart, Texas A&M University, Department of Geology and Geophysics, College Station, Texas, USA 77843; Phil Wernette, Texas A&M University, Department of Geography, College Station, Texas, USA 77843; Peter Knappett, Texas A&M University, Department of Geology and Geophysics, College Station, Texas, USA 77843; Chris Houser, University of Windsor, Department of Earth and Environmental Sciences, Windsor, Ontario, Canada N9B 3P4, *Poster #038: The Effects of Saltwater Intrusion on Coastal Aquifers and Vegetation Dynamics at Padre Island National Seashore, TX.*
- Coryn Collins\*, Louisiana State University, *Poster #039: Impacts of ENSO on Tornado Frequency and Geographical Distribution in the Eastern United States.*
- Gregory Carbone\*, University of South Carolina; Junyu Lu, University of South Carolina; Michele Brunetti, ISAC-CNR, *Poster #040: Estimating Confidence Intervals Associated with the Standardized Precipitation Index.*
- Octavio Rojas\*, University of Concepción; María Mardones, University of Concepción; Carolina Martínez, Pontifical Catholic University of Chile; Luis Flores, E.O.H. Engineer; Katia Saez-Carrillo, University of Concepción; Alberto Araneda, University of Concepción, *Poster #041: Floods, tides and sea level increase in a context of climate change in the south central Chile. Projections for the 21st century.*
- Petra A. Zimmermann\*, Ball State University, *Poster #042: Local Food: Is It Time to Put Climate in the Definition?*
- Emily D Esplin, Utah State University; Peter D Howe, PhD, Utah State University; Forrest Schoessow, Utah State University; Yajie Li, Utah State University, *Poster #043: Can you take the heat? The relationship between heat wave experience, risk perception, and protective action in the U.S.*
- Kent Murray\*, Univ. of Michigan; Cara Peterman, University of Kentucky, *Poster #044: Soil Pb Contamination, A Serious Health Risk, Southwest Detroit, Michigan USA.*
- Shana Rose\*, Kutztown University of Pennsylvania; Michael Davis, Kutztown University of Pennsylvania, *Poster #045: Temperature and Precipitation Variability on Texas Agriculture.*
- Veronica T. Passos\*, Federal University of Acre; Harley A Silva, Federal University of Acre, *Poster #046: Urban Protected Areas: How Well Is It Coping with Uncontrolled City Growth?*
- Madeleine Haynes\*, Eastern Connecticut State University; Meredith Metcalf, Dr., Eastern Connecticut State University; Gary Robbins, Dr., University of Connecticut; Peter Johnson, Dr., Eastern Connecticut State University; William Warzecha, Connecticut Department of Energy and Environmental Protection; Margaret Thomas, Connecticut Geological Survey, *Poster #047: A Comparative Study of Arsenic in Towns with Similar Hydrogeologic Conditions.*
- Benjamin Kofi Nyarko\*, University of Cape Coast; Kwasi Appeaning-Addo, University of Ghana; Barnabas Amisigo, CSIR-Water Research Institute, Ghana; Philip-Neri Jayson-Quashigah, University of Ghana; Francisca Martey, Ghana Meteorological Agency, Ghana; Gianluca Franceshini, FAO, Rome, Italy; Chris Hill, University of Southampton, Southampton UK, *Poster #048: Risk profiling of the Volta Delta in Ghana.*
- Alexandra Orrego, Georgia State University; Ricardo Nogueira\*, Georgia State University, *Poster #049: An analysis of precipitation-related traffic accidents and risks in DeKalb County.*
- Tianna Andrews\*, Kutztown University of Pennsylvania; Michael Davis, Kutztown University of Pennsylvania, *Poster #050: Assessment of Mid-Atlantic Atmosphere Instability, 2003-2013.*
- He Fanneng\*, Key Laboratory of Land Surface Pattern and Simulation, Institute of Geographic Sciences and Natural Resources Research, CAS, Beijing 100101, China; Li Meijiao, Key Laboratory of Land Surface Pattern and Simulation, Institute of Geographic Sciences and Natural Resources Research, CAS; University of Chinese Academy of Sciences, Beijing 100049, China; Li Shicheng, School of Public Administration, China University of Geosciences, Wuhan 430074, China, *Poster #051: Reconstruction of Lu-level cropland areas in the Northern Song Dynasty (AD976-1078).*
- Vanessa J. Bailey\*, University of Utah; Simon C. Brewer, PhD, University of Utah, *Poster #052: Modeling disturbance regimes in the Pacific Northwest.*
- Chong Liu\*, Jiangxi Normal University, *Poster #053: Spatial-temporal variability of ecosystem services in the Poyang Lake Basin under a changing climate.*
- Ying Li\*, East Tennessee State University; Wei Zhang, Renmin University, *Poster #054: Estimating heat-related mortality in the U.S. and in China using downscaled climate projections.*
- Manjur Ahmed, MS,MPA,MBA\*, Research Student ,Doctor of Business Administration ,Institute of Business Administration,University of Dhaka; Md. Humayun Kabir, PhD, Professor,Department of Geography and Environment,University of Dhaka, *Poster #055: Environmental Impacts of the Meghna Dhonagoda Irrigation Project: A Case Study of Matlab sub-district, Chandpur, Bangladesh.*
- Savannah Sanford\*, Graduate School of Geography, Clark University; John Rogan\*; Arthur Elmes\*; Deborah G. Martin\*, *Poster #056: Modelling urban tree vulnerability to environmental hazards and climate change in Worcester, Massachusetts.*
- John G. Hintz\*, Bloomsburg University of Pennsylvania, *Poster #057: Teaching Sustainability: Methods and Lessons from the Bloomsburg University Outdoor Classroom.*
- Stephen R. Cameron\*, Western Michigan University, *Poster #058: Protected Area Boundaries and Spatial Patterns of Deforestation Leakage: A Case Study of Brazil's Middle Juruá Extractive Reserve.*
- Weishi Zhang\*, Chinese University of Hong Kong, *Poster #059: Measure and narrow the gaps between reality and ideal: residential black carbon mitigation in rural China.*
- Adam Ereth\*, University of South Carolina; Steve Hirsch, P.E., Seabrook Island Property Owners Association; Grace Wachowski, Clemson University, *Poster #060: "Money Goes Where Stormwater Flows - Reconceptualizing the Prioritization of Stormwater Infrastructure Rehabilitation on Seabrook Island, SC".*
- Kalina Hildebrandt\*, University of Wisconsin-Platteville; Evan R. Larson, PhD, University of Wisconsin-Platteville;

## THURSDAY, April 31 • Poster Sessions

- Thomas C. Wilding, MS, University of Wisconsin-Platteville, *Poster #061: The Many Faces of Peels: Defining a Normalized Language for Describing Culturally-Modified Trees in the Great Lakes Region.*
- Jing Shen\*, Sun Yat-sen University, *Poster #062: The role of Chinese ENGOs on the location of pollution-intensive enterprises (PIE), Case of PX project in Xiamen and Kunming.*
- Kamal Puri\*, Prakriti Consult (P) Ltd., *Poster #063: Vulnerability Assessment of Nepalese Farmers due to Climate Change.*
- Joshua Brian Hodge, Ph.D. student\*, Texas State University, *Poster #064: Intense hurricane strikes serve as geologic agents on a Southeast Texas Gulf Coast marsh.*
- Kayla Snellenberger\*, *Poster #065: Biomass Energy Potential in the United States.*
- Kathy Cappelli\*, *Poster #066: Demographics of High Wildfire Risk Tracts in Southern California.*
- Kendra K. McLauchlan\*, Kansas State University; Laci M. Gerhart, University of Hawaii; John J. Battles, University of California-Berkeley; Joseph M. Craine, Jonah Ventures, LLC; Andrew J. Elmore, University of Maryland; Philip E. Higuera, University of Montana; Michelle C. Mack, Northern Arizona University; Brenden E. McNeil, West Virginia University; David M. Nelson, University of Maryland; Neil Pederson, Harvard Forest; Steven S. Perakis, United States Geological Survey, *Poster #067: Centennial-scale reductions in nitrogen availability in temperate forests of the United States.*
- Amanda Mae Hefner\*, Department of Geography and GISc, University of North Dakota - Grand Forks, ND; Noah Robert Irby\*, Department of Geography and GISc, University of North Dakota - Grand Forks, ND; Bradley C. Rundquist, Department of Geography and GISc, University of North Dakota - Grand Forks, ND; Michael A. Niedzielski, Department of Geography and GISc, University of North Dakota - Grand Forks, ND; Morgen W.V. Burke, Department of Geography and GISc, University of North Dakota - Grand Forks, ND, *Poster #068: Characteristics and Geography of Oil Spills in Western North Dakota, 2014-2016.*
- Alicia Maria Campo\*, National Scientific and Technical Research Council (CONICET) - Universidad Nacional del Sur (UNS) - ARGENTINA; Valeria Soledad Duval, National Scientific and Technical Research Council (CONICET) - Universidad Nacional del Sur (UNS) - ARGENTINA, *Poster #069: The natural heritage of protected areas in the province of La Pampa, Argentina.*
- Zhenguo Niu\*, Institute of Remote Sensing and Digital Earth, Chinese Academy of Science; Jingwen Wang, Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, *Poster #070: Researches on changes of tidal flats across Yancheng city, China.*
- Meredith Christine Schosky\*, Furman University; Isabel Griffin Burdge, Furman University; Kristina Marie Benson, Furman University; Josephine A Newton, Furman University, *Poster #071: An Evaluation of Biodiversity through Organic System Plans.*
- Amanda Leigh Richey\*, Department of Earth & Environmental Sciences, Furman University; C Brannon Andersen, PhD, Department of Earth & Environmental Sciences, Furman University; Gregory P. Lewis, PhD, Biology Department, Furman University, *Poster #072: Biogeochemistry of a Small Impoundment in a South Carolina Agricultural Watershed.*
- Madhav Giri\*, Tribhuvan University, Nepal; Sujesh Shrestha, Tribhuvan University, Nepal; Neelam Sharma Rijal, Alternative Energy Promotion Center, Nepal, *Poster #073: Impacts of climate change in the livelihood of Chepang communities of Nepal.*
- Christopher King\*, West Virginia University, *Poster #074: Leaf Angle Variability Within an Oak-Hickory Forest.*
- Peter T Soule, Professor\*, Appalachian State University; Paul Knapp, Professor, University of North Carolina-Greensboro; Justin Maxwell, Assistant Professor, Indiana University, *Poster #075: Growth Responses of Ponderosa Pine to Warming Climatic Conditions along Elevational Gradients in the Northern Rockies, USA.*
- Thomas Patterson\*, UNC-Greensboro; Paul Knapp, Ph. D., University of North Carolina at Greensboro, *Poster #076: Longleaf Pine Masting, Northern Bobwhite Quail, and Tick-Borne Diseases in the Southeastern United States.*
- Chunhong Zhao\*, Texas State University - San Marcos - San Marcos, TX, *Poster #077: Overview of the spatial mapping and time series analysis of Land Surface Temperature.*
- Xue Dai, Master, Nanjing Institute of Geography and Limnology, Chinese Academy of Sciences; Guishan Yang, Doctor, Nanjing Institute of Geography and Limnology, Chinese Academy of Sciences; Rongrong Wan, Doctor\*, Nanjing Institute of Geography and Limnology, Chinese Academy of Sciences, *Poster #078: Exploring the Potential Impact of Seasonal Water-level Fluctuations on the Distribution of Wetland Vegetation in Poyang Lake, China.*
- Kira Janee Kuehl\*, University of Wisconsin - Eau Claire; Garry Leonard Running, University of Wisconsin - Eau Claire; Elizabeth Fedewa, University of Wisconsin - Eau Claire, *Poster #079: Geoarchaeological Investigations of Glacial Lake Agassiz and Holocene Alluvial Deposits within the Buffalo River Valley, Northwestern Minnesota.*
- Allison Mae Vincent\*, University of Wisconsin Eau Claire; Douglas J. Faulkner\*, University of Wisconsin-Eau Claire; Kira Janee Kuehl, University of Wisconsin-Eau Claire, *Poster #080: Patterns of Gravel-Bed Fining on the Lower Chippewa River, West-Central Wisconsin.*
- Austin L. Boardman\*, Department of Geography, Oklahoma State University; Brian Birchler, Department of Geography, Oklahoma State University; Todd Fagin, PhD, Oklahoma Biosurvey, University of Oklahoma; Peter Kedron, PhD, Department of Geography, Oklahoma State University; Michael Larson, Department of Geography, Oklahoma State University; Jacqueline M. Vadjunc, PhD, Department of Geography, Oklahoma State University, *Poster #081: Surviving "No Man's Land": Using Historical Geographic Information Systems (HGIS) to explore family history, resource access and land-use/land-cover change in Cimarron County, Oklahoma.*
- Grant Harley\*, University of Tennessee, *Poster #082: Investigations of a Pleistocene Taxodium distichum forest in the northern Gulf of Mexico and implications for current sea level rise.*
- Natalie Trivino\*, University of Denver, *Poster #083: Flooding and Vulnerability in the Colorado Front Range: A Literature Review.*
- Luisa Aebersold\*, University of Texas at Austin; Samantha Krause, University of Texas at Austin; Brittany Mitchell, University of Texas at Austin; Timothy Beach, University of Texas at Austin; Sheryl Luzzadder-Beach, University of Texas at Austin, *Poster #084: Playing with Fire: Working with Microcharcoal Methods for use as an Environmental Proxy for Neotropical Sediments.*
- Evan Michael McWreath\*, West Virginia University; Garrett Pullis, West Virginia University; Melissa Braham, West Virginia University; Michael Lanzone, Cellular Tracking Technologies; Andrew McGann, Cellular Tracking Technologies; Jonathan Hall, West Virginia

## FRIDAY, April 7 • Poster Sessions

- University, *Poster #085: Collateral damage: spatial dynamics of lead exposure in California Condors.*
- Randy Alan Knoll\*, University of North Carolina - Wilmington; Eman Ghoneim, Dr., University of North Carolina Wilmington; Scott Nooner, Dr., University of North Carolina Wilmington; Yvonne Marsan, University of North Carolina Wilmington, *Poster #086: Final Report on Geospatial and Geophysical survey at Fort Caswell, North Carolina.*
- Gehendra Kharel, PhD\*, Oklahoma State University; Chris Zou, PhD, Oklahoma State University; Sam Fuhlendorf, PhD, Oklahoma State University; Omkar Joshi, PhD, Oklahoma State University; Ron Miller, PhD, Oklahoma State University; Richard Melstrom, PhD, Oklahoma State University; Tracy Boyer, PhD, Oklahoma State University, *Poster #087: Coupling Natural and Human Systems: An Integrated Modeling Approach in Oklahoma, USA.*
- Yanjun Zhu\*, Salem State University; Yanjun Zhu, graduate student, Salem State University, *Poster #088: Flood hazard analysis for the Huangpu River in Shanghai.*
- Noriyuki Sato\*, California State University, Chico, *Poster #089: The Impact of a Changing Climate on Agriculture and Transportation Infrastructure.*
- Jared Schenkel\*, Rutgers University, *Poster #090: Assessing the Response of Northeastern U.S. Fisheries to Climate Change.*
- Benjamin Franek, Ph.D.\*, Bloomsburg University; Daryl Wenner, Ph.D., Bloomsburg University, *Poster #091: A Tale of Two Sites: The Good, the Bad, & the Educational.*
- Suzanne Lynn Meek, GISDE M.S. Candidate\*, Clark University; John Rogan, Ph.D., Associate Professor of Geography, Clark University, *Poster #092: Mapping Vulnerability of Marine Biodiversity to Human Impacts and Climate Change in the Indo-Pacific Region.*
- Quentin A. Stubbs\*, University of Maryland - College Park; In-Young Yeo, PhD, The University of Newcastle, Australia; Megan Lang, PhD, U.S. Fish & Wildlife Service; Claire Jantz, PhD, Shippensburg University; Karen Prestegard, PhD, University of Maryland - College Park; Laixiang Sun, PhD, University of Maryland - College Park, *Poster #093: A Spatial-temporal Analysis of Section 404 Permitting on the Delmarva Peninsula: Tracking Thirty Years of Wetland Change and Management.*
- Hyeondeok Kim\*, Spatial Information Research Institute, Korean Land And Geospatial Informatix Corp.; JunSeok LEE, Spatial Information Research Institute, Korean Land And Geospatial Informatix Corp.; InSu LEE, Spatial Information Research Institute, Korean Land And Geospatial Informatix Corp., *Poster #094: The study on the insurance rate map of the Storm and Flood Hazard Risks.*
- Brian Giroux\*, University of Michigan - Dearborn; Jacob Napieralski, University of Michigan - Dearborn, *Poster #095: Analysis of Transportation Infrastructure Influence on Watershed Boundary and Stream Network: A Case Study of the Rouge River Watershed, Michigan.*
- Andrew J. Sutphen\*, Rutgers University, *Poster #096: Mapping Change Among Northeast U.S. Communities at Sea.*
- Andria Aguilar\*, Syracuse University, *Poster #097: Certified Organic: the alternative agri-food network for Bolivian quinoa.*
- Andrew MacNichol\*, Salem State College; Andrew MacNichol, Salem State University, *Poster #098: The Feasibility of Wind Turbine in Salem, MA.*
- Elizabeth Cowdery\*, Boston University; Michael Dietze, Dr., Boston University, *Poster #099: Accessible tools for Multi-Model Benchmarking: Evaluating Productivity Predictions Under Elevated CO2 Conditions.*
- Brittany B Laginhas\*, University of Massachusetts - Amherst; Nicole M Pawell\*, University of Massachusetts - Amherst; Bethany A Bradley, University of Massachusetts - Amherst, *Poster #100: Quantifying spatial and taxonomic biases in invasion ecology research.*
- Emily E Kirby\*, Earth and Environmental Sciences, Furman University; C Brannon Andersen, Earth and Environmental Sciences, Furman University; John E Quinn, Biology, Furman University; Gregory P Lewis, Biology, Furman University; Phoebe L Ferguson, Earth and Environmental Sciences, Furman University; Miles Hauser, Earth and Environmental Sciences, Furman University, *Poster #101: Impact Of Rotational Grazing On Soil Fertility On Greenbrier Farms In Easley, South Carolina.*
- Arianna Hall-Reinhard\*, West Virginia University, *Poster #102: How Deadly is Tornado Alley? Myths and Misperceptions of Tornado Fatality Risks in America.*
- Abdulrahman Aldukhayil\*, Qassim University, *Poster #103: Signs of Ground Water Contamination By Sewage and Irrigation Water in Some Wells Within the Urban Zone of Almithnab city, Saudi Arabia.*
- Heather Christine Co\*, San Francisco State University; Tendai Chitewere, Ph.D, San Francisco State University, *Poster #104: The Impact of Waste Management Policy on Marine Debris: A Case Study in San Mateo County.*
- Sydney Opondo Oluoch\*, Montclair State University, *Poster #105: Quantitative Review of Renewable Energy in Sub-Saharan Africa.*
- V. Miranda Chase, PhD Student\*, University of Massachusetts - Boston; V. Miranda Chase, PhD Student, University of Massachusetts Boston, *Poster #106: Fishing Agreements In The Lower Amazon Basin: Promoting Sustainable Development Or Simply Securing Environmental Conservation? An Analysis Of Communitarian Fishing Agreements And Arapaima Management In Light Of Iwrm Principles.*
- Hagan Capnerhurst\*, Furman University; Elizabeth Burke\*, Furman University; Courtney Quinn, Ph. D. Leadership Studies, Furman University; Karen Allen, Ph. D. Cultural Anthropology, Furman University; John Quinn, Ph.D. Natural Resources, Furman University, *Poster #107: Estimating sustainable agriculture values in the Upstate, SC using stated choice experiments.*
- Joseph F. Terrano\*, University of South Florida, Tampa; Kathryn E.L. Smith, Ph.D, U.S. Geological Survey; Nicole Khan, Ph.D, U.S. Geological Survey; Christopher Smith, Ph.D, U.S. Geological survey; Ping Wang, Ph.D, University of South Florida, Tampa; Jonathan Pitchford, Ph.D, Mississippi Department of Marine Resources, Grand Bay National Estuarine Research Reserve, *Poster #108: An evaluation of marsh shoreline erosion and sediment deposition in the Grand Bay National Estuarine Research Reserve, Mississippi, USA.*
- Aashka Patel\*, University of South Carolina; Greg Carbone, University of South Carolina, *Poster #109: Producing Contextual Climate Change Information for Strategic Water Supply Planning.*
- Ibrahim M. Oroud\*, Mu'tah University, *Poster #110: The implications of recent global warming on meteorological and hydrological drought in the eastern Mediterranean.*
- Amnah Elaji\*, University of Missouri - Kansas City, *Poster #111: Monitoring Dust Storms in Saudi Arabia and its Correlation with Dry Climate. Is it increasing due to the drought?.*
- Ying Tang\*, Department of Geography, Environment, and Spatial Sciences, Michigan State University; Julie Winkler, Department of Geography, Environment, and Spatial Sciences, Michigan State University; Jianguo Liu, Center for Systems Integration and Sustainability, Department of Fisheries and Wildlife, Michigan State



## FRIDAY, April 7 • Poster Sessions

- University; Andrés Viña, Department of Geography, University of North Carolina; Yuanbin Zhang, Institute of Mountain Hazards and Environment, Chinese Academy of Sciences, Chengdu, China; Fang Wang, Center for Systems Integration and Sustainability, Department of Fisheries and Wildlife, Michigan State University; Jindong Zhang, Center for Systems Integration and Sustainability, Department of Fisheries and Wildlife, Michigan State University; Zhiqiang Zhao, Center for Systems Integration and Sustainability, Department of Fisheries and Wildlife, Michigan State University, *Poster #112: Choice of baseline climate data alters projections of species distributions under climate change.*
- JIE HAN\*, *Poster #113: Pattern and key factors of post-fire community assembly of Yunnan pine forest in Southwest China.*
- Katherine Hayes\*, University of Oregon; Daniel Gavin, PhD, University of Oregon, *Poster #114: Marine fog and Climate Change in Coast redwood (Sequoia sempervirens) forests.*
- Alexa J Dugan\*, USDA Forest Service, University of Florida; Richard Birdsey, USDA Forest Service; Vanessa S Mascorro, Commission for Environmental Cooperation; Werner A Kurz, Natural Resources Canada; Marcela Olguin, Commission for Environmental Cooperation; Carolyn E Smith, Natural Resources Canada; Michael Magnan, Natural Resources Canada; Kevin McCullough, USDA Forest Service, *Poster #115: Assessment of forest carbon stocks and climate change mitigation strategies across multi-ownership landscapes in the U.S..*
- Jonathan C. Hall\*, West Virginia University; Haley E Mutz, West Virginia University; Mark Hare, West Virginia University; Melissa Braham, West Virginia University; Michael Lanzone, Cellular Tracking Technologies, *Poster #116: Trashed condors: spatial dynamics of microtrash sites and California Condor movement ecology in southern California.*
- Ahmad Khan\*, University of Maryland - COLLEGE PARK, MD; Matthew C. Hansen, University of Maryland, College Park; Peter Potapov, University of Maryland, College Park; Stephen V. Stehman, SUNY College of Environmental Science and Forestry, Syracuse, NY; Ashfaq Ahmad Chattha, University of Agriculture, Faisalabad, *Poster #117: Wheat area estimation from Landsat data in heterogeneous cropping system of Punjab, Pakistan.*
- Andrew Dawson, PLA\*, WRT, *Poster #118: Making Geography Visible.*
- Lauren Geffert\*, Texas Christian University; Michael C Slattery, Texas Christian University; Katrina Klawiter, Texas Christian University, *Poster #119: Community-based wildlife conservation models and their application to the rhino crisis in South Africa.*
- Dawn M Nekorchuk, MSPH\*, University of Florida; Lillian R. Morris, PhD, University of Florida; Eric R Dougherty, University of California, Berkeley; Cody Griffin, University of Florida; Anni Yang, University of Florida; Emily T Dinh, University of Florida; Eve T Bohnett, University of Florida; Kelly M Proffitt, PhD, Montana Department of Fish, Wildlife, and Parks; Sadie J Ryan, PhD, University of Florida; Jason K Blackburn, PhD, University of Florida, *Poster #120: Effects of Available Area Definitions and Animal Movement Pattern Types in Resource Selection Functions.*
- Rafter Sass Ferguson, PhD\*, Haverford College, *Poster #121: Livelihoods on US Permaculture Farms.*
- Sophie Fuchs\*, University of Texas at Austin, *Poster #122: The Diffusion of Modern Organic Agriculture in Ecuador.*
- Jason P. Holcomb, Ph.D.\*, Morehead State University, *Poster #123: Mapping the Legacy of Campbell Farming Corporation on the Landscape of Big Horn County, Montana.*
- Gigi M. Berardi\*, Huxley College, Western Washington University; Rebekah Paci-Green, Huxley College, Western Washington University, *Poster #124: Food Resilience Strategies: Food Security and Local Foods in Washington State.*
- Mariana Cecilia Valencia Mestre\*, University of Michigan; Bruce Ferguson, PhD, El Colegio de la Frontera Sur; John Vandermeer, PhD, University of Michigan, *Poster #125: Sudden change in silvo-pastoral systems: relaxing the linear and monotonic assumptions.*
- Charles W. Lafon\*, Texas A & M University; Adam T Naito, University of Arizona; Henri D. Grissino-Mayer, University of Tennessee; Sally P. Horn, University of Tennessee; Thomas A. Waldrop, U.S. Forest Service, Southern Research Station (ret.), *Poster #126: Fire History of the Appalachian Mountains: A Synthesis.*
- Christopher M. Gentry\*, Austin Peay State University; Peter M. Brown, Rocky Mountain Tree-Ring Research; Qichao Yao, Northeastern Forestry University, *Poster #127: Historical and Current Fire Regimes in Zion National Park, Utah: Restoration of Process and Pattern after a Century of Fire Exclusion.*
- James M. Eager\*, Hofstra University; Sara Hicks, Hofstra University; Jase Bernhardt, PhD, Hofstra University, *Poster #128: Analyzing 19th Century Weather Patterns from Historical Diaries.*
- John T. Hayes, Ph.D.\*, Salem State University, *Poster #129: Thinking Pedagogically About Water: Global Change, Sustainability and the Hydro-Social Cycle.*
- Kent M. McGregor\*, University of North Texas, *Poster #130: Reanalysis of the Dust Bowl Drought.*
- Sabrina Arnold, Minnesota State University, Mankato and Karlsruhe University of Applied Sciences; Andrew Brown, Minnesota State University, Mankato; Phillip H. Larson\*, Minnesota State University; Ronald C Schirmer, Minnesota State University, Mankato, *Poster #131: A machine-learning geospatial methodology for identifying Native American burial mounds and earthworks from high resolution LiDAR datasets, Minnesota, USA: Implications for research in Geoarcheology and Geomorphology..*
- Xi Chen\*, University of Cincinnati; Shiyu Gong, University of Cincinnati; Susanna Tong, University of Cincinnati, *Poster #132: Human-environment interactions in the Lake Okeechobee Watershed.*
- Angelica Maria Gomez\*, University of North Carolina - Chapel Hill; Erika Wise, University of North Carolina - Chapel Hill; Diego A Riveros-Iregui, University of North Carolina - Chapel Hill, *Poster #133: Citizen Science to Improve Understanding of Aquifer Dynamics and Water Quality in a Rural Community.*
- Orlando Rios\*, University of Puerto Rico, Rio Piedras Campus, *Poster #134: An outreach to the Leeward Netherlands Antilles: Understanding the Vulnerabilities of the Physical & Human Geography towards Oil Spills..*
- Adam Donaldson\*, University of Wisconsin-Platteville; Evan Larson, University of Wisconsin - Platteville, *Poster #135: The Historical Role of People in Influencing the Fire Regime of an Old Growth Red Pine Stand in Northern Minnesota.*
- Britta Lee Schumacher\*, University of California, Santa Barbara, *Poster #136: Agrobiodiversity, Climate Change & Conservation: A Preliminary Assessment.*
- Gabriela E. Shirkey\*, Michigan State University; Jiquan Chen, Michigan State University; Ranjeet John, Michigan State University; Hogeun Park, Michigan State University; Maowei Liang, Inner Mongolia University; Vincenzo Giannico, University of Bari, *Poster #137: Contributions of tree mortality to C accumulation in an*



## FRIDAY, April 7 • Poster Sessions

- Oak Savanna System: A decadal summary.*  
 Megan E. Blaney\*, United States Military Academy, *Poster #138: Water Quality Challenges in Informal Settlements.*  
 Angel David D Cruz Baez, Professor\*, University of Puerto Rico; Orlando Santaella, Graduate Student, University of Puerto Rico, *Poster #139: The model forest project for Puerto Rico.*  
 Chandana Mitra\*, Auburn University; Seth Greer, Auburn University; Li Dong, Auburn University; Ethan Burt, Auburn University, *Poster #140: Land Surface Temperature Analysis to Determine Urban Heat Island Intensification Caused by Atmospheric Blocking-Associated Drought and Heat Waves.*  
 Bob Roga Nakileza\*, Makerere University, *Poster #141: Enhancing resilience to landslide disaster risks through rehabilitation of slide scars by local communities in Mt Elgon, Uganda.*

\*\*\* Continued into next slot, 3520

## FRIDAY, April 7 • 8:00 AM - 9:40 AM • 3100

Poster Sessions for Friday are located on pages 242-251.

### 3101. WORKSHOP: Distilling and Communicating Your Research with COMPASS (Sponsored by Water Resources Specialty Group)

*Room:* Room 101, Hynes, Plaza Level (Panel Session)  
 ORGANIZER(S): Brian C. Chaffin, University of Montana; Meg Gilley, COMPASS  
 CHAIR(S): Meg Gilley, COMPASS  
 Discussant(s): Meg Gilley, COMPASS  
 Panelists: Brian C. Chaffin, University of Montana; Joseph H. Hoover, University of New Mexico; Martin W. Doyle, Duke University; Dawn J. Wright, Esri

### 3102. Food Justice in the Changing City 1 (Sponsored by Geographies of Food and Agriculture Specialty Group)

*Room:* Room 102, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): Yuki Kato, Georgetown University; Justin Sean Myers, Marist College; Sofya Aptekar, University of Massachusetts - Boston  
 CHAIR(S): Alison Alkon, University of California, Davis  
 8:00 Justin Sean Myers, Ph.D.\*, Marist College, *Living in the Neoliberal City: Gardening as an Everyday Act of Resistance.*  
 8:20 Sofya Aptekar, PhD\*, University of Massachusetts - Boston, *Cultivating Diversity: Neighborhood Change and Place-Making in an Urban Community Garden.*  
 8:40 Sig J. Langeegger\*, Akita International University, *Territory, Rights, and Belonging: Community Gardens and Neighborhood Legitimacy in North Denver.*  
 9:00 Prita Lal, PhD\*, Stony Brook University; Prita Lal, PhD, Stony Brook University, *"Community Gardens in New York City: Gentrification, Racism, and the Appropriation of Community Built Wealth".*  
 9:20 Charlotte Glennie\*, University of California - Davis, *Site Security in Seattle's P-Patch Program.*

### 3103. Cultural Geographies

*Room:* Room 103, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Maria Fadiman, Florida Atlantic University

8:00 Rubia Valente, Ph.D.\*, The University of Texas at Dallas, *The Pursuit of Happiness: Afro-descendants' subjective well being in Latin America.*

8:20 Kyu Hye Cho\*, Department of Geography, Kyunghee university; Sang-Hyun Chi, Assistant Professor, Kyunghee university, *Spatial completion of modern death by change in residential form: focused on deconstruction in identity of 'HOME' as 'a place of death'.*

8:40 Madhushree Das, Dr.\*, Gauhati University; Lekha Borah, Gauhati University, *Witch Hunting - A Heinous Social Crime of Assam, India.*

9:00 Margaret Ann Knox, Ph. D.\*, Sitting Bull College, *The Complicated Relationship between the Lakota/Dakota and /Crow and the Buffalo.*

9:20 Maria Fadiman, PhD\*, Florida Atlantic University; Michael Thomas, PhD, University of Hawaii, *Globalization and Palau: Case study of the syncretic Ngasech (First Born) ceremony.*

### 3104. Regulation, Politics, and the Environment

*Room:* Room 104, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Taylor Wiczerak, Montclair State University

8:00 Agostino Mantegna, PhD\*, Independent scholar, *The territorial expression of political clientelism: California and Southern Italy sub-state politics compared.*

8:20 Teresa Bornschlegel\*, Clark University, *Who, how, and what decides the budget for environmental protection agencies? A case study of Ecuador's Ministry of Environment and state budget.*

8:40 Seyedreza Fateminasab\*, Virginia Polytechnic Institute & State University, *Reprioritizing LEED for Neighborhood Development Criteria Based on the Local Considerations of Iran.*

9:00 Martin F. Burgess, Ma (Cantab), MSc, ACA\*, Aberystwyth

**FRIDAY, April 7 • 8:00 AM - 9:40 AM • 3100**

University, *Implementation of Personal Carbon Allowances*.

- 9:20** Taylor Wiczerak\*, Montclair State University; Pankaj Lal, PhD, Montclair State University - Montclair, NJ, *Contingent Valuation of Green Infrastructure in Elizabeth, New Jersey*.

**3105. Indigenous and marginalized groups (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme)**

**Room:** Room 105, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Mainstreaming Human Rights

CHAIR(S): Hillary Beattie, University of Winnipeg

- 8:00** Hong Jiang, Dr.\*, University Of Hawaii, *China's Persecution of Falun Gong: What Do We Know, and Why Don't We Hear about It?*.

- 8:20** Sahab Deen, Ph.D.\*, Jawaharlal Nehru University, *The Scheduled Castes, who are Denotified: An Analysis of Socio-Economic Condition of Ex-Criminal in Delhi Metropolitan Area*.

- 8:40** Andrew Curley, Ph.D.\*, University of North Carolina at Chapel Hill, *"Tó éíí béé íína": the struggle for water in the Navajo Nation*.

- 9:00** Hillary Beattie\*, University of Manitoba; Vina Brown, North West Indian College; Ian Mauro, University of Winnipeg; Frank Brown, Heiltsuk Nation, *"Pulling Together to Gather Strength": Telling Stories of Cultural Resurgence and Resilience in Heiltsuk Territory*.

**3106. Geographies of the conservative Other (Sponsored by Late-Breaking News Special Session Track)**

**Room:** Room 107, Hynes, Plaza Level (Panel Session)

ORGANIZER(S): Adam Jadhav, University of California - Berkeley

CHAIR(S): Adam Jadhav, University of California - Berkeley

Introducer: Adam Jadhav

Discussant(s): Chad Newbrough Steacy, University of Georgia

Panelists: Jeffrey Vance Martin, University of California - Berkeley; Gina K. Thornburg, Kansas State University; Annalena Di Giovanni, University of Cambridge

**3107. Hydroscaapes I (Sponsored by Energy and Environment Specialty Group)**

**Room:** Room 108, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Michael Minn, Eastern Washington University

CHAIR(S): Michael Minn, Eastern Washington University

- 8:00** Karin Schauman\*, University of Illinois - Chicago; Nabil Nazha, PhD, University of Illinois at Chicago, *Cities in the Name of Progress. The Construction of the Itaipu Hydroelectric Dam and Its Impact on the Production of Space at the Border Between Paraguay and Brazil (1960-2016)*.

- 8:20** Sokvisal Kimsroy\*, Kent State University, *Assessing the Impacts of a Hydropower Plant on the Livelihoods of Residents in Cambodia: The Case of the Sambor Project*.

- 8:40** Mohammad Eskandari\*, *Fueling the Hydro-dream: Political Economy of Large Dams in Iran*.

- 9:00** Synne Movik\*, Norwegian Institute for Water Research; Synne Movik, Dr, Norwegian Institute for Water Research, *Shifting discourses on dams, development and donors: A longue durée perspective on Norwegian energy aid to Nepal and Tanzania*.

**3108. Object/Feature Extraction**

**Room:** Room 109, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Charles W. Emerson, Western Michigan University

- 8:00** David McKittrick\*, Blue Marble Geographics, *Extracting 3D Features from Publicly Available LiDAR Data*.

- 8:20** Fan Shi\*, The University of Texas At Dallas; Shuang Liang,

The University of Texas at Dallas; Fang Qiu, The University of Texas at Dallas, *Object-Based Image Classification Using Ensemble Learning Algorithm*.

- 8:40** Ran Liu\*, Sun Yat-Sen University; Wenkai Li, Sun Yat-Sen University; Qian Shi, Sun Yat-Sen University, *An ensemble of classifiers based on positive and unlabelled data in one-class remote sensing classification*.

- 9:00** You Li\*, Wuhan University; Lin Li, Wuhan University, *A density-based clustering method for urban scene mobile laser scanning data segmentation*.

- 9:20** Charles W. Emerson\*, Western Michigan University; Bryan Bommersbach, .E. Upjohn Institute for Employment Research; Brett Nachman, Department of Anthropology, The University of Texas at Austin; Robert Anemone, Department of Anthropology, University of North Carolina at Greensboro, *An Object-Oriented Approach to Extracting Productive Fossil Localities from Remotely Sensed Imagery*.

**3109. Symposium on Human Dynamics in Smart and Connected Communities: Understanding Neighborhood Dynamics 1 - Transportation (Sponsored by Urban Geography Specialty Group, Spatial Analysis and Modeling Specialty Group, Transportation Geography Specialty Group)**

**Room:** Room 110, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Joseph Danko, University of Connecticut;

Elizabeth Delmelle, University of North Carolina at

Charlotte; Kevin Kane, University of California, Irvine

CHAIR(S): Elizabeth Delmelle, University of North Carolina at Charlotte

- 8:00** Isabelle Nilsson\*, University of North Carolina - Charlotte - Charlotte, NC; Elizabeth Delmelle, University of North Carolina - Charlotte - Charlotte, NC, *Transit Investments and Neighborhood Change: On the Likelihood of Socioeconomic Ascent*.

- 8:20** Elizabeth Delmelle\*, University of North Carolina at Charlotte; Isabelle Nilsson, University of North Carolina at Charlotte, *Transit Stations, Neighborhood Change, and Residential Mobility*.

- 8:40** Kevin Kane, PhD\*, University of California, Irvine, *Are the new shops or the new homes changing the neighborhood? A parcel-level analysis of changing accessibility patterns in Los Angeles County*.

- 9:00** Renaud Le Goix\*, Université Paris-Diderot; Antonin Pavard, CNRS, UMR Géographie-cités 8504; Thibault Le Corre, CNRS, UMR Géographie-cités 8504; Anne Bretagnolle, Université Pantheon-Sorbonne, *Location, location, location ? Analyzing neighborhood change where accessibility gains by public transport affect the dynamics of property transactions in the Paris metropolitan region, 1996-2014*.

- 9:20** Angus McNeill Peel\*, Oxford University, *How is the Beltline contributing to the transformation of the Old Fourth Ward? New-urbanism, gentrification and race in Atlanta*.

**3110. Epistemology of war and military geographies: Empiricism, Ethics, and Race**

**Room:** Room 111, Hynes, Plaza Level (Panel Session)

ORGANIZER(S): Rupal Oza, CUNY - Graduate Center; Madiha Tahir

CHAIR(S): Rupal Oza, CUNY - Graduate Center

Panelists: Madiha Tahir; Lisa Bhungalia, University of Pittsburgh; Ali Hamdan, UCLA; Defne Sarsilmaz, Florida International University

**3111. A mere speck of dust (Sponsored by Climate Specialty Group, Biogeography Specialty Group, Geomorphology Specialty Group)**

**Room:** Room 200, Hynes, Second Level (Paper Session)

ORGANIZER(S): Alexandra Ponette-González, University of

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North Texas  
CHAIR(S): Alexandra Ponette-González, University of North Texas

**8:00** Jeffrey A. Lee\*, Texas Tech University; Tarek Kandakji, Texas Tech University; Junran Li, University of Tulsa; Thomas E. Gill, University of Texas, El Paso; Matthew Baddock, University of Loughborough, *Land Cover and Geomorphology of Blowing Dust Sources in Oklahoma, New Mexico and Texas, USA using MODIS Imagery.*

**8:20** Junran Li\*, The University of Tulsa; Thomas Gill, University of Texas-El Paso; Tarek Kandakji, Texas Tech University; Jeffery Lee, Texas Tech University; John Blackwell, The University of Tulsa, *Blowing dust and highway safety in the Southern Plains: Identifying current and potential dust emission "hot spots".*

**8:40** Sujith Ravi\*, Temple University, *Quantifying post-disturbance dust emissions in changing landscapes.*

**9:00** Alexandra G. Ponette-González\*, University of North Texas; Joe D Collins, Texas A&M University-San Antonio; Thomas E Gill, University of Texas, El Paso; Gary A Glass, University of North Texas; Kathleen C Weathers, Cary Institute of Ecosystem Studies, *Don't Neglect the Rain: Wet Dust Deposition Across Texas.*

**9:20** Gilman Ouellette\*, PAST Laboratory, Department of Geography and Anthropology, Louisiana State University, Baton Rouge, LA; Kristine DeLong, PAST Laboratory, Department of Geography and Anthropology, Louisiana State University, Baton Rouge, LA; Achim Herrmann, Herrmann Laboratory, Department of Geology and Geophysics, Louisiana State University, Baton Rouge, LA; Chun-Yuan Huang, High-Precision Mass Spectrometry and Environment Change Laboratory (HISPEC), Department of Geosciences, National Taiwan University, Taipei, Taiwan ROC; Chuan-Chou SHEN, High-Precision Mass Spectrometry and Environment Change Laboratory (HISPEC), Department of Geosciences, National Taiwan University, Taipei, Taiwan ROC, *African Dust Plumes Recorded as Rare Earth Elemental Concentrations in Coral Microatolls.*

## **3112. Extraction, Infrastructure and Indigenous Rights (Sponsored by Ethics, Justice, and Human Rights Specialty Group, Indigenous Peoples Specialty Group)**

*Room:* Room 201, Hynes, Second Level (Paper Session)

ORGANIZER(S): RDK Herman, National Museum of the American Indian

CHAIR(S): Larry Kleitches, Georgia State University - Atlanta, GA

**8:00** Anushree Nagpal, research scholar\*, Dept of Geography, Jamia Millia Islamia; Suman Gaur, research scholar, Dept of Geography, Jamia Millia Islamia; Masood Ahsan Siddiqui, Professor and Head, Dept of Geography, Jamia Millia Islamia; Atiqua Tajdar, research scholar, Dept of Geography, Jamia Millia Islamia; Aman Arora, research scholar, Dept of Geography, Jamia Millia Islamia, *Tribes in Chhattisgarh: A Neglected Lot.*

**8:20** Tia Dafnos\*, University of New Brunswick, *The Pacification Logics of Critical Infrastructure Resilience.*

**8:40** Laura Castro-Diaz\*, Michigan State University; Maria Claudia Lopez, Michigan State University, *Downstream fishers and the impact generated by the Belo Monte Hydroelectric dam.*

**9:00** Angela K. Day, MA; PhD candidate\*, University of Toronto - Mississauga, *Intersectional Environmental Assessment: Examining the Relationship Between Resource Extraction, Health and Gender in Canada..*

**9:20** Larry Kleitches, PhD\*, Southeastern Director, Rural Geography Specialty Group; Miss Karina Walls,

Department of Geosciences, Georgia State University, *Turquoise for My Body: Repetitive Regret Along the Dakota Access Pipeline.*

## **3113. Planetary Urbanization 5: Concentrated Urbanization in Comparative Perspective**

*Room:* Room 202, Hynes, Second Level (Paper Session)

ORGANIZER(S): Christian Schmid, ETH Zurich

CHAIR(S): Kit Ping Wong

**8:00** Christian Schmid\*, ETH Zurich, *Towards a New Vocabulary of Urbanization Processes.*

**8:20** Monika Streule, ETH Zurich, *Mobile Ethnography: Toward a Grounded Comparative Perspective in Urban Studies.*

**8:40** Lindsay Sawyer\*, ETH Zürich, *Plotting Urbanization: Dualistic Territorial Regulations in Lagos and Shenzhen.*

**9:00** Naomi Clara Hanakata\*, ETH Zurich, *The Incorporation of Urban Differences In Tokyo, Mexico City, and Los Angeles.*

Discussant(s): Milica Topalovic, ETH Zurich Department of Architecture

## **3114. Working Abroad: International Job Opportunities for Geographers (Sponsored by AAG Careers and Professional Development Theme)**

*Room:* Room 203, Hynes, Second Level (Panel Session)

ORGANIZER(S): Mark Revell, American Association of

Geographers; Niem Huynh, American Association of Geographers

CHAIR(S): Niem Huynh, American Association of Geographers

Discussant(s): Katsuhiko Oda, University of Southern California

Panelists: Jeremy Tasch, Towson University; Edwin Chow, Texas State University - San Marcos; M. S. DeVivo

## **3115. Get the Knowledge You Don't Get in College: A Professional Skills Development Workshop for Entering and Excelling in Sustainable Infrastructure, Environmental and Growth Careers (Sponsored by AAG Careers and Professional Development Theme)**

*Room:* Room 204, Hynes, Second Level (Panel Session)

ORGANIZER(S): Mark Revell, American Association of

Geographers; Drew Lehman, Drew Lehman Environment and Education

CHAIR(S): Drew Lehman, Drew Lehman Environment and Education

Discussant(s): Drew Lehman, Drew Lehman Environment and Education

\*\*\* Continued into next slot, 3215

## **3116. The role of undergraduate education in the professional development of geographers (Sponsored by AAG Careers and Professional Development Theme, Applied Geography Specialty Group, Geography Education Specialty Group, Community College Affinity Group)**

*Room:* Room 205, Hynes, Second Level (Panel Session)

ORGANIZER(S): Leslie McLees, University of Oregon

CHAIR(S): Leslie McLees, University of Oregon

Panelists: Kathleen Schroeder, Appalachian State University; Sharon C. Cobb, University of North Florida; Leslie McLees, University of Oregon

## **3117. MapJam II (Sponsored by AAG Mapathon)**

*Room:* Room 206, Hynes, Second Level (Panel Session)

ORGANIZER(S): Sven Fuhrmann, George Mason University; Thomas Gertin, ActioNet; Patricia A. Solis, Texas Tech University - Lubbock, TX

CHAIR(S): Thomas Gertin, ActioNet

## **3119. Transnational Migration and Discursive Practices in the Host Society (Sponsored by Asian Geography Specialty Group, Cultural Geography Specialty Group, Ethnic Geography**



# FRIDAY, April 7 • 8:00 AM - 9:40 AM • 3100

## Specialty Group)

- Room:** Room 210, Hynes, Second Level (Paper Session)  
 ORGANIZER(S): Su-Jeong Kim, Ewha Womans University  
 CHAIR(S): Jiyeon Shin, The University of Tokyo
- 8:00** Jiyeon Shin, Ph.D. Candidate\*, The University of Tokyo; Youngmin Lee, Professor, Ewha Womans University, *Transformation of Ethnic Enclave by Negotiations of Trans-migrants' Ethnic Groups in Flushing Koreatown, New York City.*
- 8:20** Su-Jeong Kim, Ph.D Candidate\*, Ewha Womans University, *Ethnic Diversity, Competition and Negotiations in the Garment Industry, Los Angeles.*
- 8:40** Hyunseo(Helene) Park, Graduate Student\*, Ewha W. Univ., *Muslim Ethnicity and 'Doing Halal' in Korea: Discursive Practices of Halal Food Globalization.*

## 3120. Human Geography Poster Session II

Posters for this session can be found on pages 242-245.

**Room:** Hall C, Hynes, Second Floor (Poster Session)

\*\*\* Continued into next slot, 3220

## 3121. Special Sessions on: Geographic Data Science III

- Room:** Room 301, Hynes, Third Level (Paper Session)  
 ORGANIZER(S): Alex Singleton; Daniel Arribas-Bel  
 CHAIR(S): Daniel Arribas-Bel
- 8:00** Guanpeng Dong\*, University of Liverpool, *Discontinuous spatial continuity: developing an adaptive spatially varying coefficients model.*
- 8:20** Rene Westerholt\*, Heidelberg University, *Topological and scale-related issues in Twitter analyses through superimposed forms of spatial heterogeneity.*
- 8:40** Michalis Pavlis\*, University of Liverpool; Les Dolega, University of Liverpool; Alexander Singleton, University of Liverpool, *Modeling retail agglomeration and extent.*
- 9:00** Ed Manley\*, University College London; Chen Zhong, King's College London, *Analysing the Spatial and Temporal Influences Behind Why We Tip.*
- Discussant(s): Daniel Arribas-Bel

## 3123. Recent Histories of Geography (Sponsored by History of Geography Specialty Group)

- Room:** Room 303, Hynes, Third Level (Paper Session)  
 ORGANIZER(S): Matthew Liesch, Central Michigan University  
 CHAIR(S): Matthew Liesch, Central Michigan University
- 8:00** Robert J. Legg, PhD\*, Northern Michigan University, *Renaming a geography department to increase visibility and perceived scope, strategies and outcomes.*
- 8:20** Matthew Liesch\*, Central Michigan University; Benjamin W Heumann, PhD, Central Michigan University, *Trends in United States-based Geography Faculty Positions, 1990-2015.*
- 8:40** Ferenc Gyuris\*, Eotvos Lorand University (ELTE), Dept of Regional Science, Budapest (Hungary), *Post-transition and post-crisis shifts in geographies in post-Communist contexts: A Hungarian perspective.*
- 9:00** Alyson L. Greiner\*, Oklahoma State University, *Global Studies and Geography or Global Studies as Geography?.*
- Discussant(s): Frederick E. Nelson, Michigan State University

## 3124. Surviving Conflict Zones

- Room:** Room 304, Hynes, Third Level (Paper Session)  
 ORGANIZER(S): Craig Jones, UBC; Derek Gregory, University of British Columbia  
 CHAIR(S): Craig Jones, UBC
- 8:00** Delia Duong Ba Wendel\*, Harvard University, *Ecologies of Belonging in Post-Genocide Rwanda.*
- 8:20** Matthew Sparke\*, University Of Washington, *Care chain biodata and the biological sub-citizenship of kill chain refugees.*
- 8:40** Craig Jones, Dr.\*, Newcastle University, *Injury, care and*

*the therapeutic geographies of war in Iraq and Syria.*

**9:00** Derek Gregory\*, University of British Columbia, *Surgical strikes and survival in spaces of exception.*

**9:20** Ron Smith\*, Bucknell University, *Farming the Front Line: Gazan Farmers in the Landscape of Resistance.*

## 3125. Decisions and Crossroads in Human Geography Fieldwork (Sponsored by Study of the American South Specialty Group, AAG Careers and Professional Development Theme)

- Room:** Room 305, Hynes, Third Level (Panel Session)  
 ORGANIZER(S): David Butler, University Of Southern Mississippi  
 CHAIR(S): David Butler, University Of Southern Mississippi  
 Discussant(s): Matthew Cook, Eastern Michigan University  
 Panelists: Perry L. Carter, Texas Tech University; Stephen Hanna, University of Mary Washington; Emma Jay Walcott-Wilson, University of Tennessee; David Butler, University Of Southern Mississippi

## 3127. The Latin America Specialty Group and the Conference of Latin Americanist Geographers Presents: Implications of the Trump Administration for Latin American Geography (Sponsored by Latin America Specialty Group)

- Room:** Room 307, Hynes, Third Level (Panel Session)  
 ORGANIZER(S): John Finn, Christopher Newport University; Denielle Perry, University of Oregon  
 CHAIR(S): John Finn, Christopher Newport University  
 Introducer: John Finn  
 Discussant(s): Christopher Gaffney, University of Zurich; Carolyn Gallaher, American University; Nancy Hiemstra, Stony Brook University; John Finn, Christopher Newport University
- Panelists: Margath A. Walker, University of Louisville; Juan Declat-Barreto, Union of Concerned Scientists; Fernando Riosmena, University of Colorado at Boulder; Shelby Smith, School of Geography and Development, The University of Arizona; Yolanda Valencia, University of Washington; Samuel Nielson; James Eugene Baker, University of Nebraska Omaha

## 3128. New Voices in Rural Geogrpahy (Sponsored by Rural Geography Specialty Group)

- Room:** Room 308, Hynes, Third Level (Paper Session)  
 ORGANIZER(S): Sarah A. Mason-Renton, University of Western Ontario  
 CHAIR(S): Sarah A. Mason-Renton, University of Western Ontario
- 8:00** Andrew Stewart Maclaren\*, University of Aberdeen, *More-than-Representational knowledges of rural ageing.*
- 8:20** Amanda C. Marshall\*, Southern Illinois University; Leslie Duram, Ph.D., Southern Illinois University, *Assessing the Influence of Environmental NGOs on Management of the Upper Mississippi River Basin.*
- 8:40** Avantika Ramekar\*, Kansas State University, *Social impacts of Oil and Natural Gas Industry in Rural Kansas- A preliminary field assessment.*
- 9:00** Ellen Bubak\*, South Dakota State University, *Modeling Amenity-Driven Development of Former Mining Towns in the New West.*

## 3129. Methods of GIS and Spatial Analysis

- Room:** Room 309, Hynes, Third Level (Illustrated Paper Session)  
 ORGANIZER(S): Program Committee  
 CHAIR(S): Gregory S. Bohr, California Polytechnic State University, San Luis Obispo
- 8:00** Barrie Chileen\*, Augustana College, Department of Geography; Thomas P. Albright, Associate Professor, Lab for Conservation Biogeography, Department of Geography, University of Nevada Reno; Devin Jacobs, Lab for Conservation Biogeography, Department of Geography, University of Nevada Reno, *An Evaluation of Gridded Temperature Products and*



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*their Effectiveness in Modeling Small Scale Ambient Temperature.*

**8:10** Michael LeFev\*, AidData, College of William and Mary; Robert Marty, AidData, College of William and Mary; Daniel Runfola, Ph.D, AidData, College of William and Mary, *Incorporating Positional Uncertainty in Geospatial Analysis.*

**8:20** Galina Yamskikh\*, Siberian Federal University, *Holocene Climate Change In The Subzone Of The Southern Of The Priyeniseyskaya Siberia And Modern Climate Variations.*

**8:30** Sarah Ann Philbrick\*, Metropolitan Area Planning Council; Erica Issenberg, Clark University, *Empirical Probability versus Empirical Likelihood: An examination of suitability calculations.*

**8:40** Mingda Zhang\*, Wuhan University; Josh Lieberman, Harvard University, *An ontology-driven and service-enabled scientific workflow platform for geoprocessing.*

**8:50** Yuka Fuchino\*, Clark University; John Rogan, Ph.D, Clark University; Florencia Sangermano, Ph.D, Clark University, *Mapping habitat connectivity for three African Elephants (*Loxodonta africana*) in the Tarangire-Manyara Ecosystem, Tanzania using circuit theory modelling.*

**9:00** Bianca Gonzalez\*, Middlebury College; Joshua Lieberman, Senior Researcher, Harvard University, *A Statistical Analysis for Linked Data.*

**9:10** Toni M Kaplan\*, The Virtual Environment and Multimodal Interaction (VEMI) Laboratory At the University of Maine; Nicholas Giudice, The Virtual Environment and Multimodal Interaction (VEMI) Laboratory At the University of Maine, *Evaluation of Multimodal Scene Access Interfaces Supporting Spatial learning and Navigation.*

**9:20** Charcey Anne Petersen\*, University of Northern Iowa, *Land Use and Land Cover Change and Projection: Des Moines Metropolitan.*

**9:30** Gregory S. Bohr\*, California Polytechnic State University, San Luis Obispo, *Precipitation timing and intensity in the western United States.*

## **3130. Soil Mapping, Crops, and Image Interpretation**

*Room: Room 310, Hynes, Third Level (Paper Session)*

ORGANIZER(S): Program Committee

CHAIR(S): Raechel A. White

**8:00** Jacob M. McDonald\*, University of Georgia; David S. Leigh, Ph.D, University of Georgia, *Semi-Automated Soil Parent Material Mapping in the Southern Blue Ridge Mountains.*

**8:20** Michaela Buenemann\*, New Mexico State University; Marina Coetzee; Josephat Kutuahupira; Jeff Herrick, *Variability in soil map predictions: the need for better on-site estimates and improved downscaling of soil properties.*

**8:40** Raechel A. White\*, Michigan State University, *the importance of image interpretation in the 21st century.*

## **3131. 2017 AAG Physical Geography Symposium Session 6: Plenary Addresses: Climate History, Paleocologies (Sponsored by Paleoenvironmental Change Specialty Group, Climate Specialty Group, Geographies of Bread and Water in the 21st Century Featured Theme, Biogeography Specialty Group)**

*Room: Room 311, Hynes, Third Level (Paper Session)*

ORGANIZER(S): Timothy Beach, University of Texas at Austin; Tripti Bhattacharya; Matthew Charles Peros, Bishop's University

CHAIR(S): Kenneth R. Young, University of Texas at Austin

**8:00** Kyle G Hansen\*, Columbia University; Brendan M Buckley, Columbia University; Brian Zottoli, Loyola University Vietnam Center; Rosanne D D'Arrigo, Columbia University; Nam L Canh, Forest Science Institute of the Central Highlands and South Central

Vietnam; Vinh V Truong, Nong Lam University; Hau X Nguyen, Vietnam National Museum of Science and Technology, *Drought and Societal Turmoil over Northern Viet Nam for the Past Three Centuries: A multi-seasonal reconstruction of hydroclimate from tree rings.*

**8:20** Carlos E. Cordova\*, Oklahoma State University; Jason Joines, Clemson University; Ernest Lundelius, University of Texas at Austin, *Context and processes in the formation of the paleoecological record of Hall's Cave, Texas: focusing on pollen, spores, and phytoliths.*

**8:40** Samantha Marie Krause\*, University of Texas - Austin; Timothy Beach, Ph.D, University of Texas at Austin; Sheryl Luzzadder-Beach, Ph.D, University of Texas at Austin; Colin Doyle, University of Texas at Austin; Daniela Florez, University of Texas at Austin, *The Importance of Maya Wetlands for Human Ecology and Environmental History: Multi-Scaler Case Studies from Northwestern Belize.*

**9:00** Brendan Martin Buckley, Ph.D\*, Lamont-Doherty Earth Observatory; Rosanne D D'Arrigo, Ph.D, Lamont-Doherty Earth Observatory; Caroline C Ummenhofer, Ph.D, Woods Hole Oceanographic Institute, *The Southeast Asian Dendrochronology Project: Hydroclimate variability over the past millennium.*

**9:20** Duncan Cook, Dr\*, Australian Catholic University; Quan Hua, Dr, Australian Nuclear Science and Technology Organisation; Dan Penny, Dr, The University of Sydney, Australia; Paul Bishop, Prof, University of Glasgow, UK; Jens Fohlmeister, Dr, Universität Heidelberg, Germany, *Last millennium climate and the ancient Khmer Empire: insights from a radiocarbon-dated speleothem record from southern Cambodia.*

## **3132. Tourism and Hospitality**

*Room: Room 312, Hynes, Third Level (Paper Session)*

ORGANIZER(S): Program Committee

CHAIR(S): Anne-Marie D'Hauteserre, University Of Waikato

**8:00** Yanfang Xu\*, University of Jinan; Yanfang Xu, *Influencing Factors of Tourists' Cultural Perception.*

**8:20** Jaclyn Rohel\*, Department of Nutrition and Food Studies, *The Cultural Politics of Hospitality: Sociality and the Street in the Global City.*

**8:40** Dinesha Rasanjali Senarathna\*, Lecturer, Department of Geography, University of Kelaniya, Sri Lanka, *Responsible Nature-Based Tourism in New Zealand.*

**9:00** Foster Frempong\*, Kwame Nkrumah University of Science and Technology; Eudora Aidoo-Taylor, Takoradi Polytechnic, Takoradi, Ghana, *Ethical Dynamics Of Customers Of Hotels In Kumasi, Ghana.*

**9:20** Anne-Marie D'Hauteserre\*, University Of Waikato, *Villages Nature, France: a critical review.*

## **3133. Piety and protest: Critical geographies of faith-based social movements**

*Room: Room 313, Hynes, Third Level (Paper Session)*

ORGANIZER(S): Emma DeVries, Duke University

CHAIR(S): Jason E. VanHorn, Calvin College

**8:00** Brian R. Hennigan, Ph.D Candidate\*, Dept. of Geography, Syracuse University; Gretchen Purser, Assistant Professor, Dept. of Sociology, Syracuse University, *Jobless and Godless: The Ideological Projects of a Faith-based Job Readiness Program.*

**8:20** William Ackah\*, Birkbeck University of London, *Faith that Works? Exploring the role of African American Church Leaders in Urban Regeneration in Pittsburgh.*

**8:40** Emma DeVries\*, University of Minnesota, *Climate justice for "the least of these": Race and racialization in evangelical climate activism.*

**9:00** Claire Bolton\*, University of Georgia, *Good Gentrifiers?: How Faith-Based Groups Navigate Development and Displacement on Atlanta's South Side.*

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Discussant(s): Justin Tse, University of Washington

- 3138. Advances in Analyzing Contextual Effects on Behavior, Practice and Experience I (Sponsored by Health and Medical Geography Specialty Group, Uncertainty and Context in Geography and GIScience Featured Theme)**

**Room:** *Independence East, Sheraton, Second Floor* (Paper Session)  
 ORGANIZER(S): Mei-Po Kwan, University of Illinois at Urbana-Champaign; Tim Schwanen, University of Oxford  
 CHAIR(S): Tim Schwanen, University of Oxford  
**8:00** Andreea Ambrus, GISP\*, Temple University; Jeremy Mennis, Ph.D., Temple University; Michael J Mason, Ph.D., Virginia Commonwealth University, *The Spatial Accuracy of Activity Space Data Derived from GPS-Enabled Mobile Phones in an Urban Setting*.  
**8:20** Yoo Min Park\*, Geography and Geographic Information Science, University of Illinois at Urbana-Champaign; Mei-Po Kwan, Geography and Geographic Information Science, University of Illinois at Urbana-Champaign, *Spatiotemporal Uncertainties in Assessing Individual Exposure to Air Pollution*.  
**8:40** Yair Grinberger, Hebrew University of Jerusalem; Noam Shoval, Prof., Hebrew University of Jerusalem, *Considering Spatial Cognition in the Identification of Geographic Activity Contexts*.  
**9:00** Jiangyu Song\*, Sun Yat-Sen University; Suhong Zhou, *Impact of urban built environment on residential health situation and its neighbourhood effects in Guangzhou, China*.  
**9:20** GUIXING WEI\*, Texas State University; Benjamin F. Zhan, Texas State University, *Variability and Uncertainty Associated with Personal Environmental Exposure Assessment in Geographic Space and Time*.

- 3139. Spatial Politics: Conflicts of Preservation and Urbanism**  
**Room:** *Independence West, Sheraton, Second Floor* (Paper Session)  
 ORGANIZER(S): Patrick Haughey, Savannah College of Art and Design

CHAIR(S): Patrick Haughey, Savannah College of Art and Design  
**8:00** Alexandra Nordin\*, Savannah College of Art and Design, *A Neglected Landscape: Besh Ba Gowah, a History of Architecture and Exploitation*.  
**8:20** Patrick Haughey, PhD\*, Savannah College of Art and Design, *The Politics of Style: Historicism, Conservatism and the Aesthetics of Development*.  
**8:40** Jessica Archer\*, *Building it up, Tearing it Down: The Rise and Fall of Victory Drive's Entertainment Corridor*.  
**9:00** Ana María León\*, University of Michigan, *Detroit Resists: Actions between Activism and Academia*.  
**9:20** Leonardo Diaz-Borioli, Ph.D.\*, Estudio 3.14; Noe Rodriguez, B.Arch., Estudio 3.14; Vladimir Rubio, B.Arch., Autoridad de Espacio Público, *Trump's wall, pretty in Pink: Media dissemination of an architectural object*.

- 3140. Preparing for the Tenure Track Job and Achieving Success in Tenure-track Positions (Sponsored by AAG Careers and Professional Development Theme, Africa Specialty Group)**

**Room:** *Liberty B, Sheraton, Second Floor* (Panel Session)  
 ORGANIZER(S): Joseph Terzungwe Zume, Shippensburg University; Isaac N. Luginaah, University of Western Ontario  
 CHAIR(S): Isaac N. Luginaah, University of Western Ontario  
 Panelists: Isaac N. Luginaah, University of Western Ontario; Michael Andrew Kukral, Rose Hulman Institute Of Technology; Tonny Oyana, University of Tennessee -Memphis; William G. Moseley, Macalester College; Ian Yeboah, Miami University

- 3141. Uncertainty in Spatial Patterns (Sponsored by Geographic Information Science and Systems Specialty Group, Spatial Analysis and Modeling Specialty Group, Health and Medical**

## Geography Specialty Group, Uncertainty and Context in Geography and GIScience Featured Theme)

**Room:** *Liberty C, Sheraton, Second Floor* (Paper Session)  
 ORGANIZER(S): Rui Zhu, University of California - Santa Barbara; Kevin M. Mwenda, University of California  
 CHAIR(S): Kevin M. Mwenda, University of California  
**8:00** Xiaojun Pu\*, University of Texas At Dallas; Michael Tiefseldorf, University of Texas at Dallas, *Bayesian disease mapping based on controlling for uncertainty caused by the interregional migration effects*.  
**8:20** Chloé Bordes\*, Université de Cergy Pontoise, *Anticipating urban pressure on the energy network for a better mediation between urban planning actors and energy networks actors*.  
**8:40** Grant McKenzie\*, University of Maryland, College Park, *Place Frequency - Inverse Region Frequency*.  
**9:00** Matthew Quick\*, University of Waterloo; Guangquan Li, Northumbria University, *Identifying common and type-specific spatial patterns of crime: A Bayesian joint analysis of four crime types in London, United Kingdom*.  
**9:20** Rui Zhu\*, Department of Geography, University of California, Santa Barbara; Phaedon C. Kyriakidis, Department of Civil Engineering and Geomatics, Cyprus University of Technology; Krzysztof Janowicz, Department of Geography, University of California, Santa Barbara, *From the Geo-dipole to the Geo-multipole: A Framework of Applying Multiple-Point (Geo)Statistics for Geographic Field Analysis*.

- 3142. Economic Geography X - Evolution, Creativity, Growth and Impact**

**Room:** *Back Bay Ballroom A, Sheraton, Second Floor* (Paper Session)  
 ORGANIZER(S): Dieter Franz Kogler, University College Dublin; Pierre-Alexandre Balland, Utrecht University; Peter Kedron, Oklahoma State University  
 CHAIR(S): Pierre-Alexandre Balland, Utrecht University  
**8:00** Huiwen Gong\*, Department of Geography, Kiel University, *Buzz or quietness, what matters for creativity?*.  
**8:20** Elena Goracinova, PhD Student\*, Innovation Policy Lab, Munk School of Global Affairs University of Toronto; David A. Wolfe, PhD, Innovation Policy Lab, Munk School of Global Affairs University of Toronto, *Diversifying the Southern Ontario automotive cluster: Establishing linkages between the ICT and automotive knowledge bases*.  
**8:40** Pieter Terhorst\*, University of Amsterdam, *Two Approaches to Continuity and Change in 'Clusters' of Restaurants: Evolutionary Economic Geography and Bourdieu's Economic Sociology*.  
**9:00** Felix Claus Müller\*, Leibniz Institute for Research on Society and Space (IRS), *Moving beyond the founder in biotech entrepreneurialism. Distributed agency and the variety of enterprising individuals in geographies of innovation*.  
**9:20** Thomas Kemeny, University of Southampton; Taner Osman\*, University of California - Los Angeles, *The Wider Impacts of the High-Tech Industry: Evidence from the United States*.

- 3144. Critical Geographies of Energy Infrastructure I: Governance and Justice (Sponsored by Cultural and Political Ecology Specialty Group, Energy and Environment Specialty Group)**

**Room:** *Constitution A, Sheraton, Second Floor* (Paper Session)  
 ORGANIZER(S): Anthony Levenda, Arizona State University; Sarah E. Knuth, University of Michigan; Laura Tozer, University of Toronto  
 CHAIR(S): Anthony Levenda, Arizona State University  
**8:00** Carol Hunsberger\*, University of Western Ontario, *Energy justice and Canada's National Energy Board: A critical analysis of the Line 9 pipeline decision*.  
**8:20** Stephanie Pincetl, PhD\*, UCLA, *Building Energy Policy;*

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*Lurching into the 21st Century.*

**8:40** Remington Santiago Franklin\*, University of Arizona - School of Geography and Development, *Socio-political Dimensions of a Renewable Energy Transition in Tucson, Arizona.*

**9:00** Hudson Spivey\*, UCLA, *From Energy Colony to Regional Revolt: Decentralized Networks of Power in Fukushima, Japan.*

Discussant(s): Harriet Bulkeley, University of Durham

## **3145. Geographies of resilience and entrepreneurial cultures (1)**

*Room:* Constitution B, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Chay Brooks; Tim Vorley, University of Sheffield

CHAIR(S): Chay Brooks

**8:00** Sergi Lozano\*, Institut Català de Paleoeologia Humana i Evolució Social - IPHES; Luce Prignano, Universitat de Barcelona - UB; Salvador Antón Clavé, Universitat Rovira i Virgili - URV, *Adaptation and adaptability as emergent features of regional systems: A quantitative approach.*

**8:20** Victoria Nowak\*, University of Liverpool, *Resilience, vulnerability and entrepreneurship in Liverpool: contested concepts and power relations in the post-industrial city, through a substantivist Polanyian lens.*

**8:40** Al James\*, Newcastle University; Jane Pollard, Newcastle University; Kavita Datta, Queen Mary, University of London; Quman Akli, Max Planck Foundation for International Peace and the Rule of Law, *Recentring anaemic economic geographies of financial resilience.*

**9:00** Rikard Eriksson; Marcin Rataj\*, Umea University, *Entrepreneurial skills and regional development. How new entrepreneurs contribute to transformation of regional economy under diverging regional settings..*

**9:20** Tara Vinodrai\*, University of Waterloo; Ben Spigel, University of Edinburgh Business School, *Meeting its Waterloo? Entrepreneurship, anchor firms and the resilient region.*

## **3148. Mobile Phones: Media and Communication Geography Session VI (Sponsored by Communication Geography Specialty Group)**

*Room:* Beacon D, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Emily Fekete, Oklahoma State University  
CHAIR(S): Nathan W. Swanson, University of North Carolina-Chapel Hill

**8:00** Lesmes Alejandro Mora Jerez\*, West Chester University, *The association between clusters of cell phone towers and the prevalence of leukemia and brain cancer in the US.*

**8:20** Anu Masso\*, ETH Zürich / University of Tartu; Veronika Kalmus, University of Tartu; Signe Opermann, University of Tartu, *Shared Perceptions of Smartphone Use and Personal/Social Time Among Generation Groups in Estonia.*

**8:40** Harald Sterly\*, University of Bonn; Daniel Gerads, *'Call me in the dorm' - mobile communication and the shifting topographies of intimate relationships in Bangladesh.*

**9:00** Nathan W. Swanson\*, University of North Carolina-Chapel Hill, *Mapping and Apping in Israel-Palestine: Challenging Erasure in Jerusalem and Beyond.*

## **3149. China as Methods I (Sponsored by China Specialty Group, Asian Geography Specialty Group, Urban Geography Specialty Group)**

*Room:* Beacon E, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Yimin Zhao, London School of Economics; Yueming Zhang, University of Birmingham; Yang Yang, University of Colorado At Boulder

CHAIR(S): Yueming Zhang, University of Birmingham

**8:00** Julie Ren\*, London School of Economics; Murray Mckenzie\*, *(Extra)ordinary Beijing: On urban*

*ontologies and artistic practice.*

**8:20** Yimin Zhao\*, London School of Economics and Political Science, *Space as Method: Field Sites and Encounters in Beijing's Green Belts.*

**8:40** Junxi Qian\*, Department of Geography, The University of Hong Kong, *Provincialising the West, de-parochialising China: some reflections from China's urban centres and ethnic peripheries.*

**9:00** Xiaoran Hu\*, Queen Mary University of London, *China in the African Imaginary and the Problems of Solidarity.*

Discussant(s): Jennifer Robinson, University College London

## **3150. Unearthing identity and making place around extractive industries in West Africa (Sponsored by Cultural and Political Ecology Specialty Group, Africa Specialty Group)**

*Room:* Beacon F, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Stephen Wood, Columbia University; Robyn Davignon, University of Michigan

CHAIR(S): Stephen Wood, Columbia University

**8:00** Robyn d'Avignon, PhD\*, Department of History, New York University, *Kedoviens: Forging a "regional" identity through transnational mining protests.*

**8:20** Stephen Wood, Yale School of Forestry & Environmental Studies, *Mining activity and the erosion and re-formation of the boundaries of Niokolo Koba National Park.*

**8:40** Nikolas Sweet\*, University of Michigan, *Linguistic Resources and Mobility in Kedougou: A Perspective on Mining in West Africa.*

**9:00** Kelly Boyer Ontl\*, Iowa State University, *Senegal's Sentimental Chimpanzees: Impacts of Artisanal Gold Mining on the West African Chimpanzee's Sense of Place.*

**9:20** Jacqueline R Gerson\*, Duke University; Falaye Danfakha, Peace Corps Senegal; Helen Hsu-Kim, Duke University; Emily S Bernhardt, Duke University; Charles T Driscoll, Syracuse University, *Mapping the Fate of Quicksilver: Mercury Contamination from Artisanal Gold Mining in Senegal.*

## **3153. Capitalism, Bodies, and Space 1**

*Room:* Dalton A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Jessica Hayes-Conroy, Hobart & William Smith Colleges; Jeffrey David Blankenship, Hobart & William Smith Colleges

CHAIR(S): Jeffrey David Blankenship, Hobart & William Smith Colleges

Introducer: Jeffrey David Blankenship

**8:02** Catherine Jampel, Clark University, *Disabled Bodyminds in the Corporate Workplace.*

**8:22** Abigail Claire Barnes, PhD\*, SAGE, *Do Men Own Themselves While Women Inhabit Themselves?: Anorexia, Suburbia and Possessive Individualism in Hobbes's Liberal State.*

**8:42** Melina Packer\*, University of California, Berkeley, *Of Pests and People: Agricultural Bodyscapes in the Chemical Aftermath.*

**9:02** Jairus J Rossi, PhD\*, University of Kentucky, *The Embodied Shareholder: Community Supported Agriculture as a Wellness Intervention.*

Discussant(s): Oona Morrow, Trinity College Dublin

## **3155. Imagined Landscapes: Geovisualizing Australian Spatial Narratives, by Jane Stadler, Peta Mitchell, and Stephen Carleton - Authors-Meet-Critics Panel Session (Sponsored by Geography Education Specialty Group, Cultural Geography Specialty Group, Communication Geography Specialty Group)**

*Room:* Hampton A, Sheraton, Third Floor (Panel Session)

ORGANIZER(S): Joseph Palis, University of the Philippines-Diliman; Peta Mitchell, Queensland University of Technology



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CHAIR(S): Joseph Palis, University of the Philippines-Diliman  
 Panelists: Ian N. Gregory, Lancaster University; Ramesh C. Dhussa, Drake University; Charles Bartlett Travis, University of Texas, Arlington

**3156. Urban Land Modelling and Urban Sustainability (I)**

Room: Hampton B, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Qingxu Huang, Beijing Normal University

CHAIR(S): Qingxu Huang, Beijing Normal University

**8:00** Qingxu Huang\*, Beijing Normal University; Bin Gao, Center for Human-Environment System Sustainability(CHESS), State Key Laboratory of Earth Surface Processes and Resource Ecology(ESPRE), Beijing Normal University, Beijing, 100875, China, *Most of expanded urban areas in China has experienced environmental degradation: Evidence from multi-source remote sensing data.*

**8:20** Wenxuan Xie\*, Beijing Normal University; Qingxu Huang, Beijing Normal University, *Quantifying the potential impacts of urban expansion on synergistic losses of ecosystem services.*

**8:40** Graciela Sandoval\*, Texas State University, *Sustainable Health Academic Research Project (SHARP): Air Pollution in Urban Parks in an Online Platform.*

**9:00** Lu Tian\*, Jian Peng, *The response of ecosystem services to urbanization in metropolitan areas, a case study in Beijing.*

**9:20** YingPing Tien, Department of Geography, National Taiwan Normal University; Kuo-chen Chang, Professor, Department of Geography, National Taiwan Normal University; Nae-Wen Kuo, Professor, Department of Geography, National Taiwan Normal University, *Spatial conservation of ecological landscape-Hydrologic Responses to Land Use Change in Datu tableland of Taiwan..*

**3157. Spatio-temporal Uncertainty and Sensitivity Analysis: Methods, Applications, and Challenges (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group, Spatial Analysis and Modeling Specialty Group, Uncertainty and Context in Geography and GIScience Featured Theme)**

Room: Gardner A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Arika Ligmann-Zielinska, Michigan State University; Piotr Jankowski, San Diego State University

CHAIR(S): Arika Ligmann-Zielinska, Michigan State University

**8:00** Piotr Jankowski\*, San Diego State University; Arika Ligmann-Zielinska, Michigan State University, *Spatiotemporal Sensitivity Analysis: An Introduction.*

**8:20** Arika Ligmann-Zielinska\*, Michigan State University; Piotr Jankowski, San Diego State University, *The Dynamics of Uncertainty: Sensitivity Analysis of an Agent-Based Model of Lake Recreation.*

**8:40** Wei Liu\*, Michigan State University; Arika Ligmann-Zielinska, Michigan State University, *Using Sensitivity Analysis to Identify the Drivers of Lifestyle Change in a Spatially-Explicit Agent-Based Model of Physical Activity.*

**9:00** Seda Salap-Ayca\*, San Diego State University; Piotr Jankowski, San Diego State University, *Mirror, Mirror on the Wall, which One Is the Best Decision of Them All? An Assessment of Visualization Techniques for Displaying Spatially Explicit Quantification of Model Uncertainty.*

**9:20** Christoph Erlacher\*, University of Salzburg; Piotr Jankowski, Department of Geography, San Diego State University; Gernot Paulus, Department of Geoinformation and Environmental Technologies, Carinthia University of Applied Sciences; Karl-Heinrich Anders, Department of Geoinformation and Environmental Technologies, Carinthia University of

Applied Sciences, *A GPU-based High Performance Computing Approach for Spatially-Explicit Uncertainty and Sensitivity Analysis in Spatial Multi-Criteria Decision Making.*

**3158. Spatial Discourses of Reproduction 1: Reproduction and Technology**

Room: Gardner B, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Marcia R. England, Miami University; Helen Hazen, University of Denver; Maria Fannin, University of Bristol

CHAIR(S): Helen Hazen, University of Denver

**8:00** Josie Hamper\*, Queen Mary, University of London, *Digital spaces of reproduction: Women's use of smartphone apps for fertility and pregnancy.*

**8:20** Shelley Grant\*, Planned Parenthood NWHI, UW Seattle, *Securitising Pregnancy Futures: Analysing Shifts in the European Landscape of Genetic Prenatal Testing.*

**8:40** Marcia R. England\*, Miami University, *"Mother Nature"? Assisted Reproductive Technology and Geographies of the Body.*

**9:00** Elisabeth Militz\*, University of St. Gallen, *Close the gap: corporeal geographies of hymen reconstruction.*

**9:20** Haley Katherine Reicher\*, Dartmouth College, *In Pursuit of Health: Medical Startups and the Imagined Geographies of Developing World Healthcare.*

**3159. A Relational Poverty Authors Meet Critics: Encountering Poverty**

Room: Fairfax A, Sheraton, Third Floor (Panel Session)

ORGANIZER(S): Emma Shaw Crane, New York University

CHAIR(S): Emma Shaw Crane, New York University

Introducer: Emma Shaw Crane

Discussant(s): Sharad Chari, University of the Witwatersrand

Panelists: Ananya Roy, University of California, Los Angeles; Malini Ranganathan, American University; Nik Theodore, University of Illinois at Chicago

**3160. Pregnancy and Parenting in Academia (Sponsored by AAG Careers and Professional Development Theme, Cultural Geography Specialty Group)**

Room: Fairfax B, Sheraton, Third Floor (Panel Session)

ORGANIZER(S): Weronika A. Kusek, Northern Michigan University

CHAIR(S): Ranu Basu, York University

Panelists: Weronika A. Kusek, Northern Michigan University; Beth Schlemper, University of Toledo; Winifred Curran, DePaul University; Sujata Shetty, University of Toledo

**3161. Uncomfortable theoretical fit I: China in the lens of neoliberalism and post-colonialism (Sponsored by Political Geography Specialty Group, China Specialty Group, Economic Geography Specialty Group)**

Room: Jefferson, Sheraton, Third Floor (Panel Session)

ORGANIZER(S): Yu Zhou, Vassar College

CHAIR(S): George C.S. Lin, University of Hong Kong

Introducer: Yu Zhou

Discussant(s): Emily Yeh, University of Colorado

Panelists: Xiaobo Su, University of Oregon; Ross Christopher Doll, University of Washington - Seattle, WA; Yifan Cai, Clark University; C.P. Pow, National University of Singapore; Eric S. Sheppard, UCLA

**3162. New Eurasianisms: Liminal Geographies Between Europe and Asia (Sponsored by Russian, Eurasian Specialty Group, European Specialty Group)**

Room: Kent, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Austin Charron, University of Kansas; John Biersack, University of Kansas; Nathaniel Ray Pickett, University of Kansas

CHAIR(S): Austin Charron, University of Kansas



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**8:00** Austin Charron\*, University of Kansas, *"Crimea is Ukraine, and Ukraine is Europe": Crimean Tatars and Ukrainian National Identity since the Euromaidan.*

**8:20** Suzanne Harris-Brandts\*, MIT, *The Role of Architecture in Post-Soviet Georgia's European Aspirations.*

**8:40** James M. Smith\*, Towson University, *China's Multiple Identities and the Eurasian Silk Road(s): Tang Dynasty Chang'an and Contemporary Xi'an as Cosmopolitan Imaginaries and Discourses.*

**9:00** Brian Gilson\*, Oklahoma State University, *Dark Eyes and Dark Soil: Nationalism and Romance Literature in Contemporary Azerbaijan.*

Discussant(s): Alexander C. Diener, University of Kansas

## **3163. Engagements with the work of Dianne Rocheleau I: feminist political ecology (Sponsored by Cultural and Political Ecology Specialty Group)**

*Room:* Commonwealth, Sheraton, Third Floor (Panel Session)

ORGANIZER(S): Robin Roth, University of Guelph; Jennifer Brewer, University of New Hampshire; Katherine Foo, Pennsylvania State University

CHAIR(S): Robin Roth, University of Guelph

Discussant(s): Joni Seager, Bentley College

Panelists: Claudia A. Radel, Utah State University; Alice J. Hovorka, Queen's University; Roberta Hawkins, University of Guelph; Padini Nirmal, Clark University; Trevor Birkenholtz, University of Illinois at Urbana-Champaign

## **3165. HMGSG Peter Gould Student Paper Competition (Sponsored by Health and Medical Geography Specialty Group)**

*Room:* Tremont, Marriott, First Floor (Paper Session)

ORGANIZER(S): Marynia Aniela Kolak, Arizona State University; Michael J. Widener, University of Toronto

CHAIR(S): Marynia Aniela Kolak, Arizona State University

**8:00** Jue Wang\*, University of Illinois; Mei-po Kwan, Ph.D, University of Illinois, *Assessing Individual Environmental Exposure with the Environmental Context Cube: A Study on the Environmental Influences on Obesity.*

**8:20** Ian Kracalik\*, University of Florida; Lile Malania, National Center for Disease Control and Public Health; Mariam Broladze, National Center for Disease Control and Public Health; Jason K Blackburn, University of Florida, *Impact of livestock vaccination policy changes on the epidemiology of human anthrax.*

**8:40** Maddy Thompson\*, Newcastle University, *Mobilities of Filipino nurses: Working to leave, and leaving to work.*

**9:00** Catherine Lippi, MFAS\*, Emerging Pathogens Institute and Department of Geography, University of Florida, Gainesville, FL, USA; Anna M. Stewart-Ibarra, PhD, Center for Global Health and Translational Science and Department of Medicine, State University of New York Upstate Medical University, Syracuse, NY, USA; Ángel G. Muñoz, PhD, Atmospheric and Oceanic Sciences (AOS), Princeton University, Princeton, NJ, USA; Mercy J. Borbor, PhD, Escuela Superior Politécnica del Litoral, Guayaquil, Ecuador; Raúl Mejía, National Institute of Meteorology and Hydrology, Guayaquil, Ecuador; Keytia Rivero, National Institute of Meteorology and Hydrology, Guayaquil, Ecuador; Katty Castillo, PhD, German Diabetes Center, University of Düsseldorf, Düsseldorf, Germany; Washington B. Cardenas, Laboratorio de Biomedicina, FCV, Escuela Superior Politécnica del Litoral, Guayaquil, Ecuador; Sadie J. Ryan, PhD, Emerging Pathogens Institute and Department of Geography, University of Florida, Gainesville, FL, USA, *The Social Ecology of Dengue Presence and Burden During an Outbreak in Guayaquil, Ecuador, 2012.*

**9:20** Brittany Krzyzanowski\*, University of Minnesota -

Minneapolis; Alan Hirsch, MD; Steven Manson, PhD; Sue Duval, PhD; Nikki Oldenburg, PhD; Russel Luepker, MD, MS; Len Kne, MGIS, *Creating Exchangeable Treatment Groups for Public Health Community Intervention Trials: Zone Design and Regionalization for the Minnesota Heart Health Program Aspirin Primary Prevention Initiative.*

## **3166. Networks, Upgrading, and Structural Changes**

*Room:* Columbus 1, Marriott, First Floor (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Jacopo Canello, University of North Carolina - Charlotte

**8:00** Wei Li\*, 1. College of Urban and Environmental Sciences, Peking University, Beijing 100871, China; 2. Peking University-Lincoln Institute Center for Urban Development and Land Policy, Beijing 100871, China; Canfei He, 1. College of Urban and Environmental Sciences, Peking University, Beijing 100871, China; 2. Peking University-Lincoln Institute Center for Urban Development and Land Policy, Beijing 100871, China, *Local variety, international network intensity and firm markup.*

**8:20** Hang Chan\*, Peking University; Canfei He, Peking University, *Participation in Global Production Network and Export Product Upgrading.*

**8:40** Michele Coscia\*, Harvard University; Frank Neffke, Center for International Development, Harvard University, *Using industry spaces to study the structural change of regions.*

**9:00** Jacopo Canello\*, University of North Carolina - Charlotte; Francesco Vidoli, University of Roma Tre, *Formal cooperation and relational networks in industrial districts: the role of strategic alliances.*

## **3167. Slow Violence and the Environment I (Sponsored by Political Geography Specialty Group, Human Dimensions of Global Change Specialty Group, Energy and Environment Specialty Group)**

*Room:* Columbus 2, Marriott, First Floor (Paper Session)

ORGANIZER(S): Ruth Trumble, University of Wisconsin - Madison; Shannon O'Lear, University of Kansas

CHAIR(S): Ruth Trumble, University of Wisconsin - Madison

**8:00** Shannon O'Lear, Ph.D.\*, University of Kansas, *Climate Science and Slow Violence: Technoscientific narratives.*

**8:20** Shane Donnelly Hall\*, University of Oregon, *Slow Violence, Climate Justice, and Migration: The Narratives of the "Human Face of Climate Change".*

**8:40** Daniel Abrahams\*, University of South Carolina, *Responding to the Climate-Conflict Nexus: An Investigation of Discourses, Policy, and Implementation.*

**9:00** Hanne Svarstad\*, Oslo and Akershus University College; Tor A. Benjaminsen, Noragric, NMBU, *A REDD Case in Tanzania: Slow Violence through Knowledge Claims, Concealed Practices and the Creation of a Success Story.*

Discussant(s): Ruth Trumble, University of Wisconsin - Madison

## **3168. Racial Capitalism: Mobilizing a Theoretical Framework for Thinking and Acting the world**

*Room:* St. Botolph, Marriott, Second Floor (Paper Session)

ORGANIZER(S): Marlene Nava Ramos, CUNY - Graduate Center; Carrie Freshour, Cornell University

CHAIR(S): Laurel Mei-Singh, Princeton University

**8:00** Denisse Andrade\*, The Graduate Center, CUNY, *Racial Capitalism as Theory and Method.*

**8:20** Brian Williams\*, The University of Georgia, *"Good, Clean Cotton": Plantation ecologies and environmental racism..*

**8:40** Marlene Nava Ramos\*, CUNY - Graduate Center, *From Policing to Detention: The Making of the Country's*

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**9:00** Carrie Freshour\*, Cornell University, *Racial Capitalism and the Deepening Crisis of Social Reproduction.*

Discussant(s): Laurel Mei-Singh, Princeton University

**3169. Transnational Cultural and Natural Heritage in Asia: Contours of Boundary-Transgressing Memoryscapes (I) (Sponsored by Recreation, Tourism, and Sport Specialty Group, China Specialty Group, Asian Geography Specialty Group)**

*Room:* Regis, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Rudi Hartmann, University of Colorado

CHAIR(S): Rudi Hartmann, University of Colorado

**8:00** LeiLei Li\*, Shenzhen university, *China's modern industrialization and industrial heritage preservation: a critical review from a transnational and dark heritage perspective.*

**8:20** Yong Tang\*, Chengdu University Of Technology, *Contested Narrative at Hanwang Earthquake Memorial Park: Travel Motivations, Sought Experiences and Perceived Values.*

**8:40** Shengrong Chen\*, *The globalization of commemoration: Changing Natural Disaster Memorial Landscapes in China.*

Discussant(s): Mary Mostafanezhad, University of Hawai'i at Manoa

**3170. Geographies of Nepal: Development, Politics, Ecologies across Himalayan landscapes (Sponsored by Cultural and Political Ecology Specialty Group, Socialist and Critical Geography Specialty Group, Development Geographies Specialty Group)**

*Room:* Northeastern, Marriott, Third Floor (Panel Session)

ORGANIZER(S): Galen Murton, University of Colorado Boulder

CHAIR(S): Galen Murton, University of Colorado Boulder

Introducer: Galen Murton

Discussant(s): Elsie Lewison, University of Toronto; Jessica DiCarlo, University of Colorado

Panelists: Dinesh Paudel, Appalachian State University; Katharine Rankin, University of Toronto; John J. Metz, Northern Kentucky University; Jeffrey Masse; Pradyumna P. Karan, University Of Kentucky; Rupak Shrestha, University of Colorado Boulder; Robert Edward Beazley, Cornell University

**3171. Critical Geographies of Nutrition Assistance (Sponsored by Cultural and Political Ecology Specialty Group, Geographies of Food and Agriculture Specialty Group)**

*Room:* Brandeis, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Angela Babb, Indiana University

CHAIR(S): Angela Babb, Indiana University

**8:00** Joshua Lohnes\*, West Virginia University, *Mapping access within West Virginia's humanitarian food network: Regulations, metrics and power in surplus food gifts.*

**8:20** Shun-Nan Chiang\*, University of California - Santa Cruz, *Measurements of Malnutrition: The Transformation of Nutritional Policy Making in the Philippines.*

**8:40** Andrea Woodward, Ph.D.\*, Berea College, *Summer Food Service Programs: A critical inquiry into structure, function, and future directions.*

**9:00** Angela Babb\*, Indiana University, *Making Neoliberal Consumer Subjects - A Political Ecology of the Thrifty Food Plan.*

**9:20** Angela M Babb, Indiana University; Daniel C Knudsen, Indiana University, *An Examination of Alternative Diets Within the Framework of the Thrifty Food Plan.*

**3172. Quiet Social Movements & Everyday Life in the urban global South: Towards New Geographies of Social Change I (Sponsored by Qualitative Research Specialty Group)**

*Room:* MIT, Marriott, Third Floor (Panel Session)

ORGANIZER(S): Susmita Rishi, University of Washington; Amy Piedalue, University of Washington

CHAIR(S): Farhana Sultana, Syracuse University

Discussant(s): Farhana Sultana, Syracuse University

Panelists: David Morgan Chambers, University of Wisconsin - Madison; Jennifer Tucker, University of New Mexico; Febe Phoebe Jorga Maria De Geest, University of Ghent; Manish Chalana, University of Washington; Nabil Kamel, Western Washington University

**3173. The Theory and Politics of David Harvey's 'Accumulation by Dispossession' -- I (Sponsored by Political Geography Specialty Group, Economic Geography Specialty Group)**

*Room:* Boston University, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Raju J. Das, York University

CHAIR(S): Raju J. Das, York University

**8:00** Christian Zeller\*, University of Salzburg, Dep. of Geography and Geology, *Shifting crises and searching new fields for accumulation in the global rentier regime.*

**8:20** Ritika Shrimali, Dr.\*, York University, *Accumulation by dispossession or accumulation without dispossession: The case of contract farming in India.*

**8:40** Patrick Bond\*, University of the Witwatersrand, *Southern African Accumulation by Dispossession within Uneven Capitalist Development.*

**9:00** Raju J. Das\*, York University, *The Theory and Politics of David Harvey's 'Accumulation by Dispossession': A Marxist Critique.*

Discussant(s): Rupinder Minhas

**3174. Geospatial Health Research Symposium: Neighborhood Built Environment, Obesity, BMI, food access I (Sponsored by Urban Geography Specialty Group, Health and Medical Geography Specialty Group)**

*Room:* Simmons, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Eric M. Delmelle, University of North Carolina at Charlotte; Mei-Po Kwan, University of Illinois at Urbana-Champaign; Michael J. Widener, University of Toronto

CHAIR(S): Victoria Torres, Universidad De Santiago De Chile

**8:00** He Jin\*, Texas State University - San Marcos, *The Effects of Concentration of Fast Food Chains and Urbanization on Obesity among Texas Public School Children.*

**8:20** Yashas Vaidya\*, Brown University; Dirgha J Ghimire, Research Associate Professor, Population Studies Center, University of Michigan; Prem Bhandari, PhD, Population Studies Center, *Examining Nutrition Transition at the Local Level.*

**8:40** Kenisha Adina Johnson\*, University of Central Florida; Yingru Li, University of Central Florida, *Assessing Food Environments around Public Elementary Schools in the U.S..*

**9:00** Victoria Torres González\*, Universidad de Santiago de Chile, *Understanding Food Equity From a Geographic Perspective.*

Discussant(s): Yanqing Xu, University of Toledo

**3175. Symposium on Human Dynamics in Smart and Connected Communities: Geocomputation for urban environmental health issues (Sponsored by Geographic Information Science and Systems Specialty Group, Urban Geography Specialty Group, Transportation Geography Specialty Group)**

*Room:* Suffolk, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Xiaojiang Li, University of Connecticut; Carlo Ratti, MIT

CHAIR(S): Xiaojiang Li, University of Connecticut

**8:00** Xiaojiang Li\*, University of Connecticut; Carlo Ratti, MIT Senseable City lab, MA, USA, *Quantifying shade provision of street greenery using Google Street View panoramas.*

**8:15** Ross English Bottomley\*, Michigan State University; Amber L Pearson, Michigan State University; Tim Chambers, University of Otago; Moira Smith; Michelle

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Barr; Louise Signal, *Comparing children's estimated and actual visual exposures to 'blue' spaces: Evidence from an island nation.*

**8:30** Colleen E Reid, PhD MPH\*, University of Colorado, Boulder; Laura D Kubzansky, PhD MPH, Harvard School of Public Health; Jessie LC Shmool, PhD, Minnesota Department of Public Health; Jiayue Li, MS; Jane E Clougherty, PhD, University of Pittsburgh, *It's Not Easy Assessing Greenness: A Comparison of the Effects of Spatial Resolution of NDVI and Buffer Sizes on Self-Reported Health.*

**8:45** Ling Yin\*, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences; Liang Mao, The University of Florida; Shujiang Mei, Shenzhen Center for Disease Control and Prevention; Xiaoqing Song, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences; Shih-Lung Shaw, The University of Tennessee at Knoxville; Nan Lin, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, *Simulating intra-urban intervention strategies for Dengue fever with large-scale mobile phone location data.*

**9:00** Priyanka deSouza, MIT Senseable City Lab; Carlo Ratti\*, MIT; Fabio Duarte, MIT Senseable City Lab, *The integration of satellite-derived aerosol optical thickness and ground based PM measurements from low cost monitors in Nairobi.*

**9:15** Bin Jiang\*, University of Hong Kong; Dorothy S. Tang, University of Hong Kong, *Public Health and the illegal E-waste industry in China? alternative visions from urban planning and landscape design.*

**3176. Symposium on Human Dynamics in Smart and Connected Communities: Spatial-Social Networks in GIS 1 (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group, Spatial Analysis and Modeling Specialty Group)**

*Room:* Wellesley, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Xinyue Ye, Kent State University; Xingjian Liu, University of Hong Kong; Clio Andris

CHAIR(S): Xinyue Ye, Kent State University

Introducer: Michael F. Goodchild

**8:20** Joris Beckers, University of Antwerp; Maarten Vanhoof, Dept. SENSE, Orange Labs; University of Newcastle; Ann Verhetsel, University of Antwerp, *Spatial network analysis to identify social and geographical proximities in socio-economic datasets.*

**8:40** Natalia Vorotyntseva, PhD\*, University of Connecticut; Debarchana Ghosh, PhD, University of Connecticut, *Bringing Ego Networks into Geospatial Environment.*

**9:00** Zheyue Wang\*, Kent State University; Xinyue Ye, Kent State University; Xiaomeng Chang, Shenzhen University, *Geography and Cyberspace: Understanding Online Human Interactions from Social Media Data.*

**9:20** Jessica A. Cook, PhD\*, National University Of Singapore; Deborah S. Main, PhD, University of Colorado Denver; Mallika Bose, PhD, The Pennsylvania State University, *A social and spatial network approach to understanding beliefs and behaviors of farmers facing land development in Delhi, India.*

**3177. Author meets the critics: The Geopolitics of Real Estate: Reconfiguring Property, Capital and Rights (Sponsored by Political Geography Specialty Group)**

*Room:* Harvard, Marriott, Third Floor (Panel Session)

ORGANIZER(S): Jason Dittmer, University College London

CHAIR(S): Jason Dittmer, University College London

Panelists: Desiree Fields, University of Sheffield; Alan Wiig, University of Massachusetts, Boston; Manuel B. Aalbers, KULeuven; Nicole Cook, The University of Melbourne; Dallas Rogers, Western Sydney University

**3179. Patterns, Processes, and People: Measurement Methods for Landscape Ecology and Land Architecture II (Sponsored by Geographic Information Science and Systems Specialty Group)**

*Room:* Arlington, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Amy E. Frazier, Oklahoma State University; Peter Kedron, Oklahoma State University

CHAIR(S): Peter Kedron, Oklahoma State University

**8:00** Amy E. Frazier\*, Oklahoma State University; Peter Kedron, Oklahoma State University, *Patterns of forest fragmentation in the wildland urban interface: a comparison of patch-based and gradient surface methods.*

**8:20** Caitlin E. Mertzluft, MPH\*, University of Georgia; Nicole Gottdenker, DVM, MS, PhD, Displ. ACVP, University of Georgia; Marguerite Madden, PhD, University of Georgia; Julie Velasquez Runk, PhD, University of Georgia; Xiaobai Yao, PhD, University of Georgia; Jose Calzada, PhD, Instituto Conmemorativo Gorgas de Estudios de la Salud; Azael Saldana, PhD, Instituto Conmemorativo Gorgas de Estudios de la Salud, *Assessing the interaction of social and ecological drivers on distribution of palm species *Attalea butyracea* related to Chagas disease transmission in central Panama.*

**8:40** Di Yang\*, University of Florida; Matthew Marsik, University of Florida; Chiung-Shiuan Fu, University of Florida; Mehmet Ozdes, University of Florida; Audrey Smith, University of Florida; Michael Binford, University of Florida, *Design and Implantation of a Self-Supervised Cloud Computing Framework Linking Forest Management to Surrounding Lands.*

**9:00** Youngsang Kwon\*, University of Memphis; Lian Feng, University of Memphis, *Comparative assessment of stem count, basal area and tree growth rate for spatial patterns of migration capacity.*

**9:20** Lian Feng\*, The University of Memphis; Youngsang Kwon, The University of Memphis, *Florida's low tree species richness examined by species-level response curves on latitudinal gradient.*

**3180. The Geography of Entrepreneurship and its Ecosystems I (Sponsored by AAG Careers and Professional Development Theme, Economic Geography Specialty Group, Business Geography Specialty Group)**

*Room:* Berkeley, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Elizabeth Mack, Michigan State University; Murray Rice, University of North Texas; Heike Mayer, University of Bern, SwitzerlandGeographisches Institut

CHAIR(S): Heike Mayer, University of Bern, SwitzerlandGeographisches Institut

**8:00** Ronald V Kalafsky\*, University of Tennessee, *High-Growth Firms and Development within the Southern Context.*

**8:20** Keith Debbage\*, UNC-Greensboro, *Geographies of Entrepreneurial Ecosystems: Non-Farm Proprietorship Employment by US Metropolitan Area.*

**8:40** Murray Rice\*, University of North Texas; Ron Kalafsky, University of Tennessee; Ross Brown, University of St Andrews, *High-Growth Firm Acquisition: Who is Buying the Inc. 500?.*

**9:00** Shiri M. Breznitz\*, University of Toronto; Martin Kenney, University of California, Davis; Douglas S Noonan, Indiana University-Purdue University Indianapolis (IUPUI), *Does Crowd Funding Reduce Regional Advantages?.*

**3181. Rethinking Urban Governance in the Everyday: Pluralizing the Modes, Regimes and Multiplicities of Environmental and Infrastructural Governance (Sponsored by Cultural and Political Ecology Specialty Group)**

*Room:* Clarendon, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Natasha L. Cornea, University College



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London; Yaffa Truelove, Yale-NUS College  
 CHAIR(S): Natasha L. Cornea, University College London  
**8:00** Nathaniel Gabriel\*, Mississippi State University, *Green Space and Urban Environmental Governance in the American South*.

**8:20** Antoine Paccoud, Dr, LISER, Luxembourg; Florence Metz, Dr, University of Bern, *Affect in the midst of the technical: the more-than-rational in the regulation of micro-pollutants in the river Rhine*.

**8:40** Shilpa Dahake, Doctoral Candidate\*, Indian Institute of Science Education and Research Mohali, *Holy Riverscape: Interplay of Everyday Negotiations along Godavari River in Nashik*.

**9:00** Lindsay K. Campbell\*, USDA Forest Service, Northern Research Station; Victoria Marshall, Till Design; Renae Reynolds, NYC Urban Field Station; Erika S. Svendsen, USDA Forest Service, Northern Research Station, *Material and social relations in a coastal community garden assemblage*.

**3182. Urban Theory and Life in the BRICS- Brazil, India, China and South Africa (Sponsored by Regional Development and Planning Specialty Group, Urban Geography Specialty Group, Geography Education Specialty Group)**

*Room:* Dartmouth, Marriott, Third Floor (Panel Session)  
 ORGANIZER(S): Joel Outtes, UFRGS-Univ Fed Rio Gde Do Sul  
 CHAIR(S): Joel Outtes, UFRGS-Univ Fed Rio Gde Do Sul  
 Panelists: Philip John Harrison, University of the Witwatersrand, Johannesburg; PIN-CHU CHEN, University of Durham; Sanjeev Vidyarthi, University of Illinois At Chicago; Ryan Centner, London School of Economics

**3183. Shifting Hydroperiods - conflicts and opportunities arising from dynamics of inundation in wetlands and seasonally-inundated floodplains (Sponsored by Human Dimensions of Global Change Specialty Group, Spatial Analysis and Modeling Specialty Group, Water Resources Specialty Group)**

*Room:* Exeter, Marriott, Third Floor (Paper Session)  
 ORGANIZER(S): Narcisa Pricope, University of North Carolina Wilmington  
 CHAIR(S): Narcisa Pricope, University of North Carolina Wilmington  
**8:00** Narcisa G. Pricope, PhD\*, University of North Carolina Wilmington, *Telecoupling in socio-hydrological systems: theoretical advances and practical ways forward*.  
**8:20** Zachary Harmer\*, Brock University; Kevin W. Turner, Brock University; Michael F.J. Pisarc, Brock University, *Identifying spatial patterns of land use influences on water resources across the Niagara Peninsula, Canada*.  
**8:40** Kunwar K. Singh, PhD\*, North Carolina State University; Joshua Gray, PhD, North Carolina State University, *Variability of surface water with increasing crop intensity: A relationship for sustainability of food supplies and water resources*.  
**9:00** Anne Lausier\*, Department of Civil and Environmental Engineering, University of Maine; Shaleen Jain, Ph.D., Department of Civil and Environmental Engineering, University of Maine, *Appraising Integrated Water Resources Management Across the World: Moving Towards a Stewardship Framework*.  
**9:20** America Nallely Lutz Ley, PhD\*, Udall Center for Studies in Public Policy- The University of Arizona, *Farming, Mining, or Manufacturing Adaptation? Global Change and Adaptation of Agrarian and Diversified Livelihoods in a Rural Watershed of Northwest Mexico*.

**3184. Analytical Uses of Autobiography and Autoethnography (Sponsored by Geographic Perspectives on Women Specialty Group)**

*Room:* Fairfield, Marriott, Third Floor (Panel Session)

ORGANIZER(S): Pamela Moss, University of Victoria  
 CHAIR(S): Pamela Moss, University of Victoria  
 Panelists: Beyhan Farhadi, University of Toronto; Jessie Speer; Lindsay Stephens; Robyn Longhurst, University of Waikato; Sertanya Reddy; Pamela Moss, University of Victoria

**3185. Geographies of Degrowth, Part I: 'Ecologies' (Sponsored by Cultural and Political Ecology Specialty Group)**

*Room:* Salon H, Marriott, Fourth Floor (Paper Session)  
 ORGANIZER(S): Federico Demaria, Universitat Autònoma de Barcelona; Giorgos Kallis, Universitat Autònoma de Barcelona; Karen Bakker, University of British Columbia  
 CHAIR(S): Karen Bakker, University of British Columbia  
 Introducer: Karen Bakker  
**8:20** Claire S Bayler\*, Clark University, *Degrowth Lessons from Cuba & Agroecology*.  
**8:40** Ross William Jones\*, University of Manchester, *Climate-Compatible Global Production Networks and the Case for Degrowth*.  
**9:00** Mary Gearey, PhD\*, University of Brighton; Neil Ravenscroft, PhD, University of Brighton, *The Nowtopia of the riverbank: place, age and the collective imagination*.  
**9:20** Siri M. Kjellberg\*, Lund University, *Transition through commoning localization: Swedish Nowtopian cooperative communities maximizing values beyond growth*.

**3186. 3D Virtual and Augmented Realities for Geoinformation Science I (Sponsored by Geographic Information Science and Systems Specialty Group, Cartography Specialty Group)**

*Room:* Salon I, Marriott, Fourth Floor (Paper Session)  
 ORGANIZER(S): Alexander Klippel, Pennsylvania State University; Sven Fuhrmann, George Mason University; Robert N. Stewart, Oak Ridge National Laboratory  
 CHAIR(S): Alexander Klippel, Pennsylvania State University  
**8:00** Joseph G. Ferdinando\*, Pennsylvania State University, *Virtual Reality for Interplanetary Spatial Exploration*.  
**8:20** Guoqiang Peng\*, Key Laboratory of Virtual Geographic Environment (Ministry of Education), Nanjing Normal University, Nanjing, Jiangsu Province, 210046, China;; Yongning Wen, Key Laboratory of Virtual Geographic Environment (Ministry of Education), Nanjing Normal University, Nanjing, Jiangsu Province, 210046, China;; Min Chen, Key Laboratory of Virtual Geographic Environment (Ministry of Education), Nanjing Normal University, Nanjing, Jiangsu Province, 210046, China;; Songshan Yue, Key Laboratory of Virtual Geographic Environment (Ministry of Education), Nanjing Normal University, Nanjing, Jiangsu Province, 210046, China;; Guonian Lu, Key Laboratory of Virtual Geographic Environment (Ministry of Education), Nanjing Normal University, Nanjing, Jiangsu Province, 210046, China., *A Visualization Engine for Integrated Geo-modelling Platform*.  
**8:40** Mengchao Xu\*, George Mason University; David W. Wong, George Mason University, *A Comparison of Shortest Path Generating Methods for Multi-story Structures*.  
**9:00** Alexander Klippel\*, Pennsylvania State University; Mark Simpson, The Pennsylvania State University; Danielle Oprean, The Pennsylvania State University; Jan Oliver Wallgrun, The Pennsylvania State University; Jiawei Huang, The Pennsylvania State University; Jiayan Zhao, The Pennsylvania State University, *I/R Communication Paradigms*.  
**9:20** Martin Swobodzinski\*, Portland State University, *Affect, Immersion, Geography, and Virtual Reality*.

**3187. Analytics for the Anthropocene: Socioecological futures and scale I (paper session) (Sponsored by Cultural and Political**



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## Ecology Specialty Group, Human Dimensions of Global Change Specialty Group)

- Room:** *Salon J, Marriott, Fourth Floor* (Paper Session)  
 ORGANIZER(S): Elizabeth S. Barron, University of Wisconsin - Oshkosh; Deborah Scott, University of Edinburgh  
 CHAIR(S): Patrick T. Hurley, Ursinus College  
**8:00** Deborah Scott\*, University of Edinburgh, *Ecosystem Restoration as a Global Solution: Politics of Scale / Politics of Assemblage at the UN CBD*.  
**8:20** Stella Capoccia, Ph.D.\*, Montana Tech University; Michael Masters, Ph.D., Montana Tech University, *Poultry politics and scale: Social, health, and ecological consideration of the urban chicken*.  
**8:40** David C. Eisenhauer\*, Rutgers, *Placing Knowledge in the Anthropocene: Imagining and enacting climate response along the Jersey Shore*.  
**9:00** Elizabeth S. Barron, Ph.D.\*, University of Wisconsin - Oshkosh; Frederik Hagemann, University of Lund; Laura M. Hartman, Ph.D., University of Wisconsin Oshkosh, *From Place to Emplacement: The Scalar Politics of Sustainability*.  
 Introducer: Christine Biermann  
 Discussant(s): Colleen C. Hiner, Texas State University

- 3188. Material Culture and Geography (Sponsored by Landscape Specialty Group, Cultural Geography Specialty Group)**  
**Room:** *Salon K, Marriott, Fourth Floor* (Paper Session)  
 ORGANIZER(S): Ellen Hostetter, University of Central Arkansas  
 CHAIR(S): Ellen Hostetter, University of Central Arkansas  
**8:00** Hannah C. Gunderman\*, University of Tennessee, *Geographies of Collecting and Fandom: An Analysis of Doctor Who-Themed Merchandise*.  
**8:20** Peter J. McCormick\*, Fort Lewis College, *the view from here: autogeography, rephotography, and landscape change*.  
**8:40** Suzanne Dickens\*, Front Range Community College, *Vernacular voices: the creation and transformation of sacred and political spaces*.  
**9:00** Mark Joseph Sciuchetti\*, Florida State University, *Shaping American Identity and Place through Music: The Case of Emma Lou Diemer*.  
**9:20** Alexander James Harby, PhD student\*, University of Nottingham, *Little Wars: The Geopolitics of British Board Games, 1900-1975*.

- 3189. All Things Nuclear in a Post-Fukushima Context: Geographical Perspectives - 1 (Sponsored by Hazards, Risks, and Disasters Specialty Group, Health and Medical Geography Specialty Group, Energy and Environment Specialty Group)**  
**Room:** *Vineyard, Marriott, Fourth Floor* (Paper Session)  
 ORGANIZER(S): Misa Yasumiishi, University at Buffalo; Marissa Z. Bell, University At Buffalo; Daisaku Yamamoto, Colgate University  
 CHAIR(S): Daisaku Yamamoto, Colgate University  
**8:00** Chris S. Renschler\*, University at Buffalo (SUNY), *Using Fallout Radionuclides and Models to Enhance Stakeholders' Capacities to Assess Management Strategies for Both: Soil & Water Conservation and Contaminated Soils*.  
**8:15** Xi Gong\*, University of New Mexico; F. Benjamin Zhan, Texas State University; Yan Lin, University of New Mexico, *Is Ionizing Radiation Near In the Vicinity of Nuclear Facilities Related to Low Birth Weight in Offspring*.  
**8:30** Carolynne Hultquist\*, Pennsylvania State University, *Radiation from Fukushima: Policy, Information, and Technology*.  
**8:45** Misa Yasumiishi\*, University at Buffalo, *Decoding Environmental Processes Using Soil Radioactivity Data for Environmental Decontamination and Recovery*.

- 9:00** Hiroyuki KANEKO\*, Rikkyo University, *Why People Continue to Consume Local Food?: Radioactive contamination and the use of resources..*  
 Discussant(s): Chris S. Renschler, University at Buffalo (SUNY)

## 3190. Urban Economies and the Ordinary Life A: Economy of Cities I

- Room:** *Yarmouth, Marriott, Fourth Floor* (Paper Session)  
 ORGANIZER(S): John Miron, University of Toronto  
 CHAIR(S): Richard G. Funderburg, University of Illinois Springfield  
**8:00** Hanbyul Shim\*, Seoul National University, *What cultural economy has brought to urban core: The case of Seoul*.  
**8:20** Xiang Yan\*, University of Michigan, *Rethinking Agglomeration Economies, Accessibility, and Productivity: the Importance of Urban Form*.  
**8:40** David Merriman, Ph.D., University of Illinois, Chicago; Joshua Drucker, Ph.D., University of Illinois, Chicago; Richard Funderburg, Ph.D.\*, University of Illinois Springfield; Rachel Weber, Ph.D., University of Illinois, Chicago, *Do local governments use business tax incentives to offset high property taxes?*.

## 3191. Is another smart city possible? Technologies of data governance in a digital age (1/3)

- Room:** *Nantucket, Marriott, Fourth Floor* (Paper Session)  
 ORGANIZER(S): Ayona Datta, King's College London; Rob Kitchin, National University Of Ireland Maynooth; Duncan McLaren, Lancaster Environment Centre  
 CHAIR(S): Julian Agyeman, Tufts University  
**8:00** Rob Kitchin\*, National University of Ireland Maynooth, *Smart cities, data silos and enclosures, data commons and sharing, and data governance*.  
**8:20** Ramon Ribera-Fumaz\*, Internet Interdisciplinary Institute, UOC; Hug April\*, IN3, Universitat Oberta de Catalunya, *Against, for and beyond the Smart City: Towards Technological Sovereignty in Barcelona*.  
**8:40** Ryan Burns\*, University of Calgary, *Data Absences and Strategies: Community Tactics for Self-representation*.  
**9:00** Casey R. Lynch\*, University of Arizona - Geography & Regional Development, *Technological Sovereignty and Contested Urban Futures in Barcelona*.  
**9:20** Annette Koh\*, University of Hawaii at Manoa, *Urban & Regional Planning, Technologies of visibilization: collective action in the smart city*.

## 3192. PREM: Racialized State Power and the Problem of Reform (Sponsored by Urban Geography Specialty Group, Ethics, Justice, and Human Rights Specialty Group, Socialist and Critical Geography Specialty Group)

- Room:** *Provincetown, Marriott, Fourth Floor* (Paper Session)  
 ORGANIZER(S): Ted Rutland, Concordia University; Judah Schept, Eastern Kentucky University - Richmond, KY  
 CHAIR(S): Ted Rutland, Concordia University  
**8:00** Stuart Schrader\*, Harvard University, *The Purposes of Police Reform: A Case Study in Menlo Park, California*.  
**8:20** Judah Schept, PhD\*, Eastern Kentucky University - Richmond, KY, *Against punishment: The centrality of "community" to the carceral state*.  
**8:40** Ujju Aggarwal\*, CUNY Graduate Center, *Choice and the Consistency of Freedom Unfound: The Politics of Care in Forgotten Places of the Racial State*.  
**9:00** Jack Norton\*, Graduate Center, CUNY, *Shifting Landscapes of Reform: Scale and the Study of the Carceral State*.  
 Discussant(s): Jennifer Ridgley, Carleton University

## 3193. Geographies of extinction: space, biopolitics and temporality 1 (Sponsored by Political Geography Specialty Group, Animal Geography Specialty Group)

- Room:** *Orleans, Marriott, Fourth Floor* (Paper Session)  
 ORGANIZER(S): Ian Klinke; Maan Barua, University of Oxford

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CHAIR(S): Maan Barua, University of Oxford

**8:00** Matthew G. Hannah\*, Universität Bayreuth, *Before and after awareness: recent anthropological and cosmological discussions of time.*

**8:20** Ian Klinke\*, *Extinction and death as leitmotifs in the work of Friedrich Ratzel.*

**8:40** Simon Dalby\*, Balsillie School of International Affairs, *Combustible Geopolitics: Fire, Change and Extinction in the Anthropocene.*

**9:00** Bettina Stoetzer\*, MIT, *"Ruderal City: Urban Ecologies in a World of Rubble".*

Discussant(s): Gerard Toal, Virginia Tech

## 3194. Geographies of Migrant and Ethnic Minority Political Participation and Mobilisation - Session 1 (Sponsored by Political Geography Specialty Group, Ethnic Geography Specialty Group)

Room: Hyannis, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Robin Finlay, Newcastle University

CHAIR(S): Robin Finlay, Newcastle University

Introducer: Robin Finlay

**8:20** Robin Finlay\*, Newcastle University, *Muslim Youths and Political Participation in Scotland.*

**8:40** Saskia Warren, Dr\*, University of Manchester, *Placing faith in creative labour: work-based activism of Muslim women in the UK cultural and creative economy.*

**9:00** Kate Botterill, Edinburgh Napier University, *'Bargaining chips' or 'Stakeholder citizens': Polish migrant political agency in two UK Referendums.*

**9:20** Jennifer McCurry\*, Queen Mary University of London, *'Ordinary citizens' or political actors? Diaspora associations as a form of political engagement for Polish migrants in Northern Ireland.*

## 3195. High spatial resolution remote sensing: data, techniques, and applications (Sponsored by Remote Sensing Specialty Group)

Room: Falmouth, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Yuhong He, University of Toronto

Mississauga; Qihao Weng, Indiana State University

CHAIR(S): Yuhong He, University of Toronto Mississauga

**8:00** Michael P. Bishop, Ph.D.\*, Department of Geography, Texas A&M University; Muthu Bagavathiannan, Ph.D., Department of Soil and Crop Sciences, Texas A&M University; Anthony M. Filippi, Ph.D., Department of Geography, Texas A&M University; Seth Murry, Ph.D., Department of Soil and Crop Sciences, Texas A&M University; Jeffrey Olsenholler, Department of Geography, Texas A&M University; Sorin Popescu, Ph.D., Department of Ecosystem Science and Management, Texas A&M University; Nithya Rajan, Ph.D., Department of Soil and Crop Sciences, Texas A&M University; Alex Thomasson, Ph.D., Department of Biological and Agricultural Engineering, Texas A&M University; John Valasek, Ph.D., Department of Aerospace Engineering, Texas A&M University, *Unmanned Aircraft Systems (UAS) and High-Resolution Geospatial Data: Processing, Information Extraction, and Decision Support Issues in Agricultural Research.*

**8:20** Kin M. Ma, Ph.D.\*, Grand Valley State University; Mark E Whalon, Ph.D., Michigan State University, *Analyses of 2011 Northern Michigan IKONOS images through the use of Object-oriented classification and advanced geospatial techniques.*

**8:40** Amirhossein Tayyebi, Department of Civil and Environmental Engineering, University of Houston; Ken Wacha, USDA National Laboratory for Agriculture and Environment, Iowa; Marc Linderman, Department of Geographical and Sustainability Science, University of Iowa; Thanos Papanicolau, Hydraulics and Sedimentation Lab, Department of Civil & Environmental Engineering, University of

Tennessee; Kangsan Lee\*, Department of Geographical and Sustainability Science, University of Iowa, *Using Hyperspectral Data to model topsoil properties within an Intensely Managed Watershed.*

**9:00** Yuhong He\*, University of Toronto Mississauga; Jian Yang, Department of Geography, University of Toronto, *Spectral mixing space selection for linear spectral unmixing.*

**9:20** Bingqing Liang\*, University of Northern Iowa, *Measuring UAS Imagery Characteristics by Geospatial Algorithms.*

## 3196. Coastal and Marine Norbert Psuty Merit Award Competition (Sponsored by Coastal and Marine Specialty Group)

Room: Maine, Marriott, Fifth Floor (Paper Session)

ORGANIZER(S): Heidi Lannon, Santa Fe College

CHAIR(S): Heidi Lannon, Santa Fe College

**8:00** Joshua T Kelly\*, University of Massachusetts - Boston; Allen Gontz, San Diego State University, *Comparing the ability of Landsat water indices to accurately map the shoreline boundary and an applied case study for Sergipe, Brazil.*

**8:20** Courtney Thompson\*, University of Idaho; Raymond J Dezzani, University of Idaho, *Examining the Influence of Hurricane Risk Perception and Structuration on Coastal Hazards Vulnerability.*

**8:40** Mayra A. Roman Rivera\*, University of South Carolina; Jean Taylor Ellis, PhD, University of South Carolina, *Beach-Dune Recovery Along the South Carolina Coast Post Hurricane Matthew.*

**9:00** Patrick Barrineau\*, Texas A&M; Chris Houser, PhD, University of Windsor, *Desertification and dune activity in South Texas.*

**9:20** Li-Chih Hsu\*, University of Kentucky, *Multiple scales of dune topographic state space for southeastern U.S. Atlantic barrier islands.*

## 3197. Author Meets Critics: Jennifer Fluri's Carpetbaggers of Kabul and other American-Afghan Entanglements (Sponsored by Qualitative Research Specialty Group, Geographic Perspectives on Women Specialty Group)

Room: Massachusetts, Marriott, Fifth Floor (Panel Session)

ORGANIZER(S): Amy Trauger, University of Georgia

CHAIR(S): Amy Trauger, University of Georgia

Discussant(s): Jennifer Fluri, University of Colorado, Boulder

Panelists: Caroline Faria, University of Texas - Austin; Sara Koopman, University of Tampere; Jennifer Hyndman, York University; Azita Ranjbar, Pennsylvania State University

## 3198. Political ecologies of the infrastructure-mining complex: global comparisons (1) (Sponsored by Cultural and Political Ecology Specialty Group)

Room: New Hampshire, Marriott, Fifth Floor (Paper Session)

ORGANIZER(S): Simon P J Batterbury, Lancaster University; Anthony J. Bebbington, Clark University; Matthias Kowasch

CHAIR(S): Simon P J Batterbury, Lancaster University

Introducer: Matthias Kowasch

**8:05** Anthony J. Bebbington\*, Clark University; Denise Humphreys Bebbington, Clark University; John Rogan, Clark University; Laura Sauls, Clark University, *Assessing The Implications Of Mining And Large-Scale Infrastructure For Forest Loss.*

**8:25** Ruth Elizabeth Goldstein\*, Harvard University, *Blue Gold: Liquid Landscapes of Hydropower in the Peruvian Amazon.*

**8:45** Emily Colon\*, University of Maryland - College Park, *The Belo Monte Hydroelectric Complex: An Upstream Battle for the Xingu and Its People.*

**9:05** Michael B. Dwyer, PhD\*, University of Berne, CDE, *The Infrastructure-Resource Nexus: Regulation and State Formation in Contemporary Laos.*

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## 3199. Highlands to Oceans - Hydrological Processes and Watershed Management (Sponsored by Remote Sensing Specialty Group, Water Resources Specialty Group)

Room: Vermont, Marriott, Fifth Floor (Paper Session)

ORGANIZER(S): Prajwal Panday, Nichols College; Soni M.

Pradhanang, University of Rhode Island

CHAIR(S): Prajwal Panday, Nichols College

**8:00** Lisa Emili, Dr.\*, Penn State Altoona, *Small stream nutrient dynamics: downstream implications for the Chesapeake Bay.*

**8:15** Caroline Rae Narron, PhD student\*, Department of Geography & Earth Sciences, University of North Carolina at Charlotte; Gang Chen, Assistant Professor, Department of Geography & Earth Sciences, University of North Carolina at Charlotte, *Analyzing the Impact of Hydropower Scale on Tropical Forests in the Brazilian Amazon.*

**8:30** Ryan Filbin\*, Western Michigan University, *Modeling Channel Response to Dam Removal in Lansing, Michigan, using SWAT.*

**8:45** Mu Xiao\*, University of California; Shengan Zhan, University of California, Los Angeles; Brianna Pagan, University of California, Los Angeles; Zelalem Mekonnen, University of California, Los Angeles; Akash Koppa, University of California, Los Angeles; Abral Erkin, University of Houston, Houston; Hyongki Lee, University of Houston, Houston; Dennis P. Lettenmaier, University of California, Los Angeles, *Estimating Groundwater Losses during the Recent California Drought: A Water Balance Approach.*

**9:00** Soni M. Pradhanang, Ph.D.\*, University of Rhode Island; Mohammad Alfi Hasan, University of Rhode Island, *Flow regime analysis to understand impact of climate change on upstream and downstream hydrology of Western Nepal..*

**9:15** Carlos Ramos-Scharron\*, University of Texas - Austin; Yasiel Figueroa, Departamento de Ciencias Ambientales, Universidad de Puerto Rico-Rio Piedras, *From Coffee Farms to Coral Reefs: Soil and Water Management Research in the Western Highlands of Puerto Rico.*



# FRIDAY, April 7 • 10:00 AM - 11:40 AM • 3200

Poster Sessions for Friday are located on pages 242-251.

## 3201. Mapping Flexibly 1: Design + Critical Cartography (Sponsored by Cartography Specialty Group)

**Room:** Room 101, Hynes, Plaza Level (Paper Session)  
**ORGANIZER(S):** Eric M. Huntley, University of Kentucky  
**CHAIR(S):** Eric M. Huntley, University of Kentucky  
**10:00** Robert Gerard Pietrusko\*, Harvard University - CAMBRIDGE, MA, *The Visual Logic of False Color Aerial Imagery*.  
**10:20** Zulaikha Ayub\*, Princeton University, *LOST ALMOST: Creating an Alternative Archive of the Manhattan Project*.  
**10:40** Catherine D'Ignazio\*, Emerson College, *Feminist Data Visualization: Unmaking Maps and Making Things Talk*.  
**Introducer:** Matthew W. Wilson  
**11:05** Sarah Elizabeth Williams\*, MIT, *Vacant China - Voids Within the Growth Machine: Using Social Media to Detect Residential Vacancy in China*.  
**Discussant(s):** Shannon Christine Mattern, New School University

## 3202. Food Justice in the Changing City 2 (Sponsored by Geographies of Food and Agriculture Specialty Group)

**Room:** Room 102, Hynes, Plaza Level (Paper Session)  
**ORGANIZER(S):** Yuki Kato, Georgetown University; Sofya Aptekar, University of Massachusetts - Boston; Alison Alkon, University of California, Davis  
**CHAIR(S):** Justin Sean Myers, Marist College  
**10:00** Alison Hope Alkon\*, University of the Pacific; Alison Hope Alkon, University of the Pacific, *Subverting the new narrative: Food justice and gentrification in Oakland, CA*.  
**10:20** Yuki Kato\*, Georgetown University, *Urban Cultivation as Activism, Leisure or Entrepreneurship: Changing Grower Mission and Praxis over the Decade in Post-Katrina New Orleans*.  
**10:40** Jane T. Waddell, Ph.D.\*, Portland State University, *The Village Market: Reconciling Diverse Food Justices in Portland, OR*.  
**11:00** Nate Ela\*, University of Wisconsin-Madison, *Experimental Fields: Inventing the Urban Agriculture District*.  
**11:20** Carole Biewener, Ph.D Economics\*, Simmons College, *Alternative Food Businesses and Community Food Systems: A Tale of Two Neighborhoods*.

## 3203. Conversations on Practices of Decolonization And Racial Justice in Geography

**Room:** Room 103, Hynes, Plaza Level (Panel Session)  
**ORGANIZER(S):** Amber Murrey, Clark University; Pavithra Vasudevan, University of North Carolina, Chapel Hill  
**CHAIR(S):** Patricia Daley  
**Panelists:** Adam Elliott-Cooper, Warwick University; Alex Andre Moulton, Clark University; Ashok Kumar; Christopher M. Neubert, University of North Carolina - Chapel Hill; Sara H. Smith, University of North Carolina; Janae Davis, Clark University; Leo L. Hwang, Greenfield Community College

## 3204. Fleming Lecture (Sponsored by Transportation Geography Specialty Group)

**Room:** Room 104, Hynes, Plaza Level (Paper Session)  
**ORGANIZER(S):** Elizabeth Delmelle, University of North Carolina at Charlotte; Michael Kuby, Arizona State University  
**CHAIR(S):** Elizabeth Delmelle, University of North Carolina at Charlotte  
**Introducer:** Elizabeth Delmelle  
**10:10** Michael Kuby\*, Arizona State University, *Sustainable Transportation for the 86%: Location Models and*

*Survey Research for Planning Alternative-Fuel Infrastructure*.

**Discussant(s):** Morton E. O'Kelly, Ohio State University

## 3205. Policymaking under a human rights framework (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme)

**Room:** Room 105, Hynes, Plaza Level (Paper Session)  
**ORGANIZER(S):** Mainstreaming Human Rights  
**CHAIR(S):** Pete Fussey  
**10:00** Toan Ngoc Dang\*, Western Sydney University, *The Human Rights based approach to Poverty Reduction in Vietnam*.  
**10:20** Jason M. Angel\*, University of Waterloo, *Managing Accessibility: a Case Study at the University of Waterloo*.  
**10:40** Natallia Sianko, PhD, Clemson University; Patricia Carbajales-Dale\*, Clemson University, *Assessing State Action on the Right to Benefit from Scientific Progress: A geographic approach*.  
**11:00** Pete Fussey\*, University of Essex, *Urban Policing, 'Big Data' and Human Rights*.

## 3206. Brexit, race and migration (Sponsored by Russian, Eurasian Specialty Group, Socialist and Critical Geography Specialty Group, Ethnic Geography Specialty Group)

**Room:** Room 107, Hynes, Plaza Level (Panel Session)  
**ORGANIZER(S):** Peter Hopkins, Newcastle University; Kathy Burrell, University of Liverpool  
**CHAIR(S):** Peter Hopkins, Newcastle University  
**Introducer:** Kathy Burrell  
**Panelists:** Ben Rogaly, University of Sussex; Arshad Isakjee, University of Birmingham; Caroline Nagel, University of South Carolina; Katherine Botterill, Edinburgh Napier University

## 3207. Hydroscaapes II (Sponsored by Energy and Environment Specialty Group)

**Room:** Room 108, Hynes, Plaza Level (Paper Session)  
**ORGANIZER(S):** Michael Minn, Eastern Washington University  
**CHAIR(S):** Michael Minn, Eastern Washington University  
**10:00** Martina Angela Caretta\*, West Virginia University, *"You should have seen the green maize fields. It was wonderful". An analysis of the rhetoric behind the implementation of the New African Green Revolution through small scale irrigation*.  
**10:20** Hussein A. Amery\*, Colorado School of Mines, *Expatriate Grievances and Water Security in the Arab Gulf*.  
**10:40** Theresa Pendergrast\*, Cornell University, *Discord, Dispossession, and Dairy: Water Governance and Social Change in Canterbury, New Zealand*.  
**11:00** Katharine Bolton\*, University of Colorado Denver, *Water as a Transformative Lens for Post Mining Landscapes*.  
**11:20** Susanna Diller\*, University of New Mexico - Albuquerque, NM, *Human Experience and Social Valuation of Fountain Spaces in Denver and Albuquerque*.

## 3208. Brexit, Trump, and the rise of regional discontent: what is happening? (Sponsored by Late-Breaking News Special Session Track, Economic Geography Specialty Group)

**Room:** Room 109, Hynes, Plaza Level (Panel Session)  
**ORGANIZER(S):** Betsy Donald, Queen's University  
**CHAIR(S):** Betsy Donald, Queen's University  
**Introducer:** Betsy Donald  
**Panelists:** Michael Kitson; Mia Gray, University of Cambridge; Linda Lobao, Ohio State University; Gregory Hooks, McMaster University; Amy Glasmeier, Massachusetts Institute of Technology



# FRIDAY, April 7 • 10:00 AM - 11:40 AM • 3200

## 3209. Symposium on Human Dynamics in Smart and Connected Communities: Understanding Neighborhood Dynamics 2 - Trajectories and Longitudinal Analyses (Sponsored by Urban Geography Specialty Group, Spatial Analysis and Modeling Specialty Group)

Room: Room 110, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Joseph Danko, University of Connecticut; Elizabeth Delmelle, University of North Carolina at Charlotte; Kevin Kane, University of California, Irvine

CHAIR(S): Joseph Danko, University of Connecticut

10:00 Ate Poorthuis\*, Singapore University of Technology and Design; Taylor Shelton, University of Kentucky, *A comparative study of urban neighborhoods using geosocial media data.*

10:20 Nathan Foote\*, Rutgers University, *Transforming the American College Town: Neighborhood Change in the Knowledge Nodes, 1980-2010.*

10:40 Fabian Terbeck\*, University of Connecticut, *Diversity and Segregation: Trajectories of Racial/Ethnic Neighborhood Change between 1980 and 2010.*

11:00 Emily Talen\*, University of Chicago; Luc Anselin\*, University of Chicago, *Persistent Integration: An Exploration of Economically Diverse Neighborhoods in Chicago, 1940 to 2010.*

11:20 Magda Maaoui\*, Columbia University, *Obduracy in the Study of Neighborhood Change and Stability.*

## 3210. Importance of In Situ Climate Observations (Sponsored by Climate Specialty Group, Cryosphere Specialty Group)

Room: Room 111, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Michael A. Palecki, NOAA/ National Centers for Environmental Information - Asheville, NC

CHAIR(S): Michael A. Palecki, NOAA/ National Centers for Environmental Information - Asheville, NC

10:00 Michael A. Palecki\*, NOAA/ National Centers for Environmental Information - Asheville, NC, *A Reference Network for In Situ Climate Measurements: The USCRN.*

10:20 Daniel J. Leathers, Ph.D.\*, University Of Delaware, *Meso-scale Meteorological Networks in the United States: Monitoring, Models and Decision Support.*

10:40 Hengchun Ye\*, California State University - Los Angeles, *Understanding changing precipitation characteristics using historical surface observations.*

11:00 David A. Robinson\*, Rutgers University, *The Importance of In Situ Snow Cover Observations in Monitoring Climate Variability and Change.*

11:20 Thomas L. Mote\*, University of Georgia; Joshua Rosen, University of Georgia; Xavier Fettweis, University of Liege, *Changes in Arctic climate and associated Greenland ice sheet mass balance during the 20th and early 21st Centuries.*

## 3211. Contested Commodities I: Making Things Marketable (Sponsored by Cultural and Political Ecology Specialty Group, Geographic Perspectives on Women Specialty Group, Economic Geography Specialty Group)

Room: Room 200, Hynes, Second Level (Paper Session)

ORGANIZER(S): Emily Rosenman, University of British Columbia - Vancouver, BC; Caitlin Henry, University of Toronto; Dan Cohen, University of British Columbia

CHAIR(S): Rosemary-Claire Collard, Concordia University

10:00 Heather Whiteside\*, University of Waterloo, *Re-turned Commodities: Secondary Primitive Accumulation and/ in the Public Sector.*

10:20 Jayme Walenta\*, Texas A&M University, *An atmosphere of private property: understanding the context behind emission ownership and responsibility in carbon footprinting.*

10:40 Agatha Herman\*, Cardiff University, *Who and What is Fairtrade for? Critical Reflections on Producer Experiences.*

11:00 Christian Berndt\*, University of Zurich, *Making Diverse Markets.*

11:20 Dan Cohen\*, University of British Columbia, *Testing the Limits: Standardized Testing and the Contested Commodification of Schooling.*

## 3212. Social Constructs and Indigenous Resistance (Sponsored by Ethics, Justice, and Human Rights Specialty Group, Environmental Perception and Behavioral Geography Specialty Group, Indigenous Peoples Specialty Group)

Room: Room 201, Hynes, Second Level (Paper Session)

ORGANIZER(S): RDK Herman, National Museum of the American Indian

CHAIR(S): Randy A. Peppler, University of Oklahoma

10:00 Jeremy Tasch\*, Towson University, *Comparative Indigenous perspectives on a "Normalizing" Arctic.*

10:20 Bruno Seraphin, MA\*, University of Oregon, *Struggling Against Settler-Liberal Worlds: Whiteness, Nature, and the Rewilding Movement.*

10:40 Dick G. Winchell\*, Eastern Washington University, *Nation Building for the Fort McDowell Yavapai: Tribal Sovereignty and the Role of Planning..*

11:00 Zoë Kay Marshall\*, Mount Holyoke College, *Space and Sovereignty Examined Through the New York Skyline and Lakota Structures.*

11:20 Randy A. Peppler\*, University of Oklahoma, *The Social Construction of Civilization in Oklahoma: One Bank's Narrative of the Origin Story and the Concept of Progress.*

## 3213. Planetary Urbanization 6: Critical Appropriations

Room: Room 202, Hynes, Second Level (Panel Session)

ORGANIZER(S): Christian Schmid, ETH Zurich

CHAIR(S): Milica Topalovic, ETH Zurich Department of Architecture

Discussant(s): Jennifer Robinson, University College London; James D. Sidaway, National University of Singapore; AbdouMaliq Simone

Panelists: Christian Schmid, ETH Zurich

## 3214. Career Mentoring C (Sponsored by AAG Careers and Professional Development Theme)

Room: Room 203, Hynes, Second Level (Panel Session)

ORGANIZER(S): Mark Revell, American Association of Geographers

CHAIR(S): Mark Revell, American Association of Geographers

Discussant(s): Jung Eun Hong, University of West Georgia; Lisa Rainey Brownell, Ohio State Historic Preservation Office; Michaela Buenemann, New Mexico State University; Heather R. Houlton, American Geosciences Institute; Wei Li, Arizona State University; Carmen Brysch, Auburn University; Adrienne Katherine Tucker, Pennsylvania State University; Brian Bossak, College of Charleston

## 3215. Get the Knowledge You Don't Get in College: A Professional Skills Development Workshop for Entering and Excelling in Sustainable Infrastructure, Environmental and Growth Careers (Sponsored by AAG Careers and Professional Development Theme)

Room: Room 204, Hynes, Second Level (Panel Session)

This session is a continuation of the previous timeslot, 3115.

## 3216. Preparing Geographers for Business and Private Sector Careers (Sponsored by AAG Careers and Professional Development Theme)

Room: Room 205, Hynes, Second Level (Panel Session)

ORGANIZER(S): Mark Revell, American Association of Geographers

CHAIR(S): Michael N. Solem, American Association of Geographers

Discussant(s): Herman Kok, Multi / ODTU; Nick Kelch, Esri

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Panelists: John Sauvageau, Santander Bank, N.A.; Anthony Calamito, Boundless; Remi Alapo, Global Management Consulting

## 3217. Secondary Cities: Mapping Human Geography Data (Sponsored by AAG Mapathon)

**Room:** Room 206, Hynes, Second Level (Paper Session)  
 ORGANIZER(S): Melinda J. Laituri, Colorado State University  
 CHAIR(S): Melinda J. Laituri, Colorado State University  
 Discussant(s): Dmytro Saltovets, SpaeroGIS; Oleksandr Popov, Kharkiv City Council; Sergei Dovzhenko, Kharkiv City Council; Candice Luebbering, American Association of Geographers; Yelena Ogneva-Himmelberger

## 3219. Honorary Geographer James Hansen - Featured Session

**Room:** Room 210, Hynes, Second Level (Panel Session)  
 Organizer: American Association of Geographers  
 Moderator: **Glen M. MacDonald**, University of California - Los Angeles  
 Speaker: **James Hansen**, Columbia University  
 James Hansen, known for his climate research and his Congressional testimony on climate change that raised awareness of global warming, will deliver a featured talk on climate change, moderated by AAG President Glen MacDonald. He will also be honored as the 2017 AAG Honorary Geographer during the AAG Awards Luncheon.

## 3220. Human Geography Poster Session II

**Posters for this session can be found on pages 242-245.**

**Room:** Hall C, Hynes, Second Floor (Poster Session)  
 This session is a continuation of the previous timeslot, 3120.

## 3221. Special Sessions on: Geographic Data Science IV

**Room:** Room 301, Hynes, Third Level (Paper Session)  
 ORGANIZER(S): Alex Singleton; Mark Birkin, University of Leeds; Nick Malleson, University of Leeds  
 CHAIR(S): Nick Malleson, University of Leeds  
**10:00** Adam Dennett\*, University College London; Sam Page, University College London, *The Geography of London's Recent Beer Brewing Revolution*.  
**10:20** Robert Manduca\*, Harvard University, *The Spatial Structure of US Employment*.  
**10:40** Marynia Aniela Kolak, MS, MFA\*, Arizona State University, *An Open Spatial Data Science Systems Framework for Place-Based Decision-Making*.  
**11:00** Adam Jensen\*, Northumbria University, *Local Authority Data Visualization: A Post Representational Approach*.  
 Discussant(s): Mark Birkin, University of Leeds

## 3223. Distinguished Lecture on Geomorphology & Society (Sponsored by Geomorphology Specialty Group)

**Room:** Room 303, Hynes, Third Level (Paper Session)  
 ORGANIZER(S): Michael A. Urban, University of Missouri  
 CHAIR(S): Michael A. Urban, University of Missouri  
 Introducer: Michael A. Urban

## 3224. Sensing the Elemental (Sponsored by Qualitative Research Specialty Group, Cultural Geography Specialty Group)

**Room:** Room 304, Hynes, Third Level (Paper Session)  
 ORGANIZER(S): Jennifer L. Kitson, Rowan University; Kevin E. McHugh, Arizona State University; Jonathan Bratt, Arizona State University  
 CHAIR(S): Jonathan Bratt, Arizona State University  
**10:00** Angela Sakrison\*, Arizona State University, *A Schizophrenic Clattering of the Jaws: Encountering Process Philosophy in the Nonhuman*.  
**10:20** Amy Proppen, Ph.D.\*, University of California, Santa Barbara: Assistant Professor, Writing Program, *More-than-Human in the Midway: Albatrosses, Plastics, and the Pacific Garbage Patch*.  
**10:40** Jennifer L. Kitson\*, Rowan University; Kevin E.

McHugh\*, Arizona State University, *Vapors, Volatiles and other Airborne Matters*.

**11:00** Jonathan Bratt\*, Arizona State University, *Cou Renao: An Ethico-Aesthetics of Urban Crowding*.

Discussant(s): Sasha H. Engelmann, University of Oxford

## 3225. Understanding Regional Climate Processes and Projections (Sponsored by Climate Specialty Group)

**Room:** Room 305, Hynes, Third Level (Paper Session)  
 ORGANIZER(S): Anji Seth, University of Connecticut  
 CHAIR(S): Anji Seth, University of Connecticut  
**10:00** Ambarish Karmalkar\*, Northeast Climate Science Center, University of Massachusetts Amherst, *Characterization of climate model errors over North America using the CMIP5 multi-model ensemble and HadGEM3-based perturbed parameter ensembles of AMIP and Transpose-AMIP experiments*.  
**10:20** Jeanne M Thibeault, Ph.D.\*, University of Connecticut, *Mechanisms of precipitation variability in the Northeast U.S. - An evaluation of CMIP5 models*.  
**10:40** Sara Rauscher\*, Department of Geography, University of Delaware; Patricia Lawston, Department of Geography, University of Delaware; Emily Aiken, Department of Geography, University of Delaware, *Detection and Attribution of Extreme Temperature Events in the Mid-Atlantic Region*.  
**11:00** Bradfield Lyon\*, University of Maine, *Interpreting CMIP5 Climate Model Projections for East Africa*.  
**11:20** Anji Seth\*, University of Connecticut, *South American Monsoon: Recent droughts in the context of climate change*.

## 3227. Doing geography I: Teaching with Webmaps in the lower division classroom (Sponsored by AAG Careers and Professional Development Theme, Geography Education Specialty Group, Community College Affinity Group)

**Room:** Room 307, Hynes, Third Level (Panel Session)  
 ORGANIZER(S): Sarah Goggin  
 CHAIR(S): Sarah Goggin  
 Panelists: James A. Brey, American Meteorological Society; Christopher W. Post, Kent State University; Derek France, University of Chester; Carol Lynn Campbell, New Mexico State University; Steven Douglas Moore, Center for Spatial Studies

## 3228. New Voices in Rural Geography II (Sponsored by Rural Geography Specialty Group)

**Room:** Room 308, Hynes, Third Level (Paper Session)  
 ORGANIZER(S): Sarah A. Mason-Renton, University of Western Ontario  
 CHAIR(S): Sarah A. Mason-Renton, University of Western Ontario  
**10:00** Kate Wright\*, University of Colorado at Colorado Springs; Cerian Gibbs, PhD, University of Colorado at Colorado Springs; Jesy Ramiadamahefa, Association Nationale des Guides, Madagascar, *Deforestation narratives and forest use realities: Barriers to community involvement in the Anjozorobe-Angavo Forest Corridor Protected Area, Madagascar*.  
**10:20** Gabriel Tamariz, M.Sc.\*, Pennsylvania State University, *Violent rural environments amid the War on Drugs*.  
**10:40** Samuel Hanes\*, University of Maine, *Family Farms on the Water? Amenity Migrants' Perception of Aquaculture Expansion in Maine*.  
**11:00** Agatha Siwale, PhD Candidate\*, Central European University (CEU); Twivwe Siwale, MSc Public Economics - University of York, UK, Zambia Revenue Authority (ZRA), *Has the Promise of Formalizing Artisanal and Small-Scale Mining (ASM) Failed? The Case of Zambia*.

**FRIDAY, April 7 • 10:00 AM - 11:40 AM • 3200****3229. Neurogeography (Sponsored by Graduate Student Affinity Group, Geography Education Specialty Group, Environmental Perception and Behavioral Geography Specialty Group)**

**Room:** Room 309, Hynes, Third Level (Paper Session)  
**ORGANIZER(S):** Megan Brittell, University of Oregon; Amy Lobben, University of Oregon  
**CHAIR(S):** Megan Brittell, University of Oregon  
**10:00** Bob Kolvoord\*, James Madison University, *The Impact of Geospatial Technologies on Students' Spatial Thinking Skills: Behavioral and Neurological Measures.*  
**10:20** Amy Lobben\*, University of Oregon, *Behavioral and Neurological Correlates of GeoSpatial Thinking Skills.*  
**10:40** Megan Brittell\*, University of Oregon, *The Presentation of Space over Time: An fMRI study in Auditory Map Design.*  
**Discussant(s):** Phil Gersmehl, retired, pro bono at Michigan Geographic Alliance

**3230. The complex geographies of inequality in contemporary slum tourism**

**Room:** Room 310, Hynes, Third Level (Paper Session)  
**ORGANIZER(S):** Fabian Frenzel, University of Leicester; Thomas Frisch, University of Hamburg; Tore Holst, Roskilde University  
**CHAIR(S):** Tore Holst, Roskilde University  
**10:00** Thomas Frisch\*, University of Hamburg, *Favela Tourism 2.0. Promises and Challenges.*  
**10:20** Julia Burgold\*, University of Potsdam, *(Sight)seeing poverty in the Global North - Embedding guides tours with (ex-) homeless people.*  
**10:40** Gijsbert Hoogendoorn, Associate Professor, University of Johannesburg; Julia Kathryn Giddy\*, University of Johannesburg, *"Does this look like a slum?" Investigating tourist perceptions of inner city Johannesburg.*  
**Discussant(s):** Fabian Frenzel, University of Leicester

**3231. The Legacy of Karl Butzer Beyond Physical Geography (Sponsored by Cultural and Political Ecology Specialty Group, Geographies of Bread and Water in the 21st Century Featured Theme, History of Geography Specialty Group, Historical Geography Specialty Group)**

**Room:** Room 311, Hynes, Third Level (Paper Session)  
**ORGANIZER(S):** William E. Doolittle, University of Texas - Austin; Gregory W. Knapp, University Of Texas - Austin  
**CHAIR(S):** Gregory W. Knapp, University Of Texas - Austin  
**10:00** Christine Drennon\*, Trinity University, *Asset Accumulation and Educational Opportunity: exploring a complex system in the tradition of Karl Butzer.*  
**10:18** Gregory W. Knapp\*, University Of Texas - Austin, *Persisting Ethnolinguistic Identities: An Ecuadorian Case Study in Homage to Karl and Elisabeth Butzer.*  
**10:36** William E. Doolittle\*, University of Texas - Austin, *Stacking Rocks to Transport Water: From Mallorca to México.*  
**10:54** Cesar N. Caviedes\*, University of Florida, *The European Roots of Karl W. Butzer Scholarship.*  
**11:12** Stanley D. Brunn\*, University of Kentucky, *Butzerian Threads in a Geography Heritage.*  
**Discussant(s):** Kenneth E. Foote, University of Connecticut

**3233. American Resilience Project: Tidewater, A Critical Discussion (Sponsored by Military Geography Specialty Group)**

**Room:** Room 313, Hynes, Third Level (Panel Session)  
**ORGANIZER(S):** Mark Read, United States Military Academy  
**CHAIR(S):** Mark Read, United States Military Academy  
**Introducer:** Mark Read  
**Panelists:** William W. Doe, University of Colorado, Boulder; Francis A. Galgano, Villanova University

**3238. Advances in Analyzing Contextual Effects on Behavior, Practice and Experience II (Sponsored by Health and Medical Geography Specialty Group, Uncertainty and Context in Geography and GIScience Featured Theme)**

**Room:** Independence East, Sheraton, Second Floor (Paper Session)  
**ORGANIZER(S):** Mei-Po Kwan, University of Illinois at Urbana-Champaign; Tim Schwanen, University of Oxford  
**CHAIR(S):** Tim Schwanen, University of Oxford  
**10:00** Jessica Finlay, University of Minnesota; Jay August Bowman\*, University of Minnesota, *The Mobile Interview: Geographies on the Move.*  
**10:20** Edda Bild, University of Amsterdam; Karin Pfeffer\*, University of Amsterdam; Ate Poorthuis, Singapore University of Technology and Design; Matt Coler, Incas3; Luca Bertolini, University of Amsterdam, *An app-based behavioural mapping for visualizing the relationships between users of a park and their auditory environments in space and time.*  
**10:40** Steven Gehrke\*, Portland State University; Liming Wang, Portland State University, *Operationalizing the Neighborhood Effects of the Built Environment on Travel Behavior.*  
**11:00** Yang Cao\*, Nanjing University, *Addressing the UGCoP in research on the relationship between the built environment and medical activities ? A case study of Gaoyou, China..*  
**11:20** Zachary J. Christman, Ph.D.\*, Geography and Environment, School of Earth and Environment, Rowan University; Allison Heid, Ph.D., New Jersey Institute for Successful Aging, Rowan University School of Osteopathic Medicine; Rachel Pruchno, Ph.D., New Jersey Institute for Successful Aging, Rowan University School of Osteopathic Medicine; Maureen Wilson-Genderson, Ph.D., College of Public Health, Temple University, Philadelphia, PA, USA; Francine Cartwright, New Jersey Institute for Successful Aging, Rowan University School of Osteopathic Medicine, *The influence of neighborhood contextual factors on the health and wellbeing of elders following SuperStorm Sandy, New Jersey, USA.*

**3239. How to think about cities? (Sponsored by Urban Geography Specialty Group)**

**Room:** Independence West, Sheraton, Second Floor (Panel Session)  
**ORGANIZER(S):** Regan Koch, Queen Mary University of London; Alan Latham, University College London  
**CHAIR(S):** Regan Koch, Queen Mary University of London  
**Discussant(s):** Colin Mcfarlane, Durham University; Alan Wiig, University of Massachusetts, Boston  
**Panelists:** Davide Ponzini; Andrew Karvonen, University of Manchester; Junjia Ye, Massey University; Leslie Kern, Mount Allison University; Oli Mould

**3240. Biodiversity Conservation in Crowded Landscapes (Sponsored by Cultural and Political Ecology Specialty Group, Africa Specialty Group)**

**Room:** Liberty B, Sheraton, Second Floor (Paper Session)  
**ORGANIZER(S):** Niwaeli Elisante Kimambo, University of Wisconsin; Lisa Naughton, University of Wisconsin - Madison; Jessica L'Roe, Middlebury College  
**CHAIR(S):** Lisa Naughton, University of Wisconsin - Madison  
**10:00** Peter Klepeis\*, Colgate University; Peter Scull, Colgate University, *The Resilience of Ethiopian Church Forests.*  
**10:20** Jessica L'Roe, PhD\*, Middlebury College, *Forest edges in western Uganda: from refuge for the poor to zone of investment.*  
**10:40** Niwaeli Elisante Kimambo\*, University of Wisconsin-Madison; Lisa Naughton-Treves, University of Wisconsin-Madison, *Passive Regeneration, Costly Restoration, or Smallholder Tree-planting as Strategies for Improving Forest Connectivity..*



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**11:00** Amrita Neelakantan\*, Columbia University, *Reconciling social and conservation goals for resettlement of people from protected areas - A case study in central India.*

**11:20** Lisa Naughton, PhD\*, University of Wisconsin, Madison; Niwaeli E Kimambo, M.Sc., University of Wisconsin, Madison; Andrew L'Roe, PhD, University of Wisconsin, Madison; Jessica L'Roe, PhD, Middlebury University; Adrian Treves, PhD, University of Wisconsin, Madison, *Long-term Data on Crop Loss to Wildlife around Kibale National Park, Uganda- Implications for Conflict and Connectivity.*

## **3241. Data accuracy and uncertainty (Sponsored by Uncertainty and Context in Geography and GIScience Featured Theme)**

*Room:* Liberty C, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Uncertainty and Context Theme

CHAIR(S): Marc P. Armstrong, University of Iowa

**10:00** Diana Stuart Sinton, PhD\*, University Consortium for Geographic Information Science; Suzanne P. Wechsler, PhD\*, California State University Long Beach, *Addressing Uncertainty through GIS Curricula.*

**10:20** Pontus Hennerdal, PhD\*, Stockholm University; Michael Meinild Nielsen, PhD, Stockholm University, *A New Multiscalar Approach for Studying Segregation and Clustering that Avoids the Part of the Modifiable Areal Unit Problem Related to the Area of Reference.*

**10:40** Nathan Frey\*, Brown University; John R. Logan, Brown University, *Accuracy of Small Area Estimates of Population Data for Regression Analysis.*

**11:00** Hongyu Zhang\*, University of Western Ontario; Jacek Malczewski, University of Western Ontario, *Evaluating the Quality of the Canadian OpenStreetMap Data and Its Relationship with the Metadata.*

**11:20** Marc P. Armstrong\*, University of Iowa, *How Large Is Aroostook County? Exploring the Historical Mutability of U.S. County Area Measurements.*

## **3242. Economic Geography XI - Institutions and Framework Conditions in Support of Entrepreneurship and Innovation (Sponsored by Economic Geography Specialty Group)**

*Room:* Back Bay Ballroom A, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Dieter Franz Kogler, University College Dublin; Thomas Kemeny, University of Southampton; Pierre-Alexandre Balland, Utrecht University

CHAIR(S): Peter Kedron, Oklahoma State University

**10:00** Johannes Glückler\*, Heidelberg University; Regina Lenz, Heidelberg University, *How institutions moderate the effectiveness of regional policy: a framework.*

**10:20** Thomas Kemeny\*, University of Southampton; Maryann Feldman, UNC Chapel Hill; Nichola Lowe, UNC Chapel Hill, *Sequencing Entrepreneurial Success: An Analysis of Institutional Pathways within the Research Triangle Region.*

**10:40** Riccardo Crescenzi, London School of Economics; Matte Hartog\*, Harvard University, *Institutional Quality and the Location of Multinational Enterprises in Colombia.*

**11:00** Silje Haus-Reve\*, Center for Innovation Research, UiS Business School University of Stavanger, *Institutions and innovative firms in regions in Norway.*

**11:20** Bogang Jun\*, Flavio Pinheiro, Macro Connections, MIT Media Lab; Tobias Buchmann, Hohenheim University; Seung-kyu Yi, Seoul National University; César A. Hidalgo, Macro Connections, MIT Media Lab, *Meet me in the middle: The reunification of the German research and innovation system.*

## **3244. Critical Geographies of Energy Infrastructure II: Spatial, Temporal, and Material Politics (Sponsored by Cultural and Political Ecology Specialty Group, Energy and Environment Specialty Group)**

*Room:* Constitution A, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Anthony Levenda, Arizona State University; Ingrid Behrsin; Sarah E. Knuth, University of Michigan

CHAIR(S): Laura Tozer, University of Toronto

**10:00** Gordon Walker\*, Lancaster University; Mette Kragh-Furbo, Lancaster University, *Re-monetizing electricity (non)flows and commodifying (non)demand: the extending metrological regime of market-based grid balancing.*

**10:20** Carlo E. Sica, MA\*, Syracuse University, *Where's the "structure" in energy infrastructure?.*

**10:40** Conor Harrison\*, University of South Carolina; Jeff Popke, PhD, East Carolina University, *Mining steam: The promise and peril of geothermal energy in the Caribbean energy transition.*

**10:50** Aysen Eren, PhD Student\*, Bogazici University; Orhan Yenigun, Prof. Dr., Bogazici University, *The Materiality Matters: Emerging Environmental Stresses and Risks on The Rivers with The Liberal Electricity Price Setting Mechanisms in Turkey.*

Introducer: Jeff Popke

## **3245. Geographies of resilience and entrepreneurial cultures (2)**

*Room:* Constitution B, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Chay Brooks; Tim Vorley, University of Sheffield

CHAIR(S): Tim Vorley, University of Sheffield

**10:00** Elisabeth Reynolds, Ph.D.\*, MIT, *Innovation, Production and Location: Advanced Manufacturing Technologies, Trends and implications for U.S. Cities and Regions.*

**10:20** Karl Häfner\*, University of Tübingen, *Path Development between Routines, Actors, Institutions, and Relations.*

**10:40** Nelli Mikkola\*, Nordregio; Jukka Teräs, Nordregio, *The potential of regional green growth policies for the improvement of regional economic resilience - Experiences from sparsely populated Nordic regions.*

**11:00** Jukka T. Teräs\*, Nordregio; Päivi Oinas, PO, University of Turku, Finland, *Collective competence and economic resilience in the three industrial transformations of Oulu.*

## **3248. Social Media and Activism: Media and Communication Geography Session IV (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme, Communication Geography Specialty Group)**

*Room:* Beacon D, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Emily Fekete, Oklahoma State University

CHAIR(S): Lorna Emma O'Hara, Department of Geography, Maynooth University Ireland.

**10:00** Madeleine Wong\*, St. Lawrence University; Rutendo Chabikwa, St. Lawrence University, *#FeesMustFall: Engaging youth subjectivities and social movements in South Africa.*

**10:20** Sara McDowell\*, University of Ulster, *Networked separatism in a changing Europe: Agency, activism and the social network.*

**10:40** Frederick Nadeau\*, Institut national de la recherche scientifique, *Political Engagement and Radicalization: Does Space Still Matter? Activism in a Canadian Extreme Right Movement.*

**11:00** Lorna Emma O'Hara, PhD Candidate\*, Department of Geography, Maynooth University Ireland., *Feminist art and activism: a study of pro-choice resistance in Ireland.*

## **3249. China as Methods II (Sponsored by China Specialty Group, Asian Geography Specialty Group, Cultural Geography Specialty Group)**

*Room:* Beacon E, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Yimin Zhao, London School of Economics; Yueming Zhang, University of Birmingham; Yang Yang, University of Colorado At Boulder



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CHAIR(S): Yimin Zhao, London School of Economics

**10:00** Ding Fei\*, University of Minnesota - Minneapolis, *From Xinjiang to Addis Ababa: Encountering China at its "periphery" and "frontier"*.

**10:20** Yang Yang\*, University of Colorado At Boulder, *Displaying Connections between Chinese and Global Muslim Communities through Fashions in Transnational Urban Space in the Hui Quarter in Xi'an.*

**10:40** Jing Luo\*, Tsinghua University, *Of "Other" People: The Exotic Landscape of Chinese Diasporas (and Its Rejection) in Boston.*

**11:00** Wing-shing Tang\*, Hong Kong Baptist University, *Not 'China as Methods' but 'Chinese "dialectics" as a Methodology: The Tongbian Approach.*

Discussant(s): Max D. Woodworth, The Ohio State University

## 3250. Spatial Inequality, Justice and Policy I: Eurasia (Sponsored by Regional Development and Planning Specialty Group, Urban Geography Specialty Group, Economic Geography Specialty Group)

Room: Beacon F, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Yehua Dennis Wei, University of Utah

CHAIR(S): Sebastien Breau, McGill University

**10:00** Andres Rodriguez-Pose\*, London School of Economics, *Institutional change and regional development in Europe. Does quality of government shape regional inequality?.*

**10:20** Didier Desponds\*, University of Cergy-Pontoise, *From 1990 to 2010, measuring the social segregation in order to evaluate the consequences of social-mix policy. The case of the Urban Unit of Paris.*

**10:40** Joana Barros\*, Birkbeck, University of London, *Measuring spatial segregation: a comparative study between metropolitan areas of São Paulo and London.*

**11:00** Natalia Zdanowska\*, UMR Géographie-cités CNRS; Natalia Zdanowska, Université Paris 1 Panthéon-Sorbonne UMR Géographie-cités, *Towards an integrated Central and Eastern Europe? Study of investments networks in 2013.*

**11:20** Javier Revilla Diez\*, University of Cologne; Franziska Sohns, University of Cologne, *Who survives over time? - A multilevel survival analysis of micro enterprises in rural Vietnam.*

## 3253. Capitalism, Bodies, and Space 2

Room: Dalton A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Jessica Hayes-Conroy, Hobart & William Smith Colleges; Jeffrey David Blankenship, Hobart & William Smith Colleges

CHAIR(S): Jessica Hayes-Conroy, Hobart & William Smith Colleges

Introducer: Jeffrey David Blankenship

**10:02** Ervin B. Kosta\*, Hobart and William Smith Colleges, *The Comparative Remaking of four rustbelt small urban downtowns: Urban Restructuring, Retail Specialization, and Localized Bodies.*

**10:22** Grover Wehman-Brown, PhD, University of North Carolina at Chapel Hill, *Homelessness and the gendered labor of differential care.*

**10:42** Christina E. Dando\*, University of Nebraska Omaha, *"She scorches now and then": American Women and the Construction of 1890 Cycling Spaces.*

**11:02** Jessica Hayes-Conroy\*, Hobart & William Smith Colleges; Jeffrey David Blankenship\*, Hobart & William Smith Colleges, *Privileged Mobilities: The Art of Capitalist Coasting.*

Discussant(s): Paul S. B. Jackson, University of Delaware

## 3255. Infrastructures Within and Beyond B/Ordered Geographies of the Global South I

Room: Hampton A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Sophie Schramm, Universität Kassel; Prince Karakire Guma, Darmstadt University of Technology; Amiel Bize

CHAIR(S): Sophie Schramm, Universität Kassel

**10:00** Prince Karakire Guma, Mr.\*, Darmstadt University of Technology, *Producing technology within everyday urban geographies of encounter: The Case of Jisomee Mita in Soweto-Kayole.*

**10:20** Morgan Mouton\*, LATTS - Université Paris-Est, *'Modernity': a useful category of analysis for the study of infrastructure provision in the Global South? Evidence from Metro Manila, the Philippines..*

**10:40** Nadine Appelhans, Dr.\*, TU Dortmund University, *The organisational landscape of transport provision in Nairobi and Dar es Salaam.*

**11:00** Swetha Rao Dhananka\*, Indian Institute for Human Settlements / Development Planning Unit UCL, UK, *Advertising as soft infrastructure for India's urban imaginaries: The case of Karnataka's Global Investor's Meet.*

## 3256. Urban Land Modelling and Urban Sustainability (II)

Room: Hampton B, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Qingxu Huang, Beijing Normal University

CHAIR(S): Qingxu Huang, Beijing Normal University

**10:00** Xuefei Zhang\*, Institute of Geography, Chinese Academy of Science, *Land resources carrying capacity evaluation and pre-warning in Xiamen city, China.*

**10:20** Liu Qianqian\*, *Estimation of China's urban municipal public service facilities and its efficiency using the Entropy Method and DEA model.*

**10:40** Peijun Wu\*; Xia Li, School of Geography and Planning, Sun Yat-sen University; Xiaoping Liu, School of Geography and Planning, Sun Yat-sen University; Yimin Chen, School of Geography and Planning, Sun Yat-sen University, *Impact of urban expansion on carbon storage in terrestrial ecosystems based on InVEST model and CA: A case study of Guangdong Province, China.*

**11:00** Ashley C. Pilipiszyn, PhD Candidate\*, University of Geneva, *21st Century Climate & Energy Strategies to Secure Urban Sustainability: The Case of Los Angeles.*

**11:20** Xue Zhao\*, Beijing Normal University; Qingxu Huang, Beijing Normal University; Chunyang He, Beijing Normal University, *Scenarios Simulation of the Spatial Stress on the Wetlands by Urban Expansion: A Case Study of Huailai County.*

## 3257. Spatiotemporal data modelling and analytics (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group, Spatial Analysis and Modeling Specialty Group)

Room: Gardner A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Myeong Hun Jeong; Yizhao Gao, University of Illinois; Zhenhong Du, Zhejiang University, China

CHAIR(S): Myeong Hun Jeong

**10:00** Zhenhong Du\*, Zhejiang University, China; SenSen Wu, Zhejiang University, *Geographically and circle-temporally weighted regression for modeling spatio-temporal heterogeneity of chlorophyll-a investigation in the coastal sea.*

**10:20** Idaliya Grigoryeva\*, University of British Columbia, *Going Through the 'Roof': Price Diffusion on the Vancouver Housing Market.*

**10:40** Ting Li\*, University of Illinois; Yizhao Gao, University of Illinois; Shaowen Wang, University of Illinois at Urbana-Champaign, *Expansion-based Spatial Clustering over Inhomogeneous Background.*

**11:00** Lauren R Pharr, PhD\*, Pharr Forensic Consulting, LLC, *Using GPS to Track Vultures in Texas.*

**11:20** Myeong Hun Jeong\*, The University of Illinois at Urbana-Champaign; Shaowen Wang, University of Illinois at

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Urbana-Champaign, *Robust spatiotemporal hypothesis testing using data depth.*

**3258. Spatial Discourses of Reproduction 2: Reproduction and Place**

*Room:* Gardner B, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Marcia R. England, Miami University; Helen Hazen, University of Denver; Maria Fannin, University of Bristol

CHAIR(S): Marcia R. England, Miami University

**10:00** Maria Fannin\*, University of Bristol, *Making an 'embryological vision of the world:' law, maternity, and the Kyoto Collection.*

**10:20** Sayani Mitra\*, University of Göttingen, Germany, *Reproductive disruptions and the transforming spatio-temporalities of the surrogate bodies.*

**10:40** Dalia Bhattacharjee, Doctoral Candidate\*, Indian Institute of Science Education and Research, Mohali, *Unfolding the Public-Private: The Spatial Negotiations in Commercial Surrogacy Industry in India.*

**11:00** Helen Hazen\*, University of Denver, *"The Best of Both Worlds?": Mothers' narratives around birth center experiences.*

**11:20** David Lee Baylis, PhD\*, Delta State University, *Reorienting the nation through scientific motherhood in the early Turkish Republic..*

**3259. Impact of Payments for Ecosystem Services on the Dynamics of Coupled Natural and Human Systems: Part II (Sponsored by China Specialty Group, Remote Sensing Specialty Group)**

*Room:* Fairfax A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Li An, San Diego State University

CHAIR(S): Li An, San Diego State University

**10:00** Jonathan Otto\*, *Peacebuilding, Food Security and Climate Change Mitigation in Colombia.*

**10:20** Jonas Ibrahim Hein\*, German Development Institute, *The Transnationalization of competing state projects - Carbon Offsetting and development in Sumatra's peat swamps.*

**10:40** Brandyn Balch\*, SUNY Geneseo, *Prioritizing Conservation Easement Acquisitions in the Genesee River Watershed of Western New York.*

**11:00** Li An\*, San Diego State University; Weiyong Zhang, Fanjingshan National Nature Reserve, China; Lei Shi, Fanjingshan National Nature Reserve, China; Richard Bilsborrow, University of North Carolina, Chapel Hill; Shuang Yang, San Diego State University; Xiaodong Chen, University of North Carolina, Chapel Hill, *Complexities in participating in payments for ecosystem services programs.*

**3260. Developing Innovative Broader Impacts in for Proposals Submitted to the National Science Foundation (Sponsored by AAG Careers and Professional Development Theme)**

*Room:* Fairfax B, Sheraton, Third Floor (Panel Session)

ORGANIZER(S): Antoinette WinklerPrins, National Science Foundation

CHAIR(S): Antoinette WinklerPrins, National Science Foundation

Introducer: Antoinette WinklerPrins

Discussant(s): Sally P. Horn, University Of Tennessee; Patricia Ehrkamp, University of Kentucky; Scott A. Mensing, University of Nevada - Reno; Maryann Feldman; George P. Malanson, University of Iowa

**3261. Uncomfortable theoretical fit II? China in the lens of neoliberalism and post-colonialism (Sponsored by China Specialty Group, Urban Geography Specialty Group, Development Geographies Specialty Group)**

*Room:* Jefferson, Sheraton, Third Floor (Panel Session)

ORGANIZER(S): Yu Zhou, Vassar College

CHAIR(S): Jun Zhang, University of Toronto

Panelists: Wei Xu, University Of Lethbridge; I-Chun Catherine Chang, Macalester College; Shenjing He, The University of Hong Kong; Alana Boland, University of Toronto; Piper Gaubatz, University Of Massachusetts; George C.S. Lin, University of Hong Kong

**3263. Engagements with the work of Dianne Rocheleau II: emergent ecology and rooted networks (Sponsored by Cultural and Political Ecology Specialty Group)**

*Room:* Commonwealth, Sheraton, Third Floor (Panel Session)

ORGANIZER(S): Katherine Foo, Pennsylvania State University; Jennifer Brewer, University of New Hampshire; Robin Roth, University of Guelph

CHAIR(S): Katherine Foo, Pennsylvania State University

Introducer: Jacqueline Vadjunec

Discussant(s): B. L. Turner II, Arizona State University

Panelists: Mary Lawhon, Florida State University; Katherine Foo, Pennsylvania State University; Patricia A. Benjamin, Worcester State University; Marla R. Emery, USDA Forest Service

**3265. Ethnic Geography Specialty Group Honors Professor Derek Alderman (Sponsored by Urban Geography Specialty Group, Cultural Geography Specialty Group, Ethnic Geography Specialty Group)**

*Room:* Tremont, Marriott, First Floor (Panel Session)

ORGANIZER(S): Madhuri Sharma, University of Tennessee, Knoxville; Carlos Teixeira, University of British Columbia Okanagan

CHAIR(S): Madhuri Sharma, University of Tennessee, Knoxville

Introducer: Madhuri Sharma

Introducer: Carlos Teixeira

Panelists: Jamie L. Winders, Syracuse University; Joshua F. Inwood, Pennsylvania State University; Eddie Arold Modlin, Norfolk State University; Hilda Kurtz, University of Georgia; Matthew Cook, Eastern Michigan University; Matthew Mitchelson, Kennesaw State University; Derek H. Alderman, University of Tennessee

**3266. Public Art: Spaces As Sites of "Living Together" (Sponsored by Cultural Geography Specialty Group)**

*Room:* Columbus 1, Marriott, First Floor (Paper Session)

ORGANIZER(S): Laurent Vernet, Institut national de la recherche scientifique; Joni M. Palmer, University of Colorado at Boulder

CHAIR(S): Laurent Vernet, Institut national de la recherche scientifique

**10:00** John C. Western, Prof of Geography, Syracuse University\*, *Syracuse University, Art memorialising "The Struggle" in Cape Town: appreciation or its converse?.*

**10:20** Eva Susanne Hericks-Bares, Ph.D.\*, University of North Carolina Asheville, *Re-Invisioning and Re-Creating the Urban Place Experience - How 60 Years of Documenta Have Changed Kassel, Germany.*

**10:40** Laurent Vernet, Ph.D.\*, Independent researcher, *The Social Life of Artworks in Public Spaces: Critical Perspectives.*

**11:00** Elle Flanders, PhD\*, Public Studio; Tamira Sawatzky, April, Public Studio, *Public Studio.*

**11:20** Kirstie Jamieson\*, Edinburgh Napier University, *Playfully Public: Edinburgh's Botanic Lights.*

**3267. Slow Violence and the Environment II (Sponsored by Political Geography Specialty Group, Human Dimensions of Global Change Specialty Group, Energy and Environment Specialty Group)**

*Room:* Columbus 2, Marriott, First Floor (Paper Session)

ORGANIZER(S): Ruth Trumble, University of Wisconsin - Madison; Shannon O'Lear, University of Kansas

CHAIR(S): Shannon O'Lear, University of Kansas

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**10:00** Ruth Trumble\*, University of Wisconsin - Madison, *The Past is Present: Intersections of slow violence and disaster recovery.*

**10:20** Lauren Richter, M.A.\*, Northeastern University, *Constructing Insignificance? Applying Racial Contract Theory to Regulatory Failure in Environmental Justice Communities.*

**10:40** Himanshu Burte\*, Tata Institute of Social Sciences (TISS), Mumbai, *Tearing through the neighbourhood: conflicting temporalities of infrastructure, project and informal place.*

**11:00** Dawn Biehler\*, University of Maryland Baltimore County, *Narratives of Infrastructure and Sanitary Collapse: Framing Environmental Injustice After Redlining in Baltimore, Maryland, USA.*

Discussant(s): Shannon O'Lear, University of Kansas

**3268. The state of Disability Geography: a Plenary lecture by Vera Chouinard (Sponsored by International Research and Scholarly Exchange Committee, Disability Specialty Group)**

*Room:* St. Botolph, Marriott, Second Floor (Paper Session)

ORGANIZER(S): Susanne Zimmermann-Janschitz, University of Graz; Sandy Wong, University of Illinois at Urbana-Champaign; Andrew Myers, University of Montana

CHAIR(S): Susanne Zimmermann-Janschitz, University of Graz

Discussant(s): Vera Chouinard, McMaster University

**3269. Transnational Cultural and Natural Heritage in Asia: Contours of Boundary-Transgressing Memoryscapes (II) (Sponsored by Recreation, Tourism, and Sport Specialty Group, China Specialty Group, Asian Geography Specialty Group)**

*Room:* Regis, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Rudi Hartmann, University of Colorado

CHAIR(S): Rudi Hartmann, University of Colorado

**10:00** Rudi Hartmann\*, University of Colorado, *Memorial Sites of the Pacific War 1937 - 1945 in China, in Japan and in the U.S.: A case for transnationalizing divergent commemoration practices?.*

**10:20** Shu-Wei Tsai\*, University of California - Berkeley, *Heritage Modernity: The Preservation of the Grand Canal in Beijing and Hangzhou.*

**10:40** Xiaolin Zang\*, Utrecht University; Bouke van Gorp, Utrecht University; Hans Renes, Utrecht University, *The Interpretation of Colonial Heritage in Four Chinese Cities? Identity and Professional Perspectives.*

**11:00** Neda Moayerian\*, Virginia Polytechnic Institute & State University, *Local Non-Governmental Organizations' Role in Globalization Process in Developing Countries.*

Discussant(s): Velvet Nelson, Sam Houston State University

**3270. Informality, legitimacy and authority in the age of the "Circular Economy" (Sponsored by Cultural and Political Ecology Specialty Group, Development Geographies Specialty Group)**

*Room:* Northeastern, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Freyja L. Knapp, University of California, Berkeley; Manisha Anantharaman, Saint Mary's College of California

CHAIR(S): Manisha Anantharaman, Saint Mary's College of California

Introducer: Freyja L. Knapp

**10:05** Susse Georg, Professor, PhD\*, University of Aalborg, Copenhagen campus; Chiara Fratini, Researcher, PhD, Aalborg University, Copenhagen Campus; Michael S. Joergensen, Associate Prof, PhD, Aalborg University, Copenhagen Campus, *Exploring the epistemic infrastructures of circular economy: a research agenda with relevance for the governance of sustainable urban transitions.*

**10:25** Julia Eleanor Corwin\*, University of Minnesota -

Minneapolis, *Discards, Supply Chains and the Market: Exploring corporate IT production from the Delhi repair shop.*

**10:45** Cindy Isenhour, PhD\*, University of Maine - Orono, ME, *"Feeling the Pinch": On growing competition and exclusion in Maine's discard markets.*

**11:05** Tobiah Horton\*, Rutgers University, *An Urban Garden Cycle: Transforming Material, Space and Knowledge.*

Discussant(s): Jennifer Tucker, University of New Mexico

**3271. Transforming urban places: understanding community - I Brandeis, Marriott, Third Floor (Paper Session)**

ORGANIZER(S): Charles John Barlow, University of Chicago; Julie Clark, University of Glasgow

CHAIR(S): Charles John Barlow, University of Chicago

**10:00** Troy D. Glover\*, University of Waterloo, *The Transformative Possibilities of Animating Public Space.*

**10:20** Amy E. Rock, Ph.D.\*, Humboldt State University, *Citizen Participation in Rural Public Projects.*

**10:40** Charles John Barlow\*, University of Chicago, *Managing expectations in urban placemaking: civic engagement and public land disposition.*

Discussant(s): Julie Clark, University of Glasgow

**3272. Quiet Social Movements & Everyday Life in the urban global South: Towards New Geographies of Social Change II (Sponsored by Qualitative Research Specialty Group)**

*Room:* MIT, Marriott, Third Floor (Panel Session)

ORGANIZER(S): Susmita Rishi, University of Washington; Amy Pedalue, University of Washington

CHAIR(S): Mark Purcell, University of Washington

Discussant(s): Mark Purcell, University of Washington

Panelists: Allison Hayes-Conroy, Temple University; Jennifer Porter, University of Washington; Anesu Makina, Florida State University; Miles Kenney-Lazar, Clark University; Danielle Zoe Rivera, University of Colorado, Boulder

**3273. The Theory and Politics of David Harvey's 'Accumulation by Dispossession' -- 2 (Sponsored by Political Geography Specialty Group, Economic Geography Specialty Group)**

*Room:* Boston University, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Raju J. Das, York University

CHAIR(S): Robert M. Bridi, York University

**10:00** Komalirani Yenneti, Dr\*, University of New South Wales; Rosie Day, Dr, University of Birmingham; Oleg Golubchikov, Dr, Cardiff University, *Spatial justice and the land politics of renewables: dispossessing vulnerable communities through solar energy mega-projects.*

**10:20** Andrew W Hoyt\*, University of North Texas, *Commodification of Agriculture using Genetically Modified Organisms and Dispossession of the Rural Small Farmers in India.*

**10:40** Ethan S. Earle, PhD Candidate, Public & Urban Policy\*, Rosa Luxemburg Stiftung?New York Office, *The New Urban Agenda and Implications for Accumulation by Dispossession.*

Discussant(s): Alexander Benjamin Vorbrugg, Goethe University Frankfurt

**3274. Geospatial Health Research Symposium: Neighborhood Built Environment, Obesity, BMI, food access II (Sponsored by Urban Geography Specialty Group, Health and Medical Geography Specialty Group)**

*Room:* Simmons, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Eric M. Delmelle, University of North

Carolina at Charlotte; Michael J. Widener, University of Toronto; Mei-Po Kwan, University of Illinois at Urbana-Champaign

CHAIR(S): Thomas Whitfield



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**10:00** Thomas Whitfield\*, Pennsylvania State University, *Food Deserts in Minneapolis and St. Paul, Minnesota: Refining Healthy Food Access through Demographic Analysis and Spatial Weighting of Food Store Locations.*

**10:20** Tara Kamal Ahmadi\*, University of Toronto; Michael J Widener, PhD, University of Toronto; Leia Minaker, PhD, University of Waterloo; Lukar Thorton, PhD, Deakin University, *A Systematic Review of Activity Spaces and Food-related Behaviours.*

**10:40** James Roland Dunn\*, McMaster University, *A Policy Implementation Tool for Healthier Urban Form in Peel Region of Greater Toronto.*

**11:00** Yanqing Xu\*, University of Toledo; Yanhong Liu, University of Toledo, *A Longitudinal Analysis of Neighborhood Built Environment and Risk of Obesity in the U.S..*

Discussant(s): Eric M. Delmelle, University of North Carolina at Charlotte

## 3275. Symposium on Human Dynamics in Smart and Connected Communities: Methods and Practices for Estimating Gridded Global Population (Sponsored by Population Specialty Group)

Room: Suffolk, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Charlie E. Frye, ESRI, Inc.; Amy Rose, Oak Ridge National Laboratory

CHAIR(S): Charlie E. Frye, ESRI, Inc.

**10:00** Charlie Frye\*, Environmental Systems Research Institute, Inc.; Dawn J. Wright, PhD, Environmental Systems Research Institute, Inc.; Earl Nordstrand, Environmental Systems Research Institute, Inc., *Detecting the Likelihood of Textural Features in Landsat8 Panchromatic Imagery to Model Human Settlement.*

**10:20** Forrest R. Stevens, Ph.D.\*, University of Louisville; Andrea E. Gaughan, Ph.D., University of Louisville; Catherine Linard, Ph.D., Université Libre de Bruxelles; Alessandro Soricchetta, Ph.D., University of Southampton; Graeme Hornby, University of Southampton; Jeremiah Nieves, University of Southampton; Christopher Lloyd, Ph.D., University of Southampton; Maksym Bondarenko, Ph.D., University of Southampton; Andrew J. Tatem, Ph.D., University of Southampton, *Increases in Spatiotemporal Resolution for Modelling Human Population Distribution Globally.*

**10:40** Jacob McKee\*, Oak Ridge National Laboratory; Amy Rose, PhD, Oak Ridge National Laboratory, *Leveraging LandScan HD for Dynamic Population Assessments.*

**11:00** Greg Yetman\*, CIESIN, Columbia University, *Modeling the Distribution of Human Population: the High Resolution Settlement Layer.*

**11:20** Sergio C. Freire\*, European Commission ? Joint Research Centre (JRC); Martino Pesaresi, European Commission ? Joint Research Centre (JRC); Kytt MacManus, Columbia University CIESIN, *Mapping population distribution and assessing urbanization on Earth, 1975-2015: The Global Human Settlement Layer.*

## 3276. Symposium on Human Dynamics in Smart and Connected Communities: Spatial-Social Networks in GIS 2 (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group, Spatial Analysis and Modeling Specialty Group)

Room: Wellesley, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Xinyue Ye, Kent State University; Xingjian Liu, University of Hong Kong; Clio Andris

CHAIR(S): Clio Andris

**10:00** Miaoqi Zhao\*, Department of Urban Planning, South China University of Technology; Wenmin Liang,

Department of Urban Planning, South China University of Technology; Gaofeng Xu, Department of Urban Planning, Tsinghua University, *Urban Networks of Leisure Activities: Using Douban Event to Measure Interaction in the Mega-city Region of the Pearl River Delta.*

**10:20** Huiyu Lin\*, Kent State University; Xinyue Ye, Kent State University, *Examining the Relationship between the Socioeconomic Status of Local Communities and Their Responses to Natural Hazards Using Twitter.*

**10:40** Shin Alexandre Koseki, PhD\*, EPFL-Swiss Institute of Technology Lausanne, *Mapping Democracy: Exploring Political Polarization with Social Network Analysis.*

**11:00** Balazs Lengyel\*, MIT; Marta Gonzalez, MIT, *Spatial diffusion over the full life-cycle of an online innovation: uncoupling the effects of social networks and physical proximity.*

**11:20** Raphael F. Saldanha\*, UFJF; Maria Teresa Bustamante Teixeira, UFJF, *Flow dynamics of cancer patients in Brazil: hidden migration patterns.*

## 3277. Real Estate Technologies: Genealogies, Frontiers, & Critiques I (Sponsored by Urban Geography Specialty Group, Economic Geography Specialty Group)

Room: Harvard, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Will Payne, University of California - Berkeley; Sarah E. Knuth, University of Michigan; Dillon Mahmoudi, Portland State University

CHAIR(S): Will Payne, University of California - Berkeley

**10:00** Joe Shaw\*, University of Oxford, *Hyperreal Estate: Digital urban information as engine or camera?.*

**10:20** Kathe Newman\*, Rutgers University; Nicholas Shatan\*, Rutgers University, *Origins and Adaptations of FHA-Insured Urban Multifamily Housing, 1938 - Present.*

**10:40** Philip Ashton\*, University of Illinois at Chicago; Rachel Weber, University of Illinois at Chicago, *Hordes with Cash: Real Estate Funding Platforms and the Legal-Regulatory Constitution of the Crowd.*

**11:00** Dallas Rogers\*, Western Sydney University; Desiree Fields, Dr, University of Sheffield, *Key Issues In Digital Real Estate: Cohorts, Platforms, Data, Labour.*

Discussant(s): David O'Sullivan, University of California, Berkeley

## 3279. Land Change 1: Agribusiness, Small-holder farming and global drivers (Sponsored by Cultural and Political Ecology Specialty Group, Human Dimensions of Global Change Specialty Group, Geographies of Food and Agriculture Specialty Group)

Room: Arlington, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Richard J. Aspinall

CHAIR(S): Emilio F. Moran, Michigan State University

**10:00** Sara Torres\*, Michigan State University, *Understanding Brazilian agribusiness: A comparison between producers in frontier and established areas.*

**10:20** Yue Dou\*, Center for Systems Integration and Sustainability, Michigan State University; Peter Deadman, University of Waterloo; Marta Berbes, University of Waterloo; Sergio Vogt, Universidade Federal do Para; Oriana Almeida, Universidade Federal do Para; Nathan Vogt, Universidade do Vale da Paraiba, *Exploring the resilient strategy for smallholders? a case study of Brazilian Amazon using agent-based model.*

**10:40** Gabriel Granco\*, Kansas State University; Marcellus Caldas, Ph.D., Kansas State University; Paulo De Marco Jr, Ph.D., Federal University of Goias, *Climate Change and Land Use Policies: The Brazilian Sugarcane Zoning Policy.*

**11:00** Stephanie Spera\*, Dartmouth College; Leah VanWey, Brown University, *The Drivers of Sugarcane Expansion in Goias, Brazil.*



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**11:20** Emilio F. Moran, PhD\*, Michigan State University,  
*Finding a Way: Soybean farmers struggle to make ends meet in a tightly coupled global economy.*

**3280. The Geography of Entrepreneurship and its Ecosystems II (Sponsored by AAG Careers and Professional Development Theme, Economic Geography Specialty Group, Business Geography Specialty Group)**

*Room:* Berkeley, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Elizabeth Mack, Michigan State University; Heike Mayer, University of Bern, Switzerland; Geographisches Institut; Murray Rice, University of North Texas

CHAIR(S): Murray Rice, University of North Texas

**10:00** Edward Malecki\*, Ohio State University,  
*Entrepreneurship, Ecosystems, and Environments.*

**10:20** Mary Donegan\*, University of North Carolina-Chapel Hill; Nichola Lowe, University of North Carolina-Chapel Hill, *Going Local: Placing Entrepreneurial Microgeographies in a Larger Regional Context.*

**10:40** Marianne De Beer\*, Utrecht University, *Placing local entrepreneurship in the entrepreneurial ecosystems concept: a mutually reinforcing relationship?.*

**11:00** Kevin Credit\*, Michigan State University; Elizabeth Mack, Michigan State University, *Place-Making and Performance: The Impact of Walkable Urban Design on Sales Volume in Phoenix and Boston.*

**3281. Geographies of infrastructure, state-making and political subjectivity - I**

*Room:* Clarendon, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Dinesh Paudel, Appalachian State University; Katharine Rankin, University of Toronto; Elsie Lewison, University of Toronto

CHAIR(S): Dinesh Paudel, Appalachian State University

**10:00** James D Sidaway\*, National University of Singapore, *Chinese Narratives on "One Belt One Road" in Geopolitical and Imperial Contexts.*

**10:20** Aharon de Grassi\*, *Infrastructure as Archive: Reading Colonial Road Maps for Histories of Forced Labor.*

**10:40** Yaffa Truelove, PhD\*, Yale-NUS College, *Disrupted Waters: The Uneven Hydro-Social Geographies and Infrastructural Violence of Delhi's 2016 Water Crisis.*

**11:00** Elsie Lewison\*, University of Toronto; Katharine Rankin, Professor, University of Toronto, *Transnational rationalities of roads: Foreign aid and transportation infrastructure development in Nepal.*

**11:20** Diego Garcia Mejuto\*, Newcastle University, *Advancing Spatial Hegemonic Projects through Transport Infrastructure: High-Speed Rail Development in a Contested Nation-State.*

**3282. Roundtable Discussion in Honor of Nicholas Entrikin**

*Room:* Dartmouth, Marriott, Third Floor (Panel Session)

ORGANIZER(S): Benjamin Forest, McGill University; Nicolas Howe, Williams College

CHAIR(S): Benjamin Forest, McGill University

Introducer: Benjamin Forest

Discussant(s): Audrey L. Kobayashi, Queen's University; Nicolas Howe, Williams College; Anssi Paasi, University of Oulu; Stephen Daniels, University Of Nottingham; Terence Young, California State Polytechnic University-Pomona; Benjamin Forest, McGill University; J Nicholas Entrikin, UCLA and University of Notre Dame

**3283. Conceptualizing the Integration of Unmanned Aerial Systems (UAS) Technology into Geography and GIScience Research (Sponsored by Geographic Information Science and Systems Specialty Group, Remote Sensing Specialty Group)**

*Room:* Exeter, Marriott, Third Floor (Panel Session)

ORGANIZER(S): Adam Mathews, Oklahoma State University;

Amy E. Frazier, Oklahoma State University; Britta Ricker, University of Washington Tacoma

CHAIR(S): Britta Ricker, University of Washington Tacoma

Introducer: Britta Ricker

Panelists: James T. Dietrich, Dartmouth College; Amy E. Frazier, Oklahoma State University; Jeff Sloan, United States Geological Survey; Mark Alan Fonstad, University of Oregon; L. Monika Moskal, University of Washington

**3284. GISS Specialty Group Honors Student Paper Competition (Sponsored by Geographic Information Science and Systems Specialty Group)**

*Room:* Fairfield, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Thomas Crawford, Saint Louis University

CHAIR(S): Thomas Crawford, Saint Louis University

**10:00** Eun-Kyeong Kim\*, The Pennsylvania State University, *Local Indicators of Temporal Burstiness and its Application to Geographic Events.*

**10:20** Li Xu\*, University of Illinois at Urbana-Champaign; Mei-Po Kwan, University of Illinois at Urbana-Champaign; Sara McLafferty, University of Illinois at Urbana-Champaign; Shaowen Wang, University of Illinois at Urbana-Champaign, *Predicting Demand for 311 Non-Emergency Municipal Services: An Adaptive Space-Time Kernel Approach.*

**10:40** Man Zhu Yu\*, George Mason University; Chaowei Yang, George Mason University, *Multidimensional Data Modeling and Pattern Mining for Natural Phenomena.*

**11:00** Junyi Huang\*, Hong Kong Baptist University; Qiming Zhou, Hong Kong Baptist University, *Analysis of Terrestrial Water Storage and Its Possible Influencing Factors in Aridzone of China: What Can GRACE Satellite Tell Us?.*

**11:20** Bo Yan\*, University of California, Santa Barbara; Krzysztof Janowicz, University of California, Santa Barbara; Sathya Prasad, Esri; Gengchen Mai, University of California, Santa Barbara, *Beyond Coordinates: Incorporating Geographic Knowledge into Geocoding Services Using Linked Open Data.*

**3285. Geographies of Degrowth, Part II: 'Transformations' (Sponsored by Cultural and Political Ecology Specialty Group)**

*Room:* Salon H, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Federico Demaria, Universitat Autònoma de Barcelona; Karen Bakker, University of British Columbia; Giorgos Kallis, Universitat Autònoma de Barcelona

CHAIR(S): Federico Demaria, Universitat Autònoma de Barcelona

Introducer: Federico Demaria

**10:20** Bengi Akbulut, PhD\*, Independent Researcher, *State Hegemony and the Imperative of Economic Growth: Lessons from Turkey.*

**10:40** David Ravensbergen\*, York University, *Between Post-Work and More Work: Prospects for Degrowth.*

**11:00** Pasi Heikkurinen\*, University of Leeds, *Is Everything Transformative? An Ecosophical Anarchist Lens to Degrowth and Social Change.*

**11:20** Christoph Rupprecht, PhD\*, Research Institute for Humanity and Nature; Steven McGreevy, PhD, Research Institute for Humanity and Nature, *Degrowing urban Japan: From vacant lots to biocultural cityscapes.*

**3286. 3D Virtual and Augmented Realities for Geoinformation Science II (Sponsored by Geographic Information Science and Systems Specialty Group, Cartography Specialty Group)**

*Room:* Salon I, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Alexander Klippel, Pennsylvania State University

CHAIR(S): Alexander Klippel, Pennsylvania State University

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**10:00** Yuting CHEN\*, The Chinese University of Hong Kong; Hui LIN, The Chinese University of Hong Kong, *Immersive and Interactive Collaboration Work Based on Virtual Geographic Environment.*

**10:20** Ben Ma\*, The Chinese University of Hong Kong; Sai Leung NG, The Chinese University of Hong Kong; Hui Lin, The Chinese University of Hong Kong; Guibo Sun, The University of Hong Kong, *Integration of AR and Built Environment: AR technologies Promote the Use of public space?.*

**10:40** Byungyun Yang\*, DePaul University; Jungil Lee, Director of the Center for Geospatial Research at Shinhan Aerial Survey, *Improving Accuracy of Automated 3-D GIS Urban Models for Smart City.*

**11:00** Audrey Borelly\*, University Grenoble Alpes; Celine Lutoff, University Grenoble Alpes, UMR PACTE, Grenoble, France; Elise Beck, University Grenoble Alpes, UMR PACTE, Grenoble, France, *A 3D Model for assessing the impact of preventive information.*

**11:20** Qi Jing\*, The Chinese University of Hong Kong; Hui Lin, The Chinese University of Hong Kong; Yuting Chen, The Chinese University of Hong Kong, *Virtual Yongle bluehole: a preliminary study on the measurement and modeling for the newly-found world miracle.*

## **3287. Analytics for the Anthropocene: Socioecological futures and scale II (panel) (Sponsored by Cultural and Political Ecology Specialty Group, Human Dimensions of Global Change Specialty Group)**

**Room:** Salon J, Marriott, Fourth Floor (Panel Session)  
ORGANIZER(S): Elizabeth S. Barron, University of Wisconsin - Oshkosh; Deborah Scott, University of Edinburgh  
CHAIR(S): Deborah Scott, University of Edinburgh  
Introducer: Sallie A. Marston  
Introducer: Colleen C. Hiner  
Panelists: Elizabeth S. Barron, University of Wisconsin - Oshkosh; Christine Biermann, University of Washington; Andy Stirling, SPRU - University of Sussex; Kevin St. Martin, Rutgers University; Patrick T. Hurley, Ursinus College

## **3288. Intimate Economies of Immigration Detention: Critical Reflections on the Book and Beyond (Sponsored by Political Geography Specialty Group, Geographic Perspectives on Women Specialty Group)**

**Room:** Salon K, Marriott, Fourth Floor (Panel Session)  
ORGANIZER(S): Nancy Hiemstra, Stony Brook University; Deirdre Conlon, University of Leeds / SPU  
CHAIR(S): Nancy Hiemstra, Stony Brook University  
Panelists: Mario Bruzzone, University of Wisconsin-Madison; Kate Coddington, Durham University; Lauren Martin, Durham University; Nick Gill, Exeter University; Jill Williams, Southwest Institute for Research on Women

## **3289. All Things Nuclear in a Post-Fukushima Context: Geographical Perspectives - 2 (Sponsored by Hazards, Risks, and Disasters Specialty Group, Water Resources Specialty Group, Energy and Environment Specialty Group)**

**Room:** Vineyard, Marriott, Fourth Floor (Paper Session)  
ORGANIZER(S): Misa Yasumiishi, University at Buffalo; Marissa Z. Bell, University At Buffalo; Daisaku Yamamoto, Colgate University  
CHAIR(S): Marissa Z. Bell, University At Buffalo  
**10:00** Takehito Noda\*, Ritsumeikan University, *Why did farmers who desired early restart farming reject the policy to decontaminate nuclear polluted farmland? A case study of Kawauchi Village, Fukushima.*  
**10:15** Bien Xuan Do\*, Department of Geography, Graduate School of Letters, Hiroshima University, Japan, *Factors that Influence Migration Location Choices in the Fukushima Nuclear Accident Displacement.*  
**10:30** Aleksandr Sklyar, PhD Candidate, Sociocultural

Anthropology\*, University of Michigan, *Post-Fukushima Materiality and Socially Permeable Homes.*

**10:45** David W. Edgington, Professor\*, University Of British Columbia, *The Road Back: Arrangements for Recovery of Population and Jobs in the Futaba District of Fukushima Prefecture.*

**11:00** Mitsuo Yamakawa\*, Professor, Faculty of Economics, Teikyo University, *great east japan earthquake/ nuclear disaster and fukushima urban area master plan.*  
Discussant(s): Misa Yasumiishi, University at Buffalo

## **3290. Urban Economies and the Ordinary Life B: Economy of Cities II Yarmouth, Marriott, Fourth Floor (Paper Session)**

ORGANIZER(S): John Miron, University of Toronto  
CHAIR(S): John Miron, University of Toronto  
**10:00** Cédric Brunelle\*, Université Du Quebec - INRS; Benjamin Duquet, Université du Quebec - INRS, *Employment structure at the intermetropolitan scale: edgeless cities, functional polycentrism, and ruptures in the Montreal-Quebec corridor, 2011..*  
**10:20** Ramiro Canelos-Salazar, Universidad Nacional de Ecuador; Montserrat Pallares-Barbera\*, Universitat Autònoma de Barcelona; Ana Vera, Universitat Autònoma de Barcelona, *Structural gaps in a country. The socio-economic development of cities in Ecuador.*  
**10:40** Timothy F. Leslie, PhD\*, George Mason University, *The Geography of Trends in Space shown through Unemployment.*  
**11:00** Jorge Eduardo Perez Perez\*, Brown University, *City Minimum Wages, Commuting and Employment.*  
**11:20** John Miron\*, University of Toronto, *An efficient urban economy: the Ripper-Varaiya model.*

## **3291. Is another smart city possible? Digital citizenship and the urban commons in a digital age (2/3)**

**Room:** Nantucket, Marriott, Fourth Floor (Paper Session)  
ORGANIZER(S): Ayona Datta, King's College London; Julian Agyeman, Tufts University; Duncan McLaren, Lancaster Environment Centre  
CHAIR(S): Rob Kitchen, National University Of Ireland Maynooth  
**10:00** Gabriele Schliwa\*, The University of Manchester, *Designing urban citizenship? The politics of the urban prototype as creative commons.*  
**10:20** Ayona Datta\*, King's College London, *Where is the smart citizen? Postcolonial urbanism and digital citizenship in India's urban age.*  
**10:40** Emma Slager\*, University of Washington, *The infrastructure of digital justice: mesh networking in Detroit, MI.*  
**11:00** Anne E. Mosher, PhD\*, Syracuse University, *Citizen Geographies, Social Media Nostalgia, and Crowdsourced Urbanities.*  
**11:20** Gillian Cope\*, University of Bristol, *Learning for citizen participation in smart city planning.*

## **3292. PREM: The Contours of Pacification and Public Safety (Sponsored by Political Geography Specialty Group, Socialist and Critical Geography Specialty Group)**

**Room:** Provincetown, Marriott, Fourth Floor (Paper Session)  
ORGANIZER(S): Wesley Llewellyn Attewell, The University of Toronto; Stuart Schrader, Harvard University; Richard Nisa, Fairleigh Dickinson University  
CHAIR(S): Lisa Bhungalia, University of Pittsburgh  
Panelists: Wesley Llewellyn Attewell, The University of Toronto; Stuart Schrader, Harvard University; Richard Nisa, Fairleigh Dickinson University; Tia Dafnos, University of New Brunswick; A. Naomi Naomi Paik, University of Illinois, Urbana-Champaign; Monica Kim, New York University

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- 3293. Geographies of extinction: space, biopolitics and temporality 2 (Sponsored by Political Geography Specialty Group, Animal Geography Specialty Group)**  
**Room:** Orleans, Marriott, Fourth Floor (Paper Session)  
 ORGANIZER(S): Ian Klink; Maan Barua, University of Oxford  
 CHAIR(S): Maan Barua, University of Oxford  
 10:00 Megan Taylor Hicks, Doctoral Candidate\*, City University of New York, *Multispecies Biopolitics and the Engendering of Extinction in Iceland*.  
 10:20 Maan Barua\*, University of Oxford, *The troubled histories of extinction in/against the Anthropocene*.  
 Discussant(s): Susan Ruddick, University of Toronto
- 3294. Geographies of Migrant and Ethnic Minority Political Participation and Mobilisation - Session 2 (Sponsored by Political Geography Specialty Group, Ethnic Geography Specialty Group)**  
**Room:** Hyannis, Marriott, Fourth Floor (Paper Session)  
 ORGANIZER(S): Robin Finlay, Newcastle University  
 CHAIR(S): Madeleine Colette Thompson, Newcastle University  
 10:00 Kuba Jablonowski\*, University of Exeter, *Migrant Workers, Trade Unions, And Industrial Citizenship In Britain*.  
 10:20 Romain Filhol\*, Université Paris Est, *"The Movement of Migrants and Refugees in Caserta: an original co-constructed experiment of migrant workers mobilization in Southern Italy"*.  
 10:40 Caterina Mazzilli\*, University of Sussex, *When migrants meet the Council. Strategies of migrants' and ethnic minorities' political participation in Brighton and Bologna*.  
 11:00 Hyunji Cho\*, University College London, *Immigrant Groups in Participatory Planning: Social Capital for Transforming or Reinforcing?*.  
 Discussant(s): Robin Finlay, Newcastle University
- 3295. The struggle of women and sexual and gender minorities for their share of public space (Sponsored by Geographic Perspectives on Women Specialty Group)**  
**Room:** Falmouth, Marriott, Fourth Floor (Paper Session)  
 ORGANIZER(S): Sara Maxwell, University of North Carolina  
 CHAIR(S): Sara Maxwell, University of North Carolina  
 10:00 Preetika Sharma, Doctoral Candidate\*, IISER Mohali, *Breaking out of the plan: Exploring alternative sexualities and spaces in Lal Dora areas in India..*  
 10:20 Melissa Cote-Douyon\*, Institut National de la Recherche Scientifique, *Young women's use of public spaces in Hanoi, Vietnam*.  
 10:40 L. Boyd Bellinger\*, University of Illinois At Chicago, *Protecting "our" children: How notions of gender, crime, and community play out in the transgender school bathroom debate*.  
 11:00 Sara Maxwell, M.S.\*, University of North Carolina, *Gender Trouble in the Field in Bathroom-Bill-Era North Carolina*.
- 3296. Coastal and Marine Norbert Psuty Merit Award Competition, Session 2 (Sponsored by Coastal and Marine Specialty Group)**  
**Room:** Maine, Marriott, Fifth Floor (Paper Session)  
 ORGANIZER(S): Heidi Lannon, Santa Fe College  
 CHAIR(S): Heidi Lannon, Santa Fe College  
 10:00 Michelle Ritchie, BA\*, Hazards and Climate Impacts Research Center, Binghamton University; Tim Frazier, PhD, Georgetown University; Harley Johansen, PhD, University of Idaho, *Assessing Adaptation to Climate Change in Rural High Latitude Regions*.  
 10:20 Kayla Geier\*, Missouri State University; Robert Pavlowsky, PhD, Missouri State University, *Beach Form, Change, and Mangrove Interactions Along Galleon Fish Sanctuary, South Coast Jamaica*.  
 10:40 Jory Fleming, University of South Carolina & NOAA Office for Coastal Management; Nicholas Schmidt, NOAA Office for Coastal Management; Lori Cary-Kothera, NOAA Office for Coastal Management, *Employing GIS and Geovisualizations to Explore Socio-Economic Dimensions and Policy Responses to Sea Level Rise*.
- 3297. Geospatial Intelligence and environmental security in extreme weather events (Sponsored by Geographic Information Science and Systems Specialty Group, Remote Sensing Specialty Group, Hazards, Risks, and Disasters Specialty Group)**  
**Room:** Massachusetts, Marriott, Fifth Floor (Panel Session)  
 ORGANIZER(S): Camelia M. Kantor, Claflin University; Cuizhen Wang, University of South Carolina  
 CHAIR(S): Camelia M. Kantor, Claflin University  
 Panelists: Cordula Robinson, Northeastern University; Tom Cova, University of Utah; Narcisa Pricope, University of North Carolina Wilmington; Cuizhen Wang, University of South Carolina; CAMELIA M. KANTOR, Claflin University
- 3298. Political ecologies of the infrastructure-mining complex: global comparisons (2) (Sponsored by Cultural and Political Ecology Specialty Group)**  
**Room:** New Hampshire, Marriott, Fifth Floor (Paper Session)  
 ORGANIZER(S): Simon P J Batterbury, Lancaster University; Anthony J. Bebbington, Clark University; Matthias Kowasch  
 CHAIR(S): Anthony J. Bebbington, Clark University  
 Introducer: Simon P J Batterbury  
 10:05 Matthias Kowasch\*, University of Graz (Austria); Simon P.J. Batterbury, Lancaster University (UK), University of Melbourne (Australia), *Mining infrastructure, local development and spatial balancing - a case study from northern New Caledonia*.  
 10:25 Saleem H. Ali, Professor\*, University of Delaware and University of Queensland, *A socio-ecological approach to GIS least-cost modelling for mining infrastructure planning: A case study from South East Sulawesi, Indonesia*.  
 10:45 David Kneas\*, University of South Carolina, *'The Hour of Mining Has Arrived': Hydro-Power, National Police, and the Imagined Infrastructures of the Ecuadorian Mining Industry*.  
 11:05 Caitlin A McElroy, Dphil\*, Oxford University, *Environmental futures and industrial legacies: The political ecology of the infrastructure-mining complex in Kenya*.
- 3299. Class, Race, Gender, Place: Critical Historical Geographies (Sponsored by Geographic Perspectives on Women Specialty Group, Historical Geography Specialty Group)**  
**Room:** Vermont, Marriott, Fifth Floor (Paper Session)  
 ORGANIZER(S): Tamar Y. Rothenberg, Bronx Community College of the City University of New York; Max Andrucki, Temple University  
 CHAIR(S): Max Andrucki, Temple University  
 10:00 Tamar Y. Rothenberg\*, Bronx Community College of the City University of New York, *"I am not a 'neutral' American:" Class, Francophilia, and the mobilization of American women organizing for French relief, 1914-1917*.  
 10:20 Patrick Vitale\*, New York University, *The old military urbanism: class war and the growth of the industrial city*.  
 10:40 Melina A Patterson\*, University of Mary Washington, *Race and Making Public Space in Jim Crow-Era Richmond, VA*.  
 11:00 Max Andrucki, PhD\*, Temple University; Jen Dickinson, University of Winchester, *Settler Women's Politics and the Crisis of White Social Reproduction in Late Colonial Kenya*.  
 Discussant(s): Karen M. Morin, Bucknell University



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## 3301. Urban Geography Specialty Group Business Meeting (Sponsored by Urban Geography Specialty Group)

Room: Room 101, Hynes, Plaza Level (Meeting Session)

## 3304. Cultural Geography Specialty Group Business Meeting (Sponsored by Cultural Geography Specialty Group)

Room: Room 104, Hynes, Plaza Level (Meeting Session)

## 3307. Cartography Specialty Group Business Meeting (Sponsored by Cartography Specialty Group)

Room: Room 108, Hynes, Plaza Level (Meeting Session)

## 3310. Eurasia Specialty Group Business Meeting (Eurasian Specialty Group)

Room: Room 111, Hynes, Plaza Level (Meeting Session)

## 3312. Geographic Information Science and Systems Specialty Group Business Meeting (Sponsored by Geographic Information Science and Systems Specialty Group)

Room: Room 201, Hynes, Second Level (Meeting Session)

## 3313. Transportation Geography Specialty Group Business Meeting (Sponsored by Transportation Geography Specialty Group)

Room: Room 202, Hynes, Second Level (Meeting Session)

## 3325. Population Geography Specialty Group Business Meeting (Sponsored by Population Specialty Group)

Room: Room 305, Hynes, Third Level (Meeting Session)

## 3327. Community College Affinity Group Business Meeting (Sponsored by Community College Affinity Group)

Room: Room 307, Hynes, Third Level (Meeting Session)

## 3328. Rural Geography Specialty Group Business Meeting (Sponsored by Rural Geography Specialty Group)

Room: Room 308, Hynes, Third Level (Meeting Session)

## 3329. Polar Geography Specialty Group Business Meeting (Sponsored by Polar Geography Specialty Group)

Room: Room 309, Hynes, Third Level (Meeting Session)

## 3332. Sarah Bednarz' Past President's Address: "Locating Geography Education" and AAG Presidential Achievement Award Presentation- Plenary Session

Room: Room 312, Hynes, Third Level (Plenary Session)

Organizer: American Association of Geographers

Introduction: **Glen M. MacDonald**, University of California -  
Los Angeles

Speaker: **Sarah Witham Bednarz**, Texas A&M University

AAG Past President Sarah Witham Bednarz will explore the evolving role, nature, and relevance of geography education as viewed by former presidents of the AAG from 1910 to the present. AAG presidential addresses have, at times, commented directly on education issues; at other times the topic has been avoided, if not ignored. What changes have occurred over time in how geography education is perceived and valued? What persistent educational concerns has the discipline wrestled with? How has the discipline, represented by its leaders, addressed broader social, cultural, and political factors that affect the production of new geographic knowledge and the reproduction of geographers?

Bednarz will also confer the AAG Presidential Achievement Award to Roger Downs, Professor of Geography at Pennsylvania State University, after her Past President's Address.

## 3333. Military Geography Specialty Group Business Meeting (Sponsored by Military Geography Specialty Group)

Room: Room 313, Hynes, Third Level (Meeting Session)

## 3339. History of Geography Specialty Group Business Meeting (Sponsored by History of Geography Specialty Group)

Room: Independence West, Sheraton, Second Floor (Meeting Session)

## 3342. Economic Geography Specialty Group Business Meeting (Sponsored by Economic Geography Specialty Group)

Room: Back Bay Ballroom A, Sheraton, Second Floor (Meeting Session)

## 3345. Mountain Geography Specialty Group Business Meeting (Sponsored by Mountain Geography Specialty Group)

Room: Constitution B, Sheraton, Second Floor (Meeting Session)

## 3349. European Geography Specialty Group Business Meeting (Sponsored by European Specialty Group)

Room: Beacon E, Sheraton, Third Floor (Meeting Session)

## 3357. Animal Geography Specialty Group Business Meeting (Sponsored by Animal Geography Specialty Group)

Room: Gardner A, Sheraton, Third Floor (Meeting Session)



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- 3361. China Specialty Group Business Meeting (Sponsored by China Specialty Group)**  
*Room: Jefferson, Sheraton, Third Floor (Meeting Session)*
- 3363. Geographic Perspective on Women Specialty Group Business Meeting (Sponsored by Geographic Perspectives on Women Specialty Group)**  
*Room: Commonwealth, Sheraton, Third Floor (Meeting Session)*
- 3364. Water Resources Specialty Group Business Meeting (Sponsored by Water Resources Specialty Group)**  
*Room: Boylston, Marriott, First Floor (Meeting Session)*
- 3368. Disability Specialty Group Business Meeting (Sponsored by Disability Specialty Group)**  
*Room: St. Botolph, Marriott, Second Floor (Meeting Session)*
- 3369. Regional Development and Planning Specialty Group Business Meeting (Sponsored by Regional Development and Planning Specialty Group)**  
*Room: Regis, Marriott, Third Floor (Meeting Session)*
- 3374. Health and Medical Geography Specialty Group Business Meeting (Sponsored by Health and Medical Geography Specialty Group)**  
*Room: Simmons, Marriott, Third Floor (Meeting Session)*
- 3379. Business Geography Specialty Group Business Meeting (Sponsored by Business Geography Specialty Group)**  
*Room: Arlington, Marriott, Third Floor (Meeting Session)*
- 3381. Political Geography Specialty Group Business Meeting (Sponsored by Political Geography Specialty Group)**  
*Room: Clarendon, Marriott, Third Floor (Meeting Session)*
- 3382. Sexuality and Space Specialty Group Business Meeting (Sponsored by Sexuality and Space Specialty Group)**  
*Room: Dartmouth, Marriott, Third Floor (Meeting Session)*
- 3383. Qualitative Research Specialty Group Business Meeting (Sponsored by Qualitative Research Specialty Group)**  
*Room: Exeter, Marriott, Third Floor (Meeting Session)*
- 3384. Biogeography Specialty Group Business Meeting (Sponsored by Biogeography Specialty Group)**  
*Room: Fairfield, Marriott, Third Floor (Meeting Session)*
- 3388. Geographies of Food and Agriculture Specialty Group Business Meeting (Sponsored by Geographies of Food and Agriculture Specialty Group)**  
*Room: Salon K, Marriott, Fourth Floor (Meeting Session)*

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Poster Sessions for Friday are located on pages 242-251.

## 3401. Mapping Flexibly 2: Design + Critical Cartography (Sponsored by Cartography Specialty Group)

**Room:** Room 101, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): Eric M. Huntley, University of Kentucky  
 CHAIR(S): Eric M. Huntley, University of Kentucky  
 1:20 Maria Arquero De Alarcon\*, University of Michigan; McLain Clutter, Associate Professor, University of Michigan, *Informal / Irregular / Illegal: The Production Of Urban Land In The Mexico City Metropolitan Area.*  
 1:40 Grga Basic\*, Columbia University, *Mapping Urban Damage.*  
 Introducer: Matthew W. Wilson  
 2:20 William Rankin\*, Yale University, *Escaping the Jurisdictional Trap: Mapping American Slavery.*  
 Discussant(s): Kevin Grove, Florida International University

## 3402. Organizing Against the End of the World I: Organizing in Late Industrialism (Sponsored by Socialist and Critical Geography Specialty Group)

**Room:** Room 102, Hynes, Plaza Level (Panel Session)  
 ORGANIZER(S): Harlan Morehouse, University of Vermont  
 CHAIR(S): Harlan Morehouse, University of Vermont  
 Panelists: Harlan Morehouse, University of Vermont; Elizabeth R. Johnson, Hobart & William Smith Colleges; Nicholas Beuret, Hobart and William Smith Colleges; Ingrid L. Nelson, University of Vermont

## 3403. Human Rights & Climate Change: A High-Level Discussion (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme)

**Room:** Room 103, Hynes, Plaza Level (Panel Session)  
 ORGANIZER(S): Mainstreaming Human Rights; John Wertman, American Association of Geographers  
 CHAIR(S): John Wertman, American Association of Geographers  
 Panelists: Colette Pichon Battle, US Human Rights Network; Colin Kelley, International Research Institute for Climate and Society; Balakrishnan Rajagopal; Roni Neff, Johns Hopkins Bloomberg School of Public Health

## 3404. Perceiving Urban Nature - perceiving the good, bad, and ugly in your neighborhood (Sponsored by Environmental Perception and Behavioral Geography Specialty Group)

**Room:** Room 104, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): Bethany Cutts, North Carolina State University  
 CHAIR(S): Erin Lilli  
 1:20 Helen Jane Corney\*, RMIT University, *I Can Hear the Birds: In situ Audio Recordings to investigate Public Perceptions of Amenity of Urban River Corridors with Different Biodiversity Levels.*  
 1:40 Pengyu Zhu\*, Urban Greenbelt as a Linear Urban Park and a Transportation Corridor.  
 2:00 Karen Thomas-Brown, PhD\*, University of Michigan-Dearborn, *Sustainable Communities Sustainable Lives: Stories from Osborn Detroit.*  
 2:20 Richard Lenz\*, Creek Run LLC Environmental Engineering, *Leaking Underground Storage Tanks in Indiana.*

## 3405. State-building through Nature-making: Eco-development and knowledge production in the Global South (Sponsored by Cultural and Political Ecology Specialty Group)

**Room:** Room 105, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): Elsie Lewison, University of Toronto; Elizabeth Lord, University of Toronto  
 CHAIR(S): Elsie Lewison, University of Toronto  
 1:20 Britt Crow-Miller, PhD\*, ASU, *Performing Sovereignty through Nature in the South China Sea.*  
 1:40 Jennifer Silver\*, The University of Guelph; Lisa Campbell,

Duke University Marine Lab, *Tapping into the blue economy: ocean finance and development projects after Rio+20.*

2:00 Stefan Rzedzian\*, Newcastle University, *Promoting and Defending the Rights of Nature in Ecuador: Environmental Activist Organisations and their Resistance to Extractivism..*

2:20 Meg Boyle\*, Pennsylvania State University, *Implications of Self-Differentiation for South-South Climate Cooperation.*

2:40 Elizabeth Lord\*, University of Toronto, *Politics of Environmental Research in Contemporary China.*

## 3406. Trump on Immigration Enforcement: the First 100 Days (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme, Political Geography Specialty Group, Late-Breaking News Special Session Track, Ethics, Justice, and Human Rights Specialty Group, Sexuality and Space Specialty Group)

**Room:** Room 107, Hynes, Plaza Level (Panel Session)  
 ORGANIZER(S): Austin Kocher, The Ohio State University, Department of Geography  
 CHAIR(S): Austin Kocher, The Ohio State University, Department of Geography  
 Discussant(s): Deirdre Conlon, University of Leeds / SPU  
 Panelists: Patricia Ehrkamp, University of Kentucky; Jeremy Slack, University of Texas - El Paso; Austin Kocher, The Ohio State University, Department of Geography; Geoffrey Boyce, University of Arizona; Nancy Hiemstra, Stony Brook University

## 3407. SAM student paper competition I (Sponsored by Spatial Analysis and Modeling Specialty Group)

**Room:** Room 108, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): Eun-hye Enki Yoo, University At Buffalo (SUNY)  
 CHAIR(S): Eun-hye Enki Yoo, University At Buffalo (SUNY)  
 1:20 Young-Long Kim\*, Clark University, *Before Sunrise or Before Midnight?: Tackling Spatiotemporally Uncertain Contextual Effects in Measuring Night-Time Urban Vitality.*  
 1:40 Kangjae Lee\*, Informatics, University of Illinois at Urbana Champaign; Joshua Peschel, Dept. of Civil and Environmental Engineering, University of Illinois at Urbana Champaign; Mei-Po Kwan, Dept. of Geography and Geographic Information Science, University of Illinois at Urbana Champaign, *Towards Automatic Classification of Transportation Modes and Physical Activity using Publicly Released GPS and Accelerometer Data.*  
 2:00 David S. Lamb\*, University of South Florida, *Spatiotemporal Clustering of Motorcycle Crashes on a Network Using Agglomerative Hierarchical Clustering.*  
 2:20 Wangshu Mu\*, University of Arizona; Daoqin Tong, University of Arizona, *A Spatial-Knowledge Enhanced Heuristic for the p-Median Problem.*

## 3408. Celebrating Susan Christopherson: A Panel Honoring her Life, Work, and Leadership in Economic Geography (Sponsored by Economic Geography Specialty Group)

**Room:** Room 109, Hynes, Plaza Level (Panel Session)  
 ORGANIZER(S): Jennifer Clark, Georgia Institute of Technology  
 CHAIR(S): Jennifer Clark, Georgia Institute of Technology

## 3409. Symposium on Human Dynamics in Smart and Connected Communities: Understanding Neighborhood Dynamics 3: Lived Experience & Efficacy in Neighborhoods (Sponsored by Urban Geography Specialty Group, Spatial Analysis and Modeling Specialty Group)

**Room:** Room 110, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): Joseph Danko, University of Connecticut; Elizabeth Delmelle, University of North Carolina at

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Charlotte; Kevin Kane, University of California, Irvine  
 CHAIR(S): Kevin Kane, University of California, Irvine  
 1:20 Louisa Vogiazides, PhD Candidate\*, Stockholm University,  
*Migrants' residential trajectories in Swedish metropolitan cities.*

1:40 William Clark\*, University of California - Los Angeles;  
 William Lisowski, Independent Scholar, *Does Neighborhood Cohesion Matter for Quality of Life?.*

2:00 Andria L Blackwood, MA\*, Kent State University,  
*Examining the Effects of Community Development Block Grants (CDBGs) on Neighborhood Residents' Levels of Self-Efficacy in Cleveland Ohio.*

2:20 Michael D. Webb\*, University of North Carolina at Chapel Hill; William M Rohe, University of North Carolina at Chapel Hill; Kirstin P Frescoln, University of North Carolina at Chapel Hill, *Understanding Section 8 in a (housing) crash: How the Great Recession and recovery have impacted voucher holders' neighborhood outcomes.*

2:40 Sara M. Perisho Eccleston, B.A.\*, Vanderbilt University,  
*Transformative Proximity: Christian Community Development, Discourses of Belonging, and Fantasies of Redemptive Identification.*

3410. **Jan Monk Distinguished Lecture: A Crisis of Rights and Responsibility: Feminist Geopolitical Perspectives on Latin American Refugees and Forced Migrants (Sponsored by Geographic Perspectives on Women Specialty Group)**

Room: Room 111, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): Stephanie Buechler, University of Arizona - Geography & Development; Pamela Moss, University of Victoria

CHAIR(S): Pamela Moss, University of Victoria  
 1:20 Rebecca Maria Torres\*, University of Texas at Austin,  
*A Crisis of Rights and Responsibility: Feminist Geopolitical Perspectives on Latin American Refugees and Forced Migrants.*

Introducer: Stephanie Buechler

Introducer: Pamela Moss

3411. **Contested Commodities II: Contestation and Controversy (Sponsored by Cultural and Political Ecology Specialty Group, Geographic Perspectives on Women Specialty Group, Economic Geography Specialty Group)**

Room: Room 200, Hynes, Second Level (Paper Session)  
 ORGANIZER(S): Emily Rosenman, University of British Columbia - Vancouver, BC; Rosemary-Claire Collard, Concordia University; Caitlin Henry, University of Toronto

CHAIR(S): Dan Cohen, University of British Columbia  
 1:20 Reuben Rose-Redwood, University of Victoria; Jani Vuolteenaho, University of Turku, *Private Names for Public Places? Contesting the Commodification of Naming Rights in the Age of Austerity.*

1:40 Matthew Balentine\*, University of North Carolina - Greensboro, *A Geographic Analysis of Plasma Collection in the United States.*

2:00 Robert Wilson\*, Syracuse University, *The Age of De-commodification: Removing American Wildlife from the Market in the Progressive Era.*

2:20 Carolyn Prouse\*, University of British Columbia, *(De) commodifying reproduction: Racialized, classed, and gendered geographies of breast milk markets.*

Discussant(s): Rosemary-Claire Collard, Concordia University

3412. **Building a Graduate Community : Insights from graduate student union members (GSAG Plenary) (Sponsored by Graduate Student Affinity Group)**

Room: Room 201, Hynes, Second Level (Panel Session)  
 ORGANIZER(S): Mael Le Noc, Texas State University - San Marcos

CHAIR(S): Mael Le Noc, Texas State University - San Marcos

Panelists: Christy Thornton, Rowan University; Anna Waltham, University of Massachusetts Amherst; Sam Klug, Harvard University; Caitlin Ella Wind, New York University

3413. **Children's Geographies Journal Lecture (Sponsored by Childrens Geographies Journal, Routledge)**

Room: Room 202, Hynes, Second Level (Panel Session)  
 ORGANIZER(S): Karen Wells, Birkbeck, University of London  
 CHAIR(S): Karen Wells, Birkbeck, University of London  
 Panelists: Sarada Balagopalan, Rutgers University; Sarah De Leeuw, University of Northern British Columbia

3414. **Building Tomorrow's Workforce: Leading Employers Discuss Career Pathways to Jobs in Infrastructure, Hospitality, Tech, and Sustainability (Sponsored by AAG Careers and Professional Development Theme)**

Room: Room 203, Hynes, Second Level (Panel Session)  
 ORGANIZER(S): Mark Revell, American Association of Geographers; Drew Lehman, Drew Lehman Environment and Education  
 CHAIR(S): Drew Lehman, Drew Lehman Environment and Education  
 Introducer: Drew Lehman

3415. **Preparing Geography Students for the 21st Century Workforce (Sponsored by AAG Careers and Professional Development Theme)**

Room: Room 204, Hynes, Second Level (Panel Session)  
 ORGANIZER(S): Niem Huynh, American Association of Geographers; Michael N. Solem, American Association of Geographers; Joseph J. Kerski, Esri  
 CHAIR(S): Niem Huynh, American Association of Geographers  
 Discussant(s): Joseph J. Kerski, Esri; Michael N. Solem, American Association of Geographers; Niem Huynh, American Association of Geographers

3416. **Social Media and the Academic Life: Strategies in student recruitment, teaching, and professionalism (Sponsored by AAG Careers and Professional Development Theme, Association of American Geographers, Communication Geography Specialty Group)**

Room: Room 205, Hynes, Second Level (Panel Session)  
 ORGANIZER(S): David L. Coronado, American Association of Geographers; Emily Fekete, Oklahoma State University  
 CHAIR(S): Julio Arguello  
 Discussant(s): Emily Fekete, Oklahoma State University  
 Panelists: Paul N. McDaniel, Kennesaw State University; Francis Koti, University of North Alabama; Seth Dixon, Rhode Island College; Alberto Giordano, Texas State University; Angela Rogers, Pennsylvania State University

3417. **Race, Place and Violence: Historical and Contemporary Issues of Memory I (Sponsored by Cultural Geography Specialty Group)**

Room: Room 206, Hynes, Second Level (Paper Session)  
 ORGANIZER(S): Joshua F. Inwood, Pennsylvania State University; Kenneth E. Foote, University of Connecticut; James A. Tyner, Kent State University  
 CHAIR(S): Aretina Rochelle Hamilton, University of Kentucky  
 1:20 Thor Ritz, PhD\*, Texas A&M University, *Mapping Marronage: Historical GIS and Anti-colonial Violence in Louisiana.*

1:40 E Arold Modlin Jr., Ph.D.\*, Norfolk State University, *Challenging Convention: Slaves' Deaths Identified as Murders in Nineteenth-Century Virginia.*

2:00 Brian John Godfrey\*, Vassar College, *Rio's African Heritage Circuit: Counter-Memory, Race, and Social Justice.*

2:20 Susanne M. Seymour\*, University Of Nottingham, *Making*



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*Reparative Historical Geographies: reconnecting and representing the global threads of cotton textile production in the Derwent Valley, Derbyshire, UK.*

- 2:40 Alexandra Giancarlo, M.A.\*, Queen's University, "Don't Call Me a Cajun!": Creoles, Race, and Representation in Louisiana's Acadiana Region.

## 3419. The complex geographies of inequality in contemporary slum tourism

- Room: Room 210, Hynes, Second Level (Paper Session)  
 ORGANIZER(S): Fabian Frenzel, University of Leicester; Tore Holst, Roskilde University; Thomas Frisch, University of Hamburg  
 CHAIR(S): Fabian Frenzel, University of Leicester  
 1:20 Thomas Apchain\*, Université Paris Descartes (CANTHEL), "Construction of Otherness and Self-criticism in Rio's favelas. From an Authentic Reality to an Hidden Truth".  
 1:40 Sarah Becklake\*, Lancaster University, *Touristic Securitisation and Complex Inequalities in the Global South: The Case of Guatemala*.  
 2:00 Tore Holst, PhD\*, Roskilde University, *Long-term slum-tourists? The commodified experience of voluntourism..*  
 2:20 Meghan Muldoon\*, University of Waterloo, "Polishing the wounds of the past" via slum tourism?.  
 Discussant(s): Thomas Frisch, University of Hamburg

## 3420. Physical Geography Poster Session I (Sponsored by Routledge)

- Posters for this session can be found on pages 245-251.  
 Room: Hall C, Hynes, Second Floor (Poster Session)  
 \*\*\* Continued into next slot, 3520

## 3421. Special Sessions on: Geographic Data Science V (Panel)

- Room: Room 301, Hynes, Third Level (Panel Session)  
 ORGANIZER(S): Alex Singleton; Daniel Arribas-Bel; Nick Malleon, University of Leeds  
 CHAIR(S): Nick Malleon, University of Leeds  
 Discussant(s): David O'Sullivan, University of California, Berkeley  
 Panelists: Seth E. Spielman, University of Colorado; Alex Singleton; Alison Heppenstall; Ran Wei, University of Utah; Luc Anselin, University of Chicago; Daniel Arribas-Bel; Mark Birkin, University of Leeds

## 3423. Hydroclimatology I (Sponsored by Climate Specialty Group)

- Room: Room 303, Hynes, Third Level (Paper Session)  
 ORGANIZER(S): Natalie Teale, Rutgers University  
 CHAIR(S): Natalie Teale, Rutgers University  
 1:20 Craig Ramseyer\*, Salisbury University; Thomas L Mote, University of Georgia; Paul W Miller, University of Georgia, *On the Role of the Saharan Air Layer in the 2015 Puerto Rico Drought*.  
 1:40 Trent Ford\*, Southern Illinois University; Justin Schoof, Southern Illinois University, *Characterizing Extreme and Oppressive Heat Waves in Illinois*.  
 2:00 Justin T Schoof\*, Department of Geography and Environmental Resources, SIU Carbondale; Trent W Ford, Department of Geography and Environmental Resources, SIU Carbondale; Sara C Pryor, Department of Earth and Atmospheric Sciences, Cornell University, *High Resolution Projections of 21st Century Eastern United States Heat Waves*.  
 2:20 Liyan Tian\*, Texas A&M University; Steven M Quiring, Department of Geography, Ohio State University, *Analysis of Spatial-Temporal Patterns of Drought in Oklahoma*.  
 2:40 Andrew Walton Ellis\*, Virginia Tech; Kevin W Murphy, Arizona State University, *Assessing the Impacts of Historic and Pre-Historic Droughts on a Key Reservoir System Serving Phoenix, Arizona, USA*.

## 3425. Population Geography and the Environment: Special Session in Honor of Clark Gray and David Lopez-Carr (Sponsored by Population Specialty Group)

- Room: Room 305, Hynes, Third Level (Panel Session)  
 ORGANIZER(S): Rachel S. Franklin, Brown University; Fernando Riosmena, University of Colorado at Boulder  
 CHAIR(S): Fernando Riosmena, University of Colorado at Boulder  
 Discussant(s): John R. Weeks, San Diego State University; Lori Hunter, University of Colorado Boulder  
 Panelists: David Lopez-Carr, UC Santa Barbara; Clark Gray, University of North Carolina at Chapel Hill

## 3427. Doing geography II: Teaching with Webmaps in the lower division classroom (Sponsored by AAG Careers and Professional Development Theme, Geography Education Specialty Group, Community College Affinity Group)

- Room: Room 307, Hynes, Third Level (Panel Session)  
 ORGANIZER(S): Sarah Goggin  
 CHAIR(S): Sarah Goggin  
 Discussant(s): Erin H. Foubert, Northern State University  
 Panelists: Melissa Hinten, University of Tennessee; Kerry Lyste, Everett Community College; Sterling Quinn, Central Washington University; Timothy LeDoux, Westfield State University

## 3428. The Call of the Wild: Writing and Walking in American Landscapes (Sponsored by Recreation, Tourism, and Sport Specialty Group, Cultural Geography Specialty Group, Communication Geography Specialty Group)

- Room: Room 308, Hynes, Third Level (Paper Session)  
 ORGANIZER(S): David McLaughlin, University of Cambridge  
 CHAIR(S): David McLaughlin, University of Cambridge  
 1:20 Dave McLaughlin\*, University of Cambridge, *Trail of Texts: Online journals and the shaping of the Appalachian Trail*.  
 1:40 Pat Farrell\*, University of Minnesota Duluth; Mary Burns Farrell, Gonzaga University, *The Art of Soil Domestication*.  
 2:00 Eleanor M. Rawling\*, University of Oxford, *'Walking into Clarity': exploring the dynamics of self and place through the work of the English poet, Ivor Gurney*.  
 2:20 Elisabeth "Lisa" Orr\*, West Virginia University, *Cemeteries and Coal Company Towns in the New River Gorge National River*.  
 2:40 John Jeffrey Martin, Ph.D.\*, Jacksonville University, *Experiential and Subjective Understanding of Landscape, Space and Place*.

## 3429. Compass Rose Session | Student Illustrated Paper Competition (Sponsored by Cartography Specialty Group)

- Room: Room 309, Hynes, Third Level (Illustrated Paper Session)  
 ORGANIZER(S): Amber J. Bosse, University of Kentucky  
 CHAIR(S): Amber J. Bosse, University of Kentucky  
 1:20 Chelsea L. Cervantes De Blois\*, University of Minnesota-TwinCities, *Soya Production within Uzbek-Kyrgyz Communities: Identifying the Inputs of Ethnic Conflict in the Field*.  
 1:25 Mohamed Mostefaoui\*, Northeastern Illinois University, *Mapping Spatiotemporal Land Sensitivity to Desertification in Biskra, Algeria*.  
 1:30 Lucas Ysidro Reyes\*, California State University Long Beach, Geography, MA, *Degradation of Rural Tibetan Livelihoods Through Green Revolution Technologies*.  
 1:35 Chung Truong\*, Clark University; John Rogan, Clark University; Robert Gilmore Pontius, Jr, Clark University; Louis Reymondin, The International Center for Tropical Agriculture (CIAT), *Improved calibration of the near real-time forest loss detection system in Vietnam using Sentinel and Landsat satellite imagery*.  
 1:40 Kristen Vincent, Department of Geography, University of Wisconsin-Madison; Heather Rosenfeld, Department



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of Geography, University of Wisconsin-Madison;  
Eric Nost, Department of Geography, University of  
Wisconsin-Madison, *Visualizing the North American  
Hazardous Waste Trade*.

Discussant(s): Cynthia Ann Brewer, Pennsylvania State  
University; Alexander M. Tait, National Geographic  
Society; Jonnell A. Robinson, Syracuse University

**3430. Emerging Scholars in Health and Medical Geography  
(Sponsored by Health and Medical Geography Specialty  
Group)**

Room: Room 310, Hynes, Third Level (Paper Session)

ORGANIZER(S): Eric M. Delmelle, University of North  
Carolina at Charlotte; Michael J. Widener, University  
of Toronto; Mei-Po Kwan, University of Illinois at  
Urbana-Champaign

CHAIR(S): Michael J. Widener, University of Toronto

**1:20** Kirsten M. M. Beyer, PhD, MPH, MS\*, Medical College  
of Wisconsin, *Fourth generation health disparities  
research: what role for geographers?*.

**1:40** Paul Mkandawire\*, *Political ecology of care-seeking for  
malaria*.

Discussant(s): Eric M. Delmelle, University of North Carolina at  
Charlotte; Michael J. Widener, University of Toronto;  
Mei-Po Kwan, University of Illinois at Urbana-  
Champaign

**3431. The Pedagogy of Karl W. Butzer: From Bonn to  
Madison, Chicago, Zurich, and Austin. (Sponsored by  
Paleoenvironmental Change Specialty Group, Geographies of  
Bread and Water in the 21st Century Featured Theme)**

Room: Room 311, Hynes, Third Level (Panel Session)

ORGANIZER(S): Samantha Marie Krause, University of Texas  
- Austin; M. Anwar Sounny-Slitine, Southwestern  
University

CHAIR(S): Samantha Marie Krause, University of Texas - Austin

Discussant(s): Gregory W. Knapp, University Of Texas - Austin

Panelists: Samantha Marie Krause, University of Texas - Austin;  
Charles Frederick; Christine Drennon, Trinity  
University; Mike Blum, University of Kansas; Carlos  
E. Cordova, Oklahoma State University; M. Anwar  
Sounny-Slitine, Southwestern University; Murray  
Justin WILKINSON, Texas State University - San  
Marcos

**3433. Historical and Contemporary Topics in Military Geography I  
(Sponsored by Military Geography Specialty Group)**

Room: Room 313, Hynes, Third Level (Paper Session)

ORGANIZER(S): Andrew Lohman

CHAIR(S): Andrew Lohman

**1:20** Jon C. Malinowski\*, U.S. Military Academy, *Moving  
Monuments: Collective Memory and Memorialization  
at West Point*.

**1:40** Vincent Monier\*, Laboratoire Lab'Urba, *Using history to  
understand urban planning and territorial development  
of naval cityports*.

**2:00** Gordon Andrew Cromley, M.A.\*, Kent State University,  
*Journalistic Cartography: Deconstructing an uneven  
narrative of the French Indochina War*.

**2:20** Andrew Lohman, PhD\*, West Point, *Airborne Assault on  
Corregidor: A study in Weather, Terrain, and Cultural  
Landscapes*.

**3438. Advances in Analyzing Contextual Effects on Behavior,  
Practice and Experience III (Sponsored by Health and  
Medical Geography Specialty Group, Uncertainty and  
Context in Geography and GIScience Featured Theme)**

Room: Independence East, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Mei-Po Kwan, University of Illinois at Urbana-  
Champaign; Tim Schwanen, University of Oxford

CHAIR(S): Xiang Chen, Arkansas Tech University

**1:20** Xiang Chen\*, Arkansas Tech University, *"Take the Edge*

*Off": A Hybrid Geographic Food Access Measure*.

**1:40** Camille Perchoux, Dr.\*, Luxembourg Institute of Socio-  
Economic Research; Olivier Klein, Dr., Luxembourg  
Institute of Socio-Economic Research; Philippe  
Gerber, Dr., Luxembourg Institute of Socio-Economic  
Research; Guillermo Gutiérrez, Msc, Luxembourg  
Institute of Socio-Economic Research; Sylvain Klein,  
Msc, Luxembourg Institute of Socio-Economic  
Research; Basile Chaix, Pr., INSERM, Université  
Pierre et Marie Curie, Paris 06; Yan Kestens, Dr.,  
CRCHUM, Université de Montréal, *Assessing  
neighbourhoods' walkability with a GIS based index  
and a mobility survey. Application to Luxembourg*.

**2:00** Orit Rotem-Mindali\*, Bar Ilan University, *Visualizing  
accessibility disadvantages in the city*.

**2:20** Chenhao Fu\*, School of Geography and Planning, Sun Yat-  
Sen University; Suhong Zhou, School of Geography  
and Planning, Sun Yat-Sen University; Xiaopei Yan,  
School of Geography and Planning, Sun Yat-Sen  
University, *Research on characteristics and influencing  
factors of shopping activity-chain at uncertain context*.

**2:40** Paulo Arevalo, PhD Student\*, Boston University,  
Department of Earth and Environment; Pontus  
Olofsson, Associate Research Professor, Boston  
University, Department of Earth and Environment,  
*Estimating land cover change areas and their  
uncertainty in the Colombian Amazon using time series  
analysis*.

**3439. Troubling the geographies of illusion and occlusion through  
spaces of industry and extraction (Sponsored by Indigenous  
Peoples Specialty Group)**

Room: Independence West, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Tara Irene Cater, Carleton University; Neil J.  
Nunn

CHAIR(S): Neil J. Nunn

Introducer: Neil J. Nunn

**1:30** Tara Irene Cater, PhD candidate\*, Carleton University,  
*'Making it Work.' Fly-in-Fly-out (FIFO) family support  
programs and anonymous care in the Kivalliq region,  
Nunavut*.

**1:50** Hannah Fair\*, University College London, *Coal is Not  
Good for Humanity: Unveiling The Violence Of  
Extraction In Newcastle, New South Wales*.

**2:10** Melina Ey\*, The University of Newcastle, *Natural Resource  
Extraction and the Undermining of Relationships to  
Place in the NSW Hunter Valley, Australia*.

**2:30** Alexander Dunlap, Doctoral Candidate\*, Vrije Universiteit  
Amsterdam, *Counterinsurgency for Wind Energy: The  
Bii Hioxo Wind Park in Juchitán, Mexico*.

Discussant(s): Neil J. Nunn

**3440. Health and place across the life course 1 (Sponsored by  
Uncertainty and Context in Geography and GIScience  
Featured Theme)**

Room: Liberty B, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Niamh Shortt, University of Edinburgh

CHAIR(S): Niamh Shortt, University of Edinburgh

**1:20** Gareth Griffith\*, University of Bristol, *How do they cope?  
The differential impact of the Economic Recession on  
the Mental Health of the UK*.

**1:40** Elizabeth Brooks, PhD, School of Interdisciplinary Studies,  
Glasgow University, *The impact of place on the course  
and outcomes of cognitive aging*.

**2:00** Mark Cherrie, Dr.\*, Centre for Research on Environment,  
Society and Health, School of GeoSciences, University  
of Edinburgh; Catharine Ward Thompson, Prof.,  
OPENspace Research Centre, Edinburgh College of  
Art, University of Edinburgh; Ian Deary, Prof., Centre  
for Cognitive Ageing and Cognitive Epidemiology,  
School of Philosophy, Psychology and Language  
Sciences, University of Edinburgh; Niamh Shortt,

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Dr., Centre for Research on Environment, Society and Health, School of GeoSciences, University of Edinburgh; Jamie Pearce, Prof., Centre for Research on Environment, Society and Health, School of GeoSciences, University of Edinburgh, *Neighbourhood parks and cognitive ageing: a retrospective life course analysis in the Lothian Birth Cohort 1936*.

- 2:20** Niall Cunningham\*, Durham University; Sarah Curtis, Durham University; Mark Cherrie, Edinburgh University; Jamie Pearce, Edinburgh University; Chris Dibben, Edinburgh University; Clare Bambra, Durham University, *Measuring change in local labour markets over the course of a recession and their relation to health: An example using the Scottish Longitudinal Study and data for local areas in Scotland*.

- 2:40** Tom Clemens\*, University of Edinburgh; Chris Dibben, University of Edinburgh; Jamie Pearce, University of Edinburgh; Niamh Shortt, University of Edinburgh, *The effect of tobacco retail outlet density and local smoking norms on maternal smoking during pregnancy: a conditional fixed effects analysis*.

**3441. Big data and data privacy (Sponsored by Uncertainty and Context in Geography and GIScience Featured Theme)**

*Room:* Liberty C, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Uncertainty and Context Theme  
CHAIR(S): Xun Shi, Dartmouth College

- 1:20** Guy Lansley\*, UCL; Wen Li, UCL; Paul A Longley, UCL, *Data Linkage and Uncertainty in Big Consumer Datasets*.

- 1:40** Huan Li, Zhejiang University; Mei-Po Kwan, University of Illinois at Urbana-Champaign, *Geoprivacy and geomasking: what we know and what do not know?*.

- 2:00** Marion Ménard\*, Université de Cergy Pontoise, *The future of infrastructures, between quality of geospatial data and uncertainty: how safe can be for the massive geo-referencing of a network?*.

- 2:20** Rob Feick\*, University of Waterloo; Colin Robertson, Wilfrid Laurier University, *The spatial disconnect problem*.

- 2:40** Xun Shi\*, Dartmouth College, *An Improved Adaptive Geomasking Method for Safe Dissemination of Individual-level Patient's Location Data*.

**3442. Economic Geography XII - Evolution, Path-Creation, and the Quest for Smart Development Opportunities (Sponsored by Economic Geography Specialty Group)**

*Room:* Back Bay Ballroom A, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Dieter Franz Kogler, University College Dublin; Peter Kedron, Oklahoma State University; Jennifer Clark, Georgia Institute of Technology

CHAIR(S): Pierre-Alexandre Baland, Utrecht University

- 1:20** Canfei He\*, Peking University, *Regional Industrial Evolution in China: The Role of Regional Institutions, Industrial Attributes and Agencies*.

- 1:40** Pierre-Alex Baland, Utrecht University; David Rigby, UCLA; Ron Boschma\*, Utrecht University, *Relatedness, knowledge complexity and technological opportunities of regions*.

- 2:00** Hanna Martin, Lund University; Roman Martin\*, University of Gothenburg; Elena Zukauskaitė, Lund University, *The Role of Demand in New Regional Industrial Path Development - Swedish Food Industries in Transformation*.

- 2:20** Navroop Sahdev\*, Harvard University, University of Paris 13 and University of Turin, *Do Knowledge Externalities lead to growth in Economic Complexity? Empirical evidence from Colombia..*

- 2:40** Cristian Jara-Figueroa, The MIT Media Lab; Mary Kaltenberg, UNU-MERIT; Dominik Hartmann\*, Fraunhofer Center for International Management and Knowledge Economy, *Predicting Regional Industrial Development and Skills Demand in Brazil*.

**3444. Critical Geographies of Energy Infrastructure III: Contested Energy Landscapes (Sponsored by Cultural and Political Ecology Specialty Group, Energy and Environment Specialty Group)**

*Room:* Constitution A, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Anthony Levenda, Arizona State University; Ingrid Behrsin; Laura Tozer, University of Toronto

CHAIR(S): Sarah E. Knuth, University of Michigan

- 1:20** Kees Lokman\*, University of British Columbia, *Critical Geographies of Energy Infrastructure: Power, Politics, and Possibilities*.

- 1:40** Mumtaz Derya Tarhan\*, University of Toronto, *Energy Democracy: A Critical Technology Studies Perspective*.

- 2:00** Brent Sturlaugson, AIA, NCARB\*, University of Kentucky, *'What You Don't See Matters': Supply Chain Capitalism and the Architecture of Production*.

- 2:20** Kirby Calvert\*, University of Guelph; Kirsten Greer, Assistant Professor, Nipissing University, *(Re-)Reading energy landscapes as recursive cartographies: a human-environment history of energy transitions in Bermuda*.

Discussant(s): Matt Huber, Syracuse University

**3445. Sustainable Territories-I? National Spatial Planning and Zonation for Environmental Governance in Latin America and China (Sponsored by Political Geography Specialty Group, Cultural and Political Ecology Specialty Group, Development Geographies Specialty Group)**

*Room:* Constitution B, Sheraton, Second Floor (Panel Session)

ORGANIZER(S): Karl S. Zimmerer, Pennsylvania State University; Jia-Ching Chen, University of California

CHAIR(S): Jia-Ching Chen, University of California

Panelists: Bridget Guarasci, Franklin and Marshall College; Jia-Ching Chen, University of California; Karl S. Zimmerer, Pennsylvania State University

**3448. Television, Film, and Literature: Media and Communication Geography Session V (Sponsored by Communication Geography Specialty Group)**

*Room:* Beacon D, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Emily Fekete, Oklahoma State University

CHAIR(S): Eduardo Antonio Perez Torres, Universidad Nacional Autonoma De Mexico

- 1:20** Clayton Rosati\*, Bowling Green State University, *Baltimore after The Wire: Gentrification and the Pleasures of Urban Crisis*.

- 1:40** Travis James Birr\*, St. Cloud State University, Department of Geography and Planning, School of Public Affairs, *Minnesota Identity Through Film*.

- 2:00** Manuel Molla\*, Universidad Autonoma De Madrid, *The Bountiful Land: Literature and Geographical Landscape*.

- 2:20** Jacquelyn Southern\*, Trinity College, *The Pensioner's Holiday: Geographic Imagination In English Mystery Novels*.

- 2:40** Eduardo Antonio Perez Torres\*, Universidad Nacional Autonoma De Mexico, *The Magdalena river in "Love in the times of cholera"*.

**3449. Critical urban theory in the 'urban age': Voices from another planet I (Sponsored by Geographic Perspectives on Women Specialty Group, Urban Geography Specialty Group, Sexuality and Space Specialty Group)**

*Room:* Beacon E, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Natalie Oswin, McGill University; Geraldine J. Pratt, University Of British Columbia

CHAIR(S): Natalie Oswin, McGill University

- 1:20** Cindi Katz\*, CUNY Graduate Center, *Splanetary Urbanism*.

- 1:40** Erin Collins\*, American University, *Urban Chronopolitics in Phnom Penh*.

- 2:00** Farhang Rouhani\*, University of Mary Washington, *Queer*

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*diasporas, prefiguration, and lived urban space.*

- 2:20** Cian O'Callaghan\*, Department of Geography, Trinity College Dublin; Cesare Di Felicianantonio, Department of Geography, Trinity College Dublin, *An urban outside? Subjectivity and the situated (re)production of urbanization through contested vacancy, housing and homelessness in post-crisis Dublin.*

**3450. Spatial Inequality, Justice and Policy II: China and India (Sponsored by China Specialty Group, Regional Development and Planning Specialty Group, Asian Geography Specialty Group)**

*Room:* Beacon F, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Yehua Dennis Wei, University of Utah

CHAIR(S): Javier Revilla Diez, University of Cologne

- 1:20** Yehua Dennis Wei\*, University of Utah, *Spatial Inequality in China and Asia.*

- 1:40** Felix Haifeng Liao\*, University of Idaho; Yehua Wei, University of Utah, *Regional Inequality in China: Trends, Scales and Mechanisms.*

- 2:00** Yanning Wei, PhD\*, Grand Valley State University, *Spatial Inequality as State Development Strategy and Poverty Reduction in China.*

- 2:20** Sudhir K. Thakur\*, California State University Sacramento, *The Economic Geography of Public Debt in India: A Spatial Analytic Approach.*

- 2:40** Corey Johnson, Associate Professor; Purva Sharma\*, University of North Carolina, Greensboro, *A Study on Spatial Variation in the Urbanization of India.*

**3453. Capitalism, Bodies, and Space 3: Berlant & Beyond--A Panel Discussion**

*Room:* Dalton A, Sheraton, Third Floor (Panel Session)

ORGANIZER(S): Jessica Hayes-Conroy, Hobart & William Smith Colleges; Jess D. Linz, University of Kentucky

CHAIR(S): Jessica Hayes-Conroy, Hobart & William Smith Colleges

Introducer: Jessica Hayes-Conroy

Panelists: Abigail Barnes; Jess D. Linz, University of Kentucky; Paul S. B. Jackson, University of Delaware; Catherine Jampel, Clark University; Punam Khosla, York University; Jessica Hayes-Conroy, Hobart & William Smith Colleges

**3455. Infrastructures Within and Beyond B/Ordered Geographies of the Global South II**

*Room:* Hampton A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Sophie Schramm, Universität Kassel; Prince Karakire Guma, Darmstadt University of Technology; Amiel Bize

CHAIR(S): Prince Karakire Guma, Darmstadt University of Technology

- 1:20** Mary Lawhon\*, Florida State University; Jonathan Silver; Henrik Ernstson, *Heterogeneous Infrastructure Configurations and the Conditions of Possibility for Radical Incrementalism.*

- 1:40** Elisa Pascucci\*, University of Tampere, *Contesting Humanitarian Goods, Reclaiming Infrastructures: The Politics of Refugee Shelter.*

- 2:00** Sophie Schramm\*, Universität Kassel; Basil Ibrahim, *Managing Pressure on Water Supply in Nairobi: of Water Pipes, Storage Tanks and Citizen Participation.*

- 2:20** Tamer Elshayal, PhD Student in Urban Studies & Planning\*, Harvard University, *The Infrastructural State: Megaprojects and the restructuring of state space in Mubarak's Egypt, 1975-2015.*

- 2:40** Amiel Bize\*, Columbia University, *Jam-Space and Jam-Time: Traffic in Nairobi.*

**3456. Perceptions, experiences, and responses to climate-related extreme events - PART 1 (Sponsored by Human Dimensions of Global Change Specialty Group, Hazards, Risks, and**

**Disasters Specialty Group)**

*Room:* Hampton B, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Jennifer Marlon, Yale University; Peter D. Howe, Utah State University

CHAIR(S): Jennifer Marlon, Yale University

- 1:20** Connor Y.H. Wu\*, Department of Population Health Sciences, Virginia-Maryland College of Veterinary Medicine, Virginia Tech; Benjamin F. Zaitchik, Department of Earth and Planetary Sciences, Zanvyl Krieger School of Arts & Sciences, Johns Hopkins University; Anna A. Scott, Department of Earth and Planetary Sciences, Zanvyl Krieger School of Arts & Sciences, Johns Hopkins University; Julia M. Gohlke, Department of Population Health Sciences, Virginia-Maryland College of Veterinary Medicine, Virginia Tech, *The association between heat waves and preterm birth using address-level versus ZIP code-level data.*

- 1:40** Jose Di Bella, MSc, MRes, PhD Candidate\*, King's College London, Department of Geography, London, *Climate change adaptation and business model innovation: A spatial analysis of business configurations and the implications for community adaptive capacity.*

- 2:00** Elia A Machado, PhD\*, Lehman College, CUNY; Luis Ivan Girón Melgar, Association Vivamos Mejor; Vicken Kayayan Alvarado, Universidad del Valle, Guatemala; Rafael Jon-fai Yon Bobadilla, Universidad del Valle, Guatemala; Fabian Marcelo Zamora Mejía, IARNA, Universidad Rafael Landívar; Héctor Tuy, IARNA, Universidad Rafael Landívar, *Differential risk perceptions in rural Guatemala: implications for disaster reduction.*

- 2:20** Morey Burnham\*, Idaho State University; Katrina Running, Idaho State University; Kathleen Shipley, Idaho State University, *Farmer adaptation to groundwater irrigation curtailments in Southeast Idaho.*

- 2:40** Matthew John Cutler\*, Yale Program on Climate Change Communication, *Individual- and place-based socioeconomic influences on perceptions of heat waves.*

**3457. Remote Sensing and hydrologic modeling for environmental assessment (Sponsored by Geographic Information Science and Systems Specialty Group, Remote Sensing Specialty Group, Water Resources Specialty Group)**

*Room:* Gardner A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Cuizhen Wang, University of South Carolina; Fei Yuan, Minnesota State University, Mankato

CHAIR(S): Fei Yuan, Minnesota State University, Mankato

- 1:20** Fei Yuan\*, Department of Geography, Minnesota State University, Mankato; Phillip Larson, Department of Geography, Minnesota State University, Mankato; Roman Mulvihill, Department of Geography, Minnesota State University, Mankato; Jessica Nelson, Water Resources Center, Minnesota State University; Tyler Grupa, Water Resources Center, Minnesota State University; Rick Moore, LiDAR Data Steward, Minnesota IT Services and Department of Natural Resources, *Stream Network Changes and Environmental Impacts in Watonwan River Watershed.*

- 1:40** Sarah Jean Praskiewicz, Ph.D.\*, University of Alabama, *Hydraulic Characterization of Channel Habitat Units in a Tropical Montane River: Bladen River, Belize.*

- 2:00** Gabriel Zeballos\*, Department of Geography, Ohio State University - Columbus, OH, USA.; Karina Yager, Stony Brook University, School of Atmospheric and Marine Sciences, New York, USA; Antoine Rabatel, Univ. Grenoble Alpes, CNRS, LGGE (UMR 5183), F-38000 Grenoble, France; Álvaro Soruco, Instituto de Geología y del Medio Ambiente, Universidad Mayor de San Andrés, La Paz, Bolivia; Diego Cusicanqui, LMI Great ICE, Institut de Recherche pour le Développement, La Paz, Bolivia.; Bryan Mark, Department of Geography, Ohio State University -



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Columbus, OH, USA., *Complexities of the spatial and temporal dynamics of glaciers and wetlands in the Tropical Andes.*

**2:20** Eman Ghoneim\*, University of North Carolina Wilmington, *Integrative Remote Sensing, GIS and Hydrologic Modeling Techniques to Map Flood Inundation in Saudi Arabia.*

**2:40** Cuizhen (Susan) Wang\*, University of South Carolina, *Establishment of Native Prairie Grasses and Environmental Impacts in the BCAP Land, Southwest Missouri.*

**3458. Spatial Analysis and Modeling**

**Room:** *Gardner B, Sheraton, Third Floor (Paper Session)*

ORGANIZER(S): Minrui Zheng, University of North Carolina at Charlotte

CHAIR(S): Minrui Zheng, University of North Carolina at Charlotte

**1:20** Minrui Zheng\*, University of North Carolina at Charlotte; Wenwu Tang, University of North Carolina at Charlotte, *Selection of non-linear spatial models accelerated using cyber-enabled high-performance computing: a case study of High Rock Lake Watershed.*

**1:40** Varghese Kunjappy\*, Jawaharlal Nehru University; Dipendra Nath Das, Jawaharlal Nehru University; Biswajit Mondal, Jawaharlal Nehru University, *A Geo-Statistical Method of identifying Urban Growth Potential Surface of Kochi City.*

**2:00** Juanle Wang\*, Institute of Geographical Sciences and Natural Resources Research; Shuming Bao, China Data Center, University of Michigan, *Opportunities and Challenges for One Belt and One Road Initiative: A Spatial Analysis Based on OBOR GeoExplorer.*

**2:20** Zhiyuan Yao\*, University of Cincinnati; Changjoo Kim, University of Cincinnati, *Measuring Spatial Structure of American Metropolitan Statistical Areas and an application to commuting time.*

**2:40** Zachary Brecheisen\*, Duke University; Patrick Halpin, Duke University; Seulgi Moon, UCLA; Daniel Richter, Duke University, *Ordering Interfluvies: an Analytical Framework for Hierarchical Patterns in Landscape Structure and Function.*

**3460. Proposal-Writing Strategies for the NSF Geography and Spatial Sciences Program - 2 (Sponsored by AAG Careers and Professional Development Theme)**

**Room:** *Fairfax B, Sheraton, Third Floor (Panel Session)*

ORGANIZER(S): Antoinette WinklerPrins, National Science Foundation

CHAIR(S): Thomas J. Baerwald, National Science Foundation

Introducer: Thomas J. Baerwald

Discussant(s): Antoinette WinklerPrins, National Science Foundation; Holly M. Hapke, National Science Foundation; Sunil Narumalani, National Science Foundation

**3461. Uncomfortable theoretical fit--Debating the China model: which frame and what future? (I) (Sponsored by China Specialty Group, Urban Geography Specialty Group, Economic Geography Specialty Group)**

**Room:** *Jefferson, Sheraton, Third Floor (Paper Session)*

ORGANIZER(S): Jun Zhang, University of Toronto; George C.S. Lin, University of Hong Kong; Yu Zhou, Vassar College

CHAIR(S): Cindy Fan, UCLA

**1:20** Max D. Woodworth\*, The Ohio State University, *Modular Urbanism and the Need for Speed: isomorphism and crisis in the neoliberal Chinese city.*

**1:40** Roger C.K. Chan\*, The University of Hong Kong, *Land development and land tenure model in the Pearl River Delta region.*

**2:00** George C.S. Lin, Prof\*, University of Hong Kong,

*"Profiting without Producing" in Urban China?*

*Hypermobile housing markets in Chinese cities amidst economic downturn and sluggish industrial production.*

**2:20** Xun Li, Prof, Sun Yat-sen University; Wei Lang, Dr., Sun Yat-sen University; Tingting Chen\*, Sun Yat-sen University, *Allometric Scaling of Cities: One of China's Urbanization Mysteries.*

**2:40** Xuefeng Wang\*, Newcastle University, *The Three Land Reforms: The decisive factor underpinning China's economic success.*

**3462. Understanding Chinese capital and labor-1 (Sponsored by China Specialty Group)**

**Room:** *Kent, Sheraton, Third Floor (Paper Session)*

ORGANIZER(S): Xiaobo Su, University of Oregon

CHAIR(S): Victor Owusu, Seoul National University

**1:20** Shuyun Che\*, Institute of Geographic Sciences and Natural Resources Research, CAS; Zhouying Song, Institute of Geographic Sciences and Natural Resources Research, CAS, *The revolution and influence factors of border port-city relationship in China.*

**1:40** Victor Owusu\*, Seoul National University, *An assessment of social capital creation of small scale Chinese gold miners in Ghana.*

**2:00** Dandan Li\*, *Spatio-temporal evolution pattern and mechanism innovative milieu and output: a case study of Jiangsu Province, China.*

**2:20** Jianji Zhao\*, yanhua wang, *Multi-scale analysis of the R&D networks of IC and Biomedicine industry in Zhangjiang Hi-tech Park, China.*

**3463. Engagements with the work of Dianne Rocheleau III: practicing political ecology (Sponsored by Cultural and Political Ecology Specialty Group)**

**Room:** *Commonwealth, Sheraton, Third Floor (Panel Session)*

ORGANIZER(S): Jennifer Brewer, University of New Hampshire; Katherine Foo, Pennsylvania State University; Robin Roth, University of Guelph

CHAIR(S): Jennifer Brewer, University of New Hampshire

Discussant(s): Simon P J Batterbury, Lancaster University;

Dianne E. Rocheleau, Clark University

Panelists: Jennifer Brewer, University of New Hampshire; Carolyn Finney, University of Kentucky; Susannah R. McCandless, Global Diversity Foundation; Saulo Araujo, WhyHunger and US Food Sovereignty Alliance

**3464. The past, present, and future of environmental justice research: Introducing the Routledge Handbook of Environmental Justice (Sponsored by Cultural and Political Ecology Specialty Group, Ethics, Justice, and Human Rights Specialty Group, Energy and Environment Specialty Group)**

**Room:** *Boylston, Marriott, First Floor (Panel Session)*

ORGANIZER(S): Ryan Holifield, University of Wisconsin - Milwaukee; Gordon Walker, Lancaster University; Jayajit Chakraborty, University of Texas - El Paso

CHAIR(S): Ryan Holifield, University of Wisconsin - Milwaukee

Discussant(s): Julian Agyeman, Tufts University; Gordon Walker, Lancaster University; Jayajit Chakraborty, University of Texas - El Paso; Ryan Holifield, University of Wisconsin - Milwaukee; Laura Pulido, University of Oregon - Eugene, OR

Panelists: Jonathan K. London, ept of Human Ecology/Community and Regional Development; Isabelle Anguelovski, Universitat Autònoma de Barcelona; Juliana Maantay, Lehman College/CUNY; Rosie Day, University of Birmingham

**3465. 25 Years of Ethnic Geography Specialty Group-I: Founding Philosophies and the State of Ethnic Geography in 21st CE (Sponsored by Population Specialty Group, Urban Geography Specialty Group, Ethnic Geography Specialty Group)**



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- Room:** Tremont, Marriott, First Floor (Panel Session)  
**ORGANIZER(S):** Madhuri Sharma, University of Tennessee, Knoxville; Carlos Teixeira, University of British Columbia Okanagan  
**CHAIR(S):** John Frazier, Binghamton University  
**Panelists:** Lawrence E. Estaville, Texas State University; Ira M. Sheskin, University of Miami; Richard L. Nostrand, University of Oklahoma; Carlos Teixeira, University of British Columbia Okanagan; Wei Li, Arizona State University; David H. Kaplan, Kent State University
- 3466. Cartography Honors Student Paper Competition (Sponsored by Cartography Specialty Group)**  
**Room:** Columbus 1, Marriott, First Floor (Paper Session)  
**ORGANIZER(S):** Stephanie Deitrick, Arizona State University  
**CHAIR(S):** Stephanie Deitrick, Arizona State University  
**1:20** Brendan A. Hoover\*, The University of Texas, *A Novel Way to Visualize Animal Interactions*.  
**1:40** Qingyu Ma\*, The Pennsylvania State University; Mark Simpson, The Pennsylvania State University; Jennifer Mason, The Pennsylvania State University; Jan Oliver Wallgrün, The Pennsylvania State University; Kai-Florian Richter, The University of Melbourne; Alexander Klippel, The Pennsylvania State University, *Web-based Platform Design and Implementation for Visual Summary Approach*.  
**2:00** James Eugene Baker\*, University of Nebraska Omaha, *The Bloodshot Gaze of the Citizen: Visceral Cartographies of Black January and Embodied Visual Practices of Independence in Azerbaijan*.  
**2:20** Emory Shaw\*, Concordia University, *How is Place Mediated on Twitter?*.  
**2:40** Oleg Dmytrykov\*, V.N. Karazin Kharkiv National University; Vilina Peresadko, V.N. Karazin Kharkiv National University, *Cartography in Ukraine: pragmatic aspect and place of Cartography in Earth Sciences*.
- 3467. Author Meets Critics: Ian Shaw's "Predator Empire" (Sponsored by Political Geography Specialty Group, Socialist and Critical Geography Specialty Group)**  
**Room:** Columbus 2, Marriott, First Floor (Panel Session)  
**ORGANIZER(S):** Majed Saeed Akhter, Indiana University  
**CHAIR(S):** Majed Saeed Akhter, Indiana University  
**Introducer:** Majed Saeed Akhter  
**Discussant(s):** Vanessa Anne Massaro, Bucknell University; Ian Shaw, The University of Glasgow  
**Panelists:** Tyler Wall; Susan M. Roberts, University Of Kentucky; Katharine Hall Kindervater, Dartmouth College
- 3468. Geographies of Disability 1: Mapping & Accessibility (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme, Rural Geography Specialty Group, Health and Medical Geography Specialty Group, Disability Specialty Group)**  
**Room:** St. Botolph, Marriott, Second Floor (Paper Session)  
**ORGANIZER(S):** Sandy Wong, University of Illinois at Urbana-Champaign; Andrew Myers, University of Montana; Susanne Zimmermann-Janschitz, University of Graz  
**CHAIR(S):** Andrew Myers, University of Montana  
**1:20** Andrew Myers\*, University of Montana; Lillie Greiman, University of Montana; Kourtney Johnson, University of Montana, *Current Disability Patterns in Rural America*.  
**1:40** Nathaniel Bell\*, University of South Carolina, *Geographical research on spinal cord injury disparities: some thoughts on the census and street-network mapping*.  
**2:00** Martha E. Geores, Associate Professor\*, University of Maryland College Park Department of Geographical Sciences, *"Way-finding": How do I get there from here?*.
- 2:20** Sandy Wong\*, University of Illinois at Urbana-Champaign, *Visual impairment & urban mobilities: An evaluation of activity space techniques to understanding movement*.  
**2:40** Aimi Hamraie\*, Vanderbilt University, *Mapping Access: from code compliance to intersectional disability justice*.
- 3469. Climate and Environmental Change in the Northeast United States I (Sponsored by Climate Specialty Group, Geomorphology Specialty Group, Water Resources Specialty Group)**  
**Room:** Regis, Marriott, Third Floor (Paper Session)  
**ORGANIZER(S):** Francis J. Magilligan, Dartmouth College; Jonathan Winter, Dartmouth College; Steven Silvern, Salem State University  
**CHAIR(S):** Francis J. Magilligan, Dartmouth College  
**1:20** Allan Frei, Professor, Department of Geography, Hunter College / CUNY Institute for Sustainable Cities, *How Unique were Hurricane Irene and Tropical Storm Lee in the Catskill Mountains?*.  
**1:36** Jonathan M. Winter\*, Dartmouth College; Huanping Huang, Dartmouth College; Erich C. Osterberg, Dartmouth College, *Total and Extreme Precipitation Changes over the Northeastern United States*.  
**1:52** Laura Stroup\*, St. Michael's College, *Stationarity is Dead: Whither New England?*.  
**2:08** Christopher Woltemade, Ph.D.\*, Shippensburg University, *Flood Hydrology in the Delaware River Basin: Geographic Variability and Institutional Adaptation to Changes in Climate and Land Cover*.  
**2:24** Vivien Gornitz\*, Columbia University; Radley Horton, Dr., Columbia University; Daniel A. Bader, Columbia University; Philip Orton, Dr., Steven Institute of Technology; Cynthia Rosenzweig, Dr., Columbia University/NASA Goddard Institute for Space Studies, *Adapting to Sea Level Rise and More Frequent Coastal Flooding in New York City*.  
**2:40** Jase Bernhardt, Assistant Professor\*, Hofstra University, *A Comparison of Daily Temperature Averaging Methodologies: Spatial Variability, Seasonal Patterns, and Related Climate Variables in the CONUS*.
- 3470. Legibility Acts and Climate Adaptation 1 (Sponsored by Cultural and Political Ecology Specialty Group, Human Dimensions of Global Change Specialty Group, Water Resources Specialty Group)**  
**Room:** Northeastern, Marriott, Third Floor (Paper Session)  
**ORGANIZER(S):** Denielle Perry, University of Oregon  
**CHAIR(S):** Denielle Perry, University of Oregon  
**1:20** Kirstin Dow, PhD\*, University of South Carolina; Kirsten Lackstrom, PhD, University of South Carolina; Erika Chin, MS, University of South Carolina, *Incorporating Climate Change into State Wildlife Action Plans: Progress in the Southeastern US*.  
**1:40** Martin W. Doyle\*, Duke University, *Federalism in federal agencies: How the Corps of Engineers manages reservoirs in different regions of the US*.  
**2:00** Lindsay Shade\*, University of Kentucky, *From Transparency to Systemic Opacity: Mining Rights and Land Tenure Struggles in Appalachia and the Andes*.  
**2:20** Denielle Perry, Ph.D. Candidate\*, University of Oregon, *Legible Rivers, Resilient Rivers: Lessons in adaptation from the Wild and Scenic Rivers Act*.  
**Discussant(s):** James McCarthy, Clark University
- 3471. Transforming urban places: understanding community - II**  
**Room:** Brandeis, Marriott, Third Floor (Paper Session)  
**ORGANIZER(S):** Charles John Barlow, University of Chicago; Julie Clark, University of Glasgow  
**CHAIR(S):** Julie Clark, University of Glasgow  
**1:20** Delphine Delphine\*, Utrecht University; Patrick Witte,

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Utrecht University; Tejo Spit, Utrecht University; Annelies Zoomers, Utrecht University, *Fooling the People? A bottom-up perspective on megaproject development.*

**1:40** Christina West\*, Heidelberg University, *"Let Refugee Women Speak! - Moments of the Discourse ?Refugee Women".*

**2:00** Julie Clark, PhD\*, University of Glasgow, *With best intention: spaces between theory, policy, research and community.*

**2:20** Katie Bart\*, University of Chicago; Charles Barlow, University of Chicago, *Community Participation in Defensible Placemaking.*

**2:40** Enda Murphy\*, University College Dublin; Linda Fox-Rogers, Queens University Belfast, *Stakeholder perspectives of the common good in the planning process.*

## **3472. Quiet Social Movements & Everyday Life in the urban global South: Towards New Geographies of Social Change III (Sponsored by Qualitative Research Specialty Group)**

*Room:* MIT, Marriott, Third Floor (Panel Session)

ORGANIZER(S): Susmita Rishi, University of Washington; Amy Piedalue, University of Washington

CHAIR(S): Linda Peake, York University

Discussant(s): Sara Koopman, University of Tampere

Panelists: Laura Riddering, University of Maryland - Baltimore County; Aparna Parikh, Pennsylvania State University; Sarah Turner, McGill University; Sarah Rich-Zendel, University of Toronto; Nicholas L. Padilla, University of Wisconsin-Milwaukee

## **3473. Critical Geographies of Energy 1: Space, Scale and Discourse in Post-Hydrocarbon Politics (Sponsored by Human Dimensions of Global Change Specialty Group, Ethics, Justice, and Human Rights Specialty Group, Energy and Environment Specialty Group)**

*Room:* Boston University, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Ryan Maurice Katz-Rosene, University of Ottawa; Mia Renauld; Noel Healy, Dept Geography Salem State University

CHAIR(S): Ryan Maurice Katz-Rosene, University of Ottawa

Introducer: Ryan Maurice Katz-Rosene

**1:25** Sean F Kennedy\*, UCLA, *"Alternative energy capital of the world"? Geographies of energy transition and governance in Los Angeles' urban periphery.*

**1:45** Danya Al-Saleh\*, University of Wisconsin, *The engineering of energy infrastructures for a "post-hydrocarbon" Qatar.*

**2:05** Jessica Debski\*, Salem State University, *Fossil Fuel Divestment: Implications for the Future of Sustainability Discourse and Action within Higher Education.*

**2:25** Ryan M Katz-Rosene, SSHRC Postdoctoral Fellow\*, University of Ottawa, *Energizing 8.5 Billion: The Socio-Spatial Implications of Eco-Modernist and De-Growthist Energy Futures.*

Discussant(s): Noel Healy, Dept Geography Salem State University

## **3474. The controversial limits of DRR R&A (1): How to better manage disasters?**

*Room:* Simmons, Marriott, Third Floor (Panel Session)

ORGANIZER(S): Julien Rebotier, CNRS; Patrick Pigeon, université de Savoie-Mont-Blanc

CHAIR(S): Sebastien Nobert

Introducer: Julien Rebotier

Discussant(s): Patrick Pigeon, université de Savoie-Mont-Blanc; Sebastien Nobert

Panelists: Juanita Lopez; Jesse Ribot, University of Illinois; Michael Glantz, CCB

## **3475. Symposium on Human Dynamics in Smart and Connected Communities Plenary Lecture: Information and Cities: Learning from the Past to Understand the Future (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group, Urban Geography Specialty Group)**

*Room:* Suffolk, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Daniel Z. Sui, The Ohio State University; Shih-Lung Shaw, University of Tennessee

CHAIR(S): Daniel Z. Sui, The Ohio State University

Introducer: Daniel Z. Sui

**1:40** Mitchell L. Moss\*, New York University; Anthony M. Townsend, Data and Society Research Institute, *Information and Cities: Learning from the Past to Understand the Future.*

Discussant(s): Mark I. Wilson, Michigan State University; Barney Warf, University of Kansas; Shih-Lung Shaw, University of Tennessee

## **3476. Symposium on Human Dynamics in Smart and Connected Communities: Spatial-Social Networks in GIS 3 (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group, Spatial Analysis and Modeling Specialty Group)**

*Room:* Wellesley, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Xinyue Ye, Kent State University; Xingjian Liu, University of Hong Kong; Clio Andris

CHAIR(S): Debarchana Ghosh, University of Connecticut

**1:20** Debarchana Ghosh, PhD\*, University of Connecticut; Frederick L Altice, MA, MD, Yale School of Medicine, Yale University, *Associations of Aspatial Social Network and Spatiotemporal Network Metrics with Substance Use and HIV/AIDS Treatment Outcomes.*

**1:40** Felipe Link\*, Pontificia Universidad Catolica De Chile, *Residential density and personal social networks. ¿Paradoxes of metropolization?.*

**2:00** Xi Liu\*, Pennsylvania State University, *Feature learning for places based on urban flow networks.*

**2:20** Suparna Das\*, DC Department of Health; Brittani Saafir-Callaway, HAHSTA, DC DOH; Benjamin Takai, HAHSTA, DC DOH; Nestor Rocha, HAHSTA, DC DOH; Avemaria Smith, HAHSTA, DC DOH, *Using Social Network to identify new HIV positives in the District of Columbia.*

**2:40** Lei Zou\*, Louisiana State University; Nina Lam, Louisiana State University, *Mining Social Media Data for Improved Understanding of Disaster Resilience.*

## **3477. Real Estate Technologies: Genealogies, Frontiers, & Critiques II (Sponsored by Urban Geography Specialty Group, Economic Geography Specialty Group)**

*Room:* Harvard, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Will Payne, University of California -

Berkeley; Sarah E. Knuth, University of Michigan;

Dillon Mahmoudi, Portland State University

CHAIR(S): Dillon Mahmoudi, Portland State University

**1:20** Jeffrey Wilson, PhD Candidate\*, School of Geography and Development University of Arizona; Geoff Boyce, PhD, School of Geography and Development University of Arizona; Sarah Launius, PhD Candidate, School of Geography and Development University of Arizona, *Data-Driven Governance and Dispossession in Detroit.*

**1:40** Ofurhe Igbinedion\*, University of California - Davis, *Ground-Truthing Walk Score with Smartphone Data.*

**2:00** Craig Dalton\*, Hofstra University, *Data, housing, and Counter-mapping.*

**2:20** Yanni Alexander Loukissas, PhD\*, Georgia Tech University, *All the homes: Zillow and the operational context of real estate data.*

Discussant(s): Will Payne, University of California - Berkeley

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## 3479. Land Change 2: Governance, Ownership and Management (Sponsored by Cultural and Political Ecology Specialty Group, Human Dimensions of Global Change Specialty Group, Geographies of Food and Agriculture Specialty Group)

Room: Arlington, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Richard J. Aspinall

CHAIR(S): Rachael Garrett, Boston University

1:20 Kendra Bishop\*, University of Hawaii - Manoa; Kimberly M Carlson, University of Hawaii-Manoa, *Assessing the role of third-party audits in ensuring producer compliance with the Roundtable on Sustainable Palm Oil (RSPO)*.

1:40 Shanon Donnelly\*, University of Akron, *The role of land ownership patterns in the land change impacts of shale oil and gas pipelines in the Utica Shale*.

2:00 Martin C. Lukas\*, Bremen University, MARUM (Center for Marine Environmental Sciences) and Sustainability Research Center (artec), *Tenure contestation: An underexplored cause of land use and land cover change*.

2:20 Ilyun Koh\*, Boston University; Rachael Garrett, Boston University; Lisa Rausch, University of Wisconsin-Madison; Chris Brown, University of Kansas; Jude Kastens, University of Kansas; Yann le Polain, Stanford University, *Modelling Land Use in Brazilian Cerrado and Amazon as a Result of Changing Governance and Supply Chain Dynamics*.

2:40 Rachael Garrett\*, Boston University, *Environmental governance, supply chains, and land cover change*.

## 3480. The Geography of Entrepreneurship and its Ecosystems III (Sponsored by AAG Careers and Professional Development Theme, Economic Geography Specialty Group, Business Geography Specialty Group)

Room: Berkeley, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Elizabeth Mack, Michigan State University; Murray Rice, University of North Texas; Heike Mayer, University of Bern, SwitzerlandGeographisches Institut

CHAIR(S): Elizabeth Mack, Michigan State University

1:20 Paul Lassalle\*, Sheffield Hallam University; Sakura Yamamura, University of Kiel, Department of Geography, working group Economic Geography, *The development of the entrepreneurial ecosystem for the ICT sector in a resource-scarce small island state: the case of Malta*.

1:40 Heike Mayer\*, University of Bern, SwitzerlandGeographisches Institut, *Entrepreneurial ecosystems and peripheral regions*.

2:00 Yasuyuki Motoyama\*, Ewing Marion Kauffman Foundation, *Entrepreneurship Ecosystems in Small Towns of Montana*.

2:20 Erik Stam\*, Utrecht University, *Regional Entrepreneurial Ecosystems: Theory, practice and measurement*.

## 3481. Geographies of infrastructure, state-making and political subjectivity - II

Room: Clarendon, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Dinesh Paudel, Appalachian State University; Katharine Rankin, University of Toronto; Elsie Lewison, University of Toronto

CHAIR(S): Katharine Rankin, University of Toronto

1:20 Rhys Jones\*, Aberystwyth University; Hywel Griffiths, Aberystwyth University; Peter Merriman, Aberystwyth University, *Database nation: language and the automatic production of national infrastructures*.

1:40 Jan Bachmann\*, University of Gothenburg; Peer Schouten, Danish Institute for International Studies, *Political engineering: the tangle of infrastructure, security and state authority in contemporary statebuilding interventions*.

2:00 Henning Fueller\*, Humboldt-Universitaet zu Berlin,

*Infrastructures of preemption. The example of event-based surveillance in public health*.

2:20 Andrea Pollio\*, Institute for Culture and Society, *People as (digital) Infrastructure: Digital Divides, Urban Divides, and Ethnography of the Future*.

2:40 Oren Shlomo\*, Harvard University, *The governmentalities of infrastructure and services amid urban conflict: The case of East Jerusalem*.

## 3482. Memory and Place (Sponsored by Cultural Geography Specialty Group, Historical Geography Specialty Group)

Room: Dartmouth, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Hélène DUCROS; Joseph Palis, University of the Philippines-Diliman

CHAIR(S): Joseph Palis, University of the Philippines-Diliman

1:20 Emma Jay Walcott-Wilson\*, University of Tennessee, *Cultivating Memoryscapes: Politics of Language at Plantation House Museums*.

1:40 Rebecca A. Sheehan\*, Oklahoma State University; Jennifer Speights-Binet\*, Samford University, *The Last "White" Stand: Preserving Confederate Monuments in New Orleans and the Trump Victory*.

2:00 Hélène DUCROS\*, *A Monument in the City: Collective Memory, Place-Based Interpretation and Commemorability*.

2:20 Trushna Parekh\*, Texas Southern University, *Belonging in a gentrifying neighborhood: racialization, collective memory, and scaled narratives from Tremé, New Orleans*.

2:40 Barbara L. MacLennan, M.S.\*, West Virginia University, *Reimaginings of space and place: Presidential identity and the ol' swimming hole in public memory*.

## 3483. Our National Parks: 100 Years and Beyond (Sponsored by Recreation, Tourism, and Sport Specialty Group, Cultural Geography Specialty Group)

Room: Exeter, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Matthew Cook, Eastern Michigan University

CHAIR(S): David R. Butler, Texas State University - San Marcos

1:20 Madison L. Pevey\*, Texas State University - San Marcos, *Outdoor Turned In: policy implications for increased sports climbing in national parks*.

1:40 Clinton Dallas Cooper\*, Idaho State University; Donna Lybecker, PH.D., Idaho State University; Yolonda Youngs, PH.D., Idaho State University, *The Place of Sound in National Parks: Acoustic Cultural Landscapes, Environmental Policy, and Tourism*.

2:00 Sohyun Park\*, Texas Tech University, *Palmto Ranch Battlefield Landscape: Cultural Heritage, Ecological Values, and Emerging Challenges*.

2:20 William Matthew Hunter\*, Cuyahoga Valley National Park, *Dunloup Creek: Post-Coal Ecology and the Production of Nature*.

2:40 David R. Butler\*, Texas State University, *Rediscovering the Lost Oblique Aerial Photography of A.W. Stevens as a Basis for Studies of Environmental Change*.

## 3484. Special Session on urban climatology in Asia (Sponsored by Regional Development and Planning Specialty Group, Asian Geography Specialty Group, Climate Specialty Group)

Room: Fairfield, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Winston T. Chow, National University of Singapore; Chandana Mitra, Auburn University

CHAIR(S): Winston T. Chow, National University of Singapore

1:20 Jennifer K. Vanos\*, UC San Diego; Robert Brown, Texas A & M University; Eichi Kosaka, University of Tokyo; Akiko Iida, University of Tokyo; Makoto Yokohari, PhD, University of Tokyo, *Microclimatic Design of the 2020 Olympic Marathon Route: Establishing a Baseline for Thermal Comfort*.

1:40 Amir A. Aliabadi, Professor\*, University of Guelph; E. Scott Krayenhoff, Ph.D., Arizona State University;



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Negin Nazarian, Ph.D., Singapore-MIT Alliance for Research & Technology Centre, Singapore; Lup Wai Chew, Ph.D. Candidate, Massachusetts Institute of Technology; Peter R. Armstrong, Professor, Masdar Institute of Science and Technology; Afshin Afshari, Professor, Masdar Institute of Science and Technology; Leslie K. Norford, Professor, Massachusetts Institute of Technology, *Effects of Roof Edge Roughness on Air Temperature and Pollutant Concentration in Urban Canyons*.

**2:00** Iain Douglas Stewart, Ph.D.\*, University of Toronto, *Metabolic Heat Production by Human and Animal Populations in Asian Megacities*.

**2:20** Yanxu Liu\*, Peking University; Jian Peng, College of Urban and Environmental Sciences, Peking University, *Influence of landscape pattern on land surface temperature in Shenzhen City, China*.

**2:40** Winston T. Chow\*, National University of Singapore, *Geographies of Asian urban climates: past, present, future?*.

## 3485. Geographies of Degrowth, Part III: 'Decolonization' (Sponsored by Cultural and Political Ecology Specialty Group)

Room: Salon H, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Federico Demaria, Universitat Autònoma de Barcelona; Giorgos Kallis, Universitat Autònoma de Barcelona; Karen Bakker, University of British Columbia

CHAIR(S): Karen Bakker, University of British Columbia  
Introducer: Karen Bakker

**1:40** Sara Sophia Lowden, PhD student\*, University of Maine, *Ecuador's misappropriation of 'buen vivir'*.

**2:00** Padini Nirmal\*, Clark University, *Decolonizing Degrowth in Adivasi India: An exploratory overview*.

**2:20** Giuseppe Feola\*, University of Reading, *The unmaking of capitalism and space making for Degrowth: theories of, and beyond the 'decolonization of the imaginary'*.

**2:40** Balakrishnan Padmavathi, Ph D Candidate\*, Jawaharlal Nehru University, *Beyond 'Degrowth': Centering Labor in the Third World Environmentalism*.

## 3486. 3D Virtual and Augmented Realities for Geoinformation Science, II (Sponsored by Geographic Information Science and Systems Specialty Group, Cartography Specialty Group)

Room: Salon I, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Alexander Klippel, Pennsylvania State University; Sven Fuhrmann, George Mason University; Robert N. Stewart, Oak Ridge National Laboratory

CHAIR(S): Sven Fuhrmann, George Mason University

**1:20** Mark Simpson\*, Pennsylvania State University; Danielle Oprean, Dr., Pennsylvania State University; Alexander Klippel, Dr., Pennsylvania State University, *Immersive Virtual Reality and Geography: A Visual Summary*.

**1:40** Robert N. Stewart\*, Oak Ridge National Laboratory; Marie Urban, Oak Ridge National Laboratory; Samantha Duchscherer, Oak Ridge National Laboratory; Matheos Asfaw, University of Southern California; David Andersen, CADRE 5; Eric Axley, CADRE 5, *Towards a Virtual Reality Elicitation Approach for Facility Occupancy*.

**2:00** Jiawei Huang\*, Pennsylvania State University; Alexander Klippel, Pennsylvania State University; Jan Oliver Wallgrün, Pennsylvania State University, *Finding Efficient Digital Tree Visualization in 3D Applications and Virtual Reality*.

**2:20** Sven Fuhrmann\*, George Mason University, *Augmented Reality in Geoinformation Technology Courses*.

**2:40** Alisa Pettitt\*, George Mason University, Fairfax County Park Authority, *Educational AR and VR applications for the Interpretation of Archaeological Sites in Northern Virginia*.

## 3487. Urban parks and green space: Working for the city (1 of 3) (Sponsored by Regional Development and Planning Specialty Group, Urban Geography Specialty Group, Health and Medical Geography Specialty Group)

Room: Salon J, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Meredith Whitten, London School of Economics

CHAIR(S): Meredith Whitten, London School of Economics

**1:20** Christopher Ling, PhD\*, Royal Roads University; Leslie King, PhD, Royal Roads University, *Urban biodiversity, quality of life and climate adaptation: case studies and novel approaches*.

**1:40** Marion Le Texier, University of Rouen; Geoffrey Caruso, University of Luxembourg, *Framing and reviewing a green mismatch hypothesis*.

**2:00** Jianyong Wu\*, ORISE Fellow at US. EPA; Laura Jackson, US. EPA, *Green Space and Childhood Autism*.

**2:20** Sara S Metcalf, PhD\*, University at Buffalo (SUNY); LaDona Knigge, PhD, California State University, Chico; Erika S Svendsen, PhD, U.S. Forest Service; Harvey D Palmer, PhD, University at Buffalo (SUNY); Hua Wang, PhD, University at Buffalo (SUNY); Mary E Northridge, MPH, PhD, New York University College of Dentistry and College of Global Public Health, *An Integrated Approach to Modeling Adolescent Engagement with Environmental Stewardship Programs*.

## 3488. Learning and Applying Tools in Geography: Important Concepts in GIS (Sponsored by Geographic Information Science and Systems Specialty Group, AAG Careers and Professional Development Theme, Geography Education Specialty Group)

Room: Salon K, Marriott, Fourth Floor (Panel Session)

ORGANIZER(S): Patrick Rickles, University College London

CHAIR(S): Patrick Rickles, University College London

Panelists: Diana Stuart Sinton, UCGIS; Michael N. DeMers, New Mexico State University; Karen Kemp, University of Southern California; David DiBiase, Esri; Nicholas Tate, University of Leicester

## 3489. All Things Nuclear in a Post-Fukushima Context: Geographical Perspectives - 3 (Sponsored by Hazards, Risks, and Disasters Specialty Group, Energy and Environment Specialty Group, Economic Geography Specialty Group)

Room: Vineyard, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Misa Yasumiishi, University at Buffalo; Marissa Z. Bell, University At Buffalo; Daisaku Yamamoto, Colgate University

CHAIR(S): Misa Yasumiishi, University at Buffalo

**1:20** Noritsugu Fujimoto, Professor\*, Toyo University; Noritsugu Fujimoto, Visiting Professor\*, Fukushima University, *Regional economic boom after the nuclear disaster: Political economy, governance and reconstruction policy in Fukushima*.

**1:35** Masayuki SETO\*, Fukushima University; Akira Takagi, Kumamoto Gakuen University, *International transferring of disaster management knowledge*.

**1:50** Makoto Takahashi\*, University of Cambridge, *Enacting Nuclear Expertise: a performative analysis of post-Fukushima workshops and exercises*.

**2:05** Alexander Michael Pustelnyk\*, Colgate University, *The 'Nature' of Exclusion: Nuclear Natures in the Chernobyl Exclusion Zone*.

**2:20** Nathaniel Trumbull, Univ. of Connecticut; Oleg Bodrov, Green World, *Best Practices of Nuclear Power Plant Decommissioning: International Lessons and Mitigating its Socio-Economic Impacts*.

Discussant(s): Marissa Z. Bell, University At Buffalo



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## 3490. Urban Economies and the Ordinary Life C: Cities and Industry

Room: *Yarmouth, Marriott, Fourth Floor* (Paper Session)

ORGANIZER(S): John Miron, University of Toronto

CHAIR(S): Karen M. King, University of Toronto

1:20 Nancey Green Leigh, PhD, FAICP\*, Georgia Institute of Technology; Benjamin R Kraft, PhD student, Georgia Institute of Technology, *The Economic Geography of Robotics Skills in U.S. Labor Markets*.

1:40 Brian Ceh\*, Ryerson University; Matthew Abraham, Ryerson University; David Kosior, Ryerson University, *Location and Temporal-Spatial Understanding of Canadian Inventions: 1991-2016*.

2:00 Gang Xu\*, Department of Geography & Sustainable Planning, Grand Valley State University; Wanxiao Sun, Department of Geography & Sustainable Planning, Grand Valley State University, *Patterns of Spatial Clustering of High-tech Firms in U.S. Metropolitan Areas*.

2:20 Richard Florida, University of Toronto; Karen M. King\*, University of Toronto, *Rise of the Urban Startup Neighborhood: Micro-clusters of Venture Capital and Startup Activity at the Neighborhood Level*.

## 3491. Is another smart city possible? Sharing cities and economies in a digital age (3/3)

Room: *Nantucket, Marriott, Fourth Floor* (Paper Session)

ORGANIZER(S): Ayona Datta, King's College London; Rob Kitchen, National University Of Ireland Maynooth; Julian Agyeman, Tufts University

CHAIR(S): Duncan McLaren, Lancaster Environment Centre

1:20 Monica Bernardi\*, University of Milano Bicocca, *Sharing City, The Human Way To The Smart City*.

1:40 Greg Phillip Griffin\*, University of Texas at Austin, *Is PPGIS Becoming a Critical Tool for Participatory Placemaking in Sharing Cities? Sociomaterial evidence from Bike Sharing to Inform Theory and Practice*.

2:00 Isha Patel\*, *Hacking as Adaptation: A New Agenda for Planning Through the Lens of Copenhagen's Sharing Economy*.

2:20 Alessia Calafiore\*, Dept. Computer Science, University of Torino; Giacomo Pettenati, Dept. of Cultures, Politics and Society, University of Torino; Alessio Antonini, Dept. Computer Science, University of Torino; Eloheh Mason, Dept. of Cultures, Politics and Society, University of Torino; Agnese Migliardi, Dept. of Cultures, Politics and Society, University of Torino; Cristina Pidello, Dept. of Cultures, Politics and Society, University of Torino; Luigi Sanasi, Dept. Computer Science, University of Torino; Claudio Schifanella, Dept. Computer Science, University of Torino; Guido Boella, Dept. Computer Science, University of Torino; Egidio Dansero, Dept. of Cultures, Politics and Society, University of Torino, *Enabling Youth Geographies In The Digital Smart City. An Action-Research Approach*.

2:40 Rainer Kattel\*, Tallinn University of Technology, *Regulating UBER*.

## 3492. PREM: A Roundtable on Prisons, Racism, Empire, Militarism

Room: *Provincetown, Marriott, Fourth Floor* (Panel Session)

ORGANIZER(S): Jenna M. Loyd, University of Wisconsin-Milwaukee; Ted Rutland, Concordia University

CHAIR(S): Stuart Schrader, Harvard University

Panelists: Nicole Nguyen, University of Illinois - Chicago; Javier Arbona, UC Davis; Judah Schept, Eastern Kentucky University - Richmond, KY; Jenna M. Loyd, University of Wisconsin-Milwaukee; Rashad Shabazz, Arizona State University

## 3493. Geographies of extinction: space, biopolitics and temporality 3 (Sponsored by Political Geography Specialty Group, Animal Geography Specialty Group)

Room: *Orleans, Marriott, Fourth Floor* (Paper Session)

ORGANIZER(S): Ian Klinke

CHAIR(S): Maan Barua, University of Oxford

1:20 Jean Estebanez, UPEC (University Paris-Est Créteil), *Extinction as a commodity: zoos, biopolitics and the use of rarity*.

1:40 Irus Braverman\*, SUNY - Buffalo State, *Bleached! Anticipating Coral Extinction*.

2:00 Christine Biermann\*, University of Washington, *Cleansing waters: examining the rise of genetic extinction as a conservation threat*.

2:20 Paolo Giaccaria, University of Turin; Annalisa Colombino, University of Graz, *The Survival of the Freak, the Extinction of the Normal: humanimalian biopolitics and pragmatics of profitable animal breed selection*.

Discussant(s): Maan Barua, University of Oxford

## 3494. Contradictions of the Climate Friendly City 1: Critical Perspectives on Urban Climate Change Mitigation and Adaptation (Sponsored by Political Geography Specialty Group, Cultural and Political Ecology Specialty Group)

Room: *Hyannis, Marriott, Fourth Floor* (Paper Session)

ORGANIZER(S): Jennifer L. Rice, University of Georgia; Daniel Aldana Cohen, University of Pennsylvania; Joshua Long, Southwestern University

CHAIR(S): Jennifer L. Rice, University of Georgia

Introducer: Jennifer L. Rice

1:30 Daniel Aldana Cohen\*, University of Pennsylvania, *The Myth of Municipal Political Will: The Politics of Collective Consumption and the Failure of Michael Bloomberg's Congestion Charge*.

1:50 Miriam Greenberg, Professor of Sociology\*, University of California Santa Cruz, *Uneven Sustainable Development: The Contradictions of Greening Efforts in the Market-Oriented City*.

2:10 Sophie Webber, UCLA; Emma Colven, UCLA; Eric Sheppard, UCLA, *Coercing resilience in Jakarta, an ambivalent city*.

## 3495. Contemporary issues in Maritime Transport Geography #1

Room: *Falmouth, Marriott, Fourth Floor* (Paper Session)

ORGANIZER(S): Jeanne-Hélène Jugie, Université De Montreal; Claude Comtois, University of Montreal

CHAIR(S): Claude Comtois, University of Montreal

Introducer: Claude Comtois

1:22 Suzanna Long, PhD, PEM\*, Missouri University of Science and Technology; Lizzette Perez-Lespier, MS, PE, Missouri University of Science and Technology; Tom G Shoberg, PhD, U.S. Geological Survey; Steven M Corns, PhD, Missouri University of Science and Technology, *Using Physical Interdependencies to Mitigate Environmental Damage from Maritime Shipping*.

1:42 Melia Lagace\*, Université De Montreal, *Network, Fleet and Harvest Dynamics of the Canadian Arctic Offshore Fisheries*.

2:02 Simon Savard\*, Université De Montreal, *The Effects of Climate Change on Arctic Navigation*.

2:22 Samuël Duchesne\*, Université de Montreal, *Adapting Canada's ports to changing grain logistics trends*.

2:42 Antoine Kingsbury\*, *The St. Lawrence cruise market*.

## 3496. Experiments in Force III: Historicizing Technologies and the Apparatus of Security (Sponsored by Political Geography Specialty Group)

Room: *Maine, Marriott, Fifth Floor* (Paper Session)

ORGANIZER(S): Jason Dittmer, University College London;

Anna Feigenbaum, Bournemouth University

CHAIR(S): Jason Dittmer, University College London

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**1:20** Anna Feigenbaum\*, Bournemouth University, *Tear Gas and the 'Benevolent' British Empire: The Geopolitics of Lethal Lethality in Interwar Colonial Management.*

**1:40** Alex Mankoo\*, University College London, *Teargas to "Train the Public Mind": Gas Tests in World War II Britain.*

**2:00** Philipp Olbrich\*, University of Groningen, *The Politics of Satellite Observation: Exploring the Intelligence Posture Towards North Korea.*

**2:20** Ian Slesinger\*, University of Birmingham, *"Now, you're protected!": Techno-scientific management and the assemblage of state security in the case of Israel's Iron Dome.*

Discussant(s): Jason Dittmer, University College London

**3497. Conservation Law Enforcement I: Policing Conservation Areas and the Trade in Wildlife and Forest Products (Sponsored by Cultural and Political Ecology Specialty Group, Animal Geography Specialty Group)**

*Room:* Massachusetts, Marriott, Fifth Floor (Paper Session)

ORGANIZER(S): Francis Masse, York University; William Moreto, University of Central Florida

CHAIR(S): William Moreto, University of Central Florida

**1:20** Meredith L. Gore, PhD\*, U.S. Department Of State; Lee R. Schwartz\*, U.S. Department of State, *Using geography and conservation criminology to enhance wildlife law enforcement.*

**1:40** Stephen F Pires, Assistant Professor\*, Florida International University; Justin Kurland, Postdoctoral Associate, Rutgers University; Nerea Marteache, Assistant Professor, California State University - San Bernardino, *The Spatial Pattern of Redwood Burl Poaching Incidents: Implications for Prevention.*

**2:00** Francis Masse\*, York University, *Protected Area Integrity and Space-Time Compression in the Bush: The Anatomy of Anti-Poaching.*

**2:20** William D Moreto, Ph.D\*, University of Central Florida; Jacinta M Gau, Ph.D, University of Central Florida; Eugene A Paoline, Ph.D, University of Central Florida; Rohit Singh, WWF; Michael Belecky, WWF; Barney Long, Ph.D, Global Wildlife Conservation, *Ranger Perceptions in Asia.*

**2:40** Xolani Nicholus Funda, Mr\*, SANParks; Xolani Nicholus Funda, Mr, SANParks, *Fighting Wildlife Crime in Protected areas: The Kruger National Park and anti-poaching operation.*

**3498. Geographies of Ecosystem Services: From Maps to Policy Implementation (Sponsored by Geographic Information Science and Systems Specialty Group, Remote Sensing Specialty Group, Spatial Analysis and Modeling Specialty Group)**

*Room:* New Hampshire, Marriott, Fifth Floor (Paper Session)

ORGANIZER(S): Muna Shah, University of Texas At Dallas; Anthony Ravindra Cummings, University of Texas at Dallas

CHAIR(S): Anthony Ravindra Cummings, University of Texas at Dallas

**1:20** Sayyida C. Ali, Ms.\*, The University of the West Indies - St Augustine; Junior Darsan, Dr., University of the West Indies, St. Augustine, *Sustainable ecosystem based management of a principal leatherback turtle habitat in Grande Riviere, Trinidad, West Indies..*

**1:40** Ozlem Edizel\*, Middlesex University/University of Westminster, *Towards Hydrocitizenship: Mapping Water Heritage in the UK.*

**2:00** Marc Metzger\*, University of Edinburgh; Anja Liski, The University of Edinburgh; Aster de Vries Lentsch, The University of Edinburgh; Louise Sing, The University of Edinburgh, *Understanding societal visions for future land use in Europe.*

**2:20** Sai Ma\*, McGill University; Jiangfeng Li, China University

of Geosciences; Brian E Robinson, McGill University, *Bringing ecosystem services into land use planning: case study in Hubei Province of China.*

**2:40** Muna Shah\*, University of Texas At Dallas; Anthony Cummings, The University of Texas at Dallas, *How does plant attributes affect spatial distribution of multiple uses across space? An ecosystem service approach.*

**3499. The relationships between airport-driven impacts and urban areas' social-spatial patterns 1 (Sponsored by Transportation Geography Specialty Group)**

*Room:* Vermont, Marriott, Fifth Floor (Paper Session)

ORGANIZER(S): Frederic Dobruszkes, Brussels University (ULB); Andrew R. Goetz, University of Denver

CHAIR(S): Andrew R. Goetz, University of Denver

**1:20** Evan McDonough\*, University of Luxembourg, *Aircraft noise and trajectories of urbanization: Governance of the urban-airport interface in London and the South-East of England.*

**1:40** Radoslaw Trojanek\*, Poznan Univeristy of Economics and Business; Sonia Huderek-Glapska, Poznan Univeristy of Economics and Business; Justyna Tanas, Poznan Univeristy of Economics and Business, *The Impact of Aircraft Noise on Poznan Residential Property Market.*

**2:00** Magdalena Haddas, prof, University of Silesia, Katowice, Poland; Jan Konowalczyk, dr, University of Economics in Katowice, Poland; Michal Gluszek, dr, Cracow University of Economics, Poland; Tomasz Ramian, dr\*, University of Economics in Katowice, *Airport vicinity - a blessing or a curse? Paradoxes of calculating loss of value for residential properties.*

**2:20** Mattia Cattaneo, University of Bergamo; Paolo Malighetti, University of Bergamo; Chiara Morlotti\*, University of Bergamo; Renato Redondi, University of Bergamo, *The effects of airports' activity on population density at an urban level.*

**2:40** Frederic Dobruszkes\*, Brussels University (ULB); Timothy Denis, Brussels University (ULB), *A serious spatial mismatch: Comparing noise contours and protests against aircraft noise in Brussels, Belgium.*

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Poster Sessions for Friday are located on pages 242-251.

**3501. Mapping Flexibly 3: Author Meets Critics, Jill Desimini and Charles Waldheim's Cartographic Grounds (Sponsored by Cartography Specialty Group)**

**Room:** Room 101, Hynes, Plaza Level (Panel Session)  
 ORGANIZER(S): Eric M. Huntley, University of Kentucky  
 CHAIR(S): Eric M. Huntley, University of Kentucky  
 Introducer: Matthew W. Wilson  
 Panelists: Zulaikha Ayub; William Rankin, Yale University; Robert Gerard Pletrusko, Harvard University - CAMBRIDGE, MA; Maria Arquero De Alarcon, University of Michigan; Jill Desimini, Harvard University

**3502. Organizing Against the End of the World II: Envisioning Geocommunist Futures (Sponsored by Socialist and Critical Geography Specialty Group)**

**Room:** Room 102, Hynes, Plaza Level (Panel Session)  
 ORGANIZER(S): Harlan Morehouse, University of Vermont  
 CHAIR(S): Harlan Morehouse, University of Vermont  
 Discussant(s): Jesse Goldstein, Virginia Commonwealth University; Arun Saldanha, University of Minnesota - Minneapolis  
 Panelists: Stephanie Wakefield, CUNY Graduate Center; Rory Rowan, University of Zurich

**3503. Colin Flint's "Geopolitical Constructs The Mulberry Harbours, World War II, and the Making of a Militarized Transatlantic" Panel Discussion**

**Room:** Room 103, Hynes, Plaza Level (Panel Session)  
 ORGANIZER(S): Lorraine Dowler, Penn State University  
 CHAIR(S): Lorraine Dowler, Penn State University  
 Panelists: Jason Dittmer, University College London; Klaus Dodds, Royal Holloway, University of London; Alexander B. Murphy, University of Oregon; Nicole Laliberte, University of Toronto - Mississauga; James A. Tyner, Kent State University; Colin Flint, Utah State University

**3504. Rethinking State Theory in an Urban World I**

**Room:** Room 104, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): Julie-Anne Boudreau, INRS-Montreal; Christian Haid, Center for Metropolitan Studies, Technical University Berlin  
 CHAIR(S): Julie-Anne Boudreau, INRS-Montreal  
**3:20** D. Asher Ghertner\*, Rutgers University, *The State Outside Itself: Topological Twists in Informal Delhi's State Spaces*.  
**3:40** Martin Jones\*, University of Sheffield; Gordon MacLeod\*, University of Durham, *Integral States in an Urbanizing World: A Strategic-Relational Approach Revisited*.  
**4:00** Joe Painter\*, Durham University, *Stateness, urban politics and social innovation*.  
 Discussant(s): Diane Davis, Harvard University

**3505. Refugees, asylum seekers, and IDPs (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme)**

**Room:** Room 105, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): Mainstreaming Human Rights  
 CHAIR(S): Annette Spellerberg  
**3:20** Viktoriya Pantyley\*, Maria Curie-Sklodowska University; Irina Melnik, Luhansk National Taras Shevchenko University (city Starobilsk), *Human Capital of Child Population in the Face of Hidden War: Comparative Analysis of Eastern and Western Regions of Ukraine*.  
**3:40** Jamon Van Den Hoek\*, Oregon State University; Paulo Murillo-Sandoval, Oregon State University; Alan Devenish, Oregon State University; Megan Chellew, Oregon State University; Ryan Crumley, Oregon State University; Stephanie Ichien, Oregon State University;

Tyler Harris, Oregon State University; Robert Kennedy, Oregon State University; David Wrathall, Oregon State University, *The Refugee Archipelago: A satellite image time series assessment of the environmental marginality of 922 global refugee camps*.

**4:00** Lajos Boros\*, University of Szeged, *Refugees, diversity and the politics of fear in Hungary*.

**4:20** Jussi S. Jauhiainen\*, University of Turku, *Best Practices and Governance of Asylum Seeking. The Case of Finland*.

**4:40** Annette Spellerberg\*, University of Kaiserslautern, *Refugees in Germany: Spatial Patterns and Local Challenges*.

**3506. Brexit and the City: Financial geography after the UK's EU referendum (sponsored by the Global Network on Financial Geography)**

**Room:** Room 107, Hynes, Plaza Level (Panel Session)  
 ORGANIZER(S): Sarah Hall, University of Nottingham; Dariusz Wojcik, School of Geography and the Environment, Oxford University  
 CHAIR(S): Sarah Hall, University of Nottingham  
 Panelists: Gordon L. Clark, Smith School of Enterprise and the Environment; Sabine Dörny, University of Oxford; Ewald Engelen; Fenghua Pan, Beijing Normal University; Dariusz Wojcik, School of Geography and the Environment, Oxford University; Karen Lai, National University of Singapore; Jane S. Pollard, Newcastle University; Youssef Cassis, European University Institute; Sarah Hall, University of Nottingham

**3507. SAM Student Paper Competition II (Sponsored by Spatial Analysis and Modeling Specialty Group)**

**Room:** Room 108, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): Eun-hye Enki Yoo, University At Buffalo (SUNY)  
 CHAIR(S): Eun-hye Enki Yoo, University At Buffalo (SUNY)  
**3:20** Alex K Smith, B.E.S.\*, University of Waterloo; Derek T Robinson, Ph.D., University of Waterloo, *Effects of spatial and thematic resolution by classification algorithm on land cover and land use classification*.  
**3:40** Xin Feng\*, University of California, Santa Barbara; Alan T. Murray, University of California, Santa Barbara, *Heterogeneous Voronoi diagram*.  
**4:00** Cody Schank\*, University of Texas, *Using a Novel Model Approach to Assess the Distribution and Conservation Status of the Endangered Baird's Tapir*.  
**4:20** Ashkan Gholamialam\*, University of Missouri - Columbia; Timothy C. Matisziw, University of Missouri - Columbia, *Modeling Alternative Routes for Bicyclists*.  
**4:40** Thurlough Martin Smyth\*, Stony Brook University; Sung-Gheel Jang, PhD, Stony Brook University, *Geospatial Analysis of Civil Violence during the Egyptian Revolution of 2011*.

**3508. Geopolitical Implications of the Military Tactics of Israel/Judah (Past, Present, and Future) and Their Ramifications on the Middle East Today (Sponsored by Military Geography Specialty Group, Bible Geography Specialty Group)**

**Room:** Room 109, Hynes, Plaza Level (Panel Session)  
 ORGANIZER(S): William A. Dando, Indiana State University  
 CHAIR(S): Bruce R. Crew, Independent Scholar  
 Panelists: Bruce R. Crew, Independent Scholar; William A. Dando, Indiana State University; Gordon Franz; Perry Phillips; Elizabeth Nicole DePue, Jerusalem University College

**3509. Relational Ruralities 1: Networks, connections, and flows (Sponsored by Rural Geography Specialty Group, Population Specialty Group, European Specialty Group)**

**Room:** Room 110, Hynes, Plaza Level (Paper Session)



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ORGANIZER(S): Peter B. Nelson, Middlebury College; Pierre Pistre, Université de Limoges GEOLAB; Martin Phillips, University Of Leicester

CHAIR(S): Peter B. Nelson, Middlebury College

**3:20** Martin Phillips\*, University Of Leicester, *Relationality in the Study of Rural Gentrification: Imprints from Comparative Research.*

**3:40** Darren P Smith, Professor\*, Loughborough University, *Geographies of rural gentrification: a relational social class approach.*

**4:00** PIERRE PISTRE\*, University of Limoges Geolab; Peter Nelson, Middlebury College; Darren Smith, Loughborough University; Chloe Kinton, Loughborough University; Julien Dellier, University of Limoges Geolab; Frederic Richard, University of Limoges Geolab, *Relational ruralities in the daily life: commuting to urban spaces and rural gentrification through a cross-national exploration (France, UK, USA).*

**4:20** Lori Hunter\*, University of Colorado Boulder; Miriam Counterman, University of Colorado Boulder; Myron Gutmann, University of Colorado Boulder, *Tiny Town Trends and Transitions: Predictors and Implications.*

**4:40** John Cromartie\*, USDA, *Real Estate Investment and Disinvestment in Rural America and its Impact on Housing Affordability.*

## **3510. Cultural Geography Specialty Group Marquee Address by Anne Whiston Spirn: "Restoring Nature, Rebuilding Community: The West Philadelphia Landscape Project, 30 years of Action Research" (Sponsored by Cultural Geography Specialty Group)**

Room: Room 111, Hynes, Plaza Level (Panel Session)

ORGANIZER(S): Weronika A. Kusek, Northern Michigan University

CHAIR(S): Weronika A. Kusek, Northern Michigan University

Introducer: Weronika A. Kusek

Panelists: Anne Whiston Spirn, MIT

## **3511. Contested Commodities III: Windows into Globalizing Political-Economic Processes of Valuation (Sponsored by Cultural and Political Ecology Specialty Group, Geographic Perspectives on Women Specialty Group, Economic Geography Specialty Group)**

Room: Room 200, Hynes, Second Level (Panel Session)

ORGANIZER(S): Emily Rosenman, University of British Columbia - Vancouver, BC; Rosemary-Claire Collard, Concordia University; Dan Cohen, University of British Columbia

CHAIR(S): Caitlin Henry, University of Toronto

Discussant(s): Caroline Faria, University of Texas - Austin

Panelists: Leigh Johnson, University of Oregon; Emily Rosenman, University of British Columbia - Vancouver, BC; Miranda Joseph, University of Arizona; Emily Gilbert, University of Toronto; Rajyashree Reddy, University of Toronto

## **3512. Working Toward a Sustainable Arctic (Sponsored by Polar Geography Specialty Group)**

Room: Room 201, Hynes, Second Level (Paper Session)

ORGANIZER(S): Forrest Leanna Melvin, George Washington University

CHAIR(S): Forrest Leanna Melvin, George Washington University

**3:20** Hanna Lempinen\*, Arctic Centre, University of Lapland, *Oil and Gas for the 'Energy-Hungry World', Jobs and Income for the Region? The 'Social' and the Arctic Energy Concern.*

**3:40** Siri Veland\*, Brown University; Amanda Lynch, Brown University - Providence, RI; Michael Goldstein, Babson College; Todd Arbetter, Brown University - Providence, RI, *Human-natural system transformations*

*at the Arctic ice edge: Can science and policy align to reduce costs and confer benefits?.*

**4:00** Charles J. Kelly\*, The Cuny Center, *Changing Climate, Changing Threats: Climate Change and Disasters on the Arctic.*

**4:20** Gleb Kraev, Center of Forest Ecology and Productivity of the Russian Academy of Sciences; Jessica K. Graybill\*, Colgate University; Andrey Petrov, University of Northern Iowa; Andrey Dolgikh, Institute of Geography of the Russian Academy of Sciences; Aleksandr Pochikalov, Institute of Geography of the Russian Academy of Sciences, *Tundra tracks: Carbon exchange response to ATV disturbance in Arctic Russia.*

## **3513. Sustainability Theory, Visions, and Assessments of Progress**

Room: Room 202, Hynes, Second Level (Paper Session)

ORGANIZER(S): Sandra Jo Garren, Hofstra University

CHAIR(S): Sandra Jo Garren, Hofstra University

Introducer: Sandra Jo Garren

**3:25** Craig F. Thomas\*, Salem State University, *The Deep Roots of Sustainability and Interdisciplinary Thinking.*

**3:40** Elizabeth M Cook\*, Instituto de Ciencias Ambientales y Evolutivas, Universidad Austral de Chile, Valdivia, Chile; Olga Barbosa, Instituto de Ciencias Ambientales y Evolutivas, Universidad Austral de Chile, Valdivia, Chile; Melissa J Davidson, Julie Ann Wrigley Global Institute of Sustainability, Arizona State University, Tempe, AZ; Nancy B Grimm, School of Life Sciences, Arizona State University, Tempe, AZ; David M Iwaniec, Julie Ann Wrigley Global Institute of Sustainability, Arizona State University, Tempe, AZ, *Envisioning future urban sustainability and resilience through co-developed social-ecological-technological scenarios.*

**3:55** Brita Hermelin\*, Linköping university, *How visions for sustainable growth is adopted for strategic planning among second- rank cities in Sweden - a decentred account of policy, governance and pathways.*

**4:10** Sandra Jo Garren, Ph.D.\*, Hofstra University, *Measuring regional sustainability: Sustainability Scorecard in Long Island, New York.*

**4:25** Matthew C Cohen, Ph.D.\*, Furman University, *A Framework for Urban Sustainability Assessment Based on a Systematic Literature Review.*

Discussant(s): Sandra Jo Garren, Hofstra University

## **3514. Keynote by Hon. Sec. Ronald L. Walker, Massachusetts Secretary of Labor: Massachusetts's Workforce Investment Programs and AAG Emerging Workforce Scholars Recognition Ceremony (Sponsored by AAG Careers and Professional Development Theme)**

Room: Room 203, Hynes, Second Level (Panel Session)

ORGANIZER(S): Mark Revell, American Association of Geographers; Drew Lehman, Drew Lehman Environment and Education

CHAIR(S): Drew Lehman, Drew Lehman Environment and Education

## **3515. Professional Development in Geography Education: Geospatial Technologies, Spatial Thinking, and Geographic Inquiry (Sponsored by AAG Careers and Professional Development Theme, Geography Education Specialty Group)**

Room: Room 204, Hynes, Second Level (Paper Session)

ORGANIZER(S): Injeong Jo, Texas State University; Jung Eun Hong, University of West Georgia

CHAIR(S): Injeong Jo, Texas State University

**3:20** Jung Eun Hong\*, University of West Georgia, *GIS Professional Development Models for In-service Teachers.*

**3:33** Larianne Collins\*, University of South Carolina, *A Professional Development Model for Integration of*



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## Geospatial Technology.

- 3:46** James F. Petersen\*, Texas State University; Maggie Hutchins, Texas Alliance for Geographic Education, Texas State University, *Integrating Esri Digital Story Maps with Giant Traveling Maps.*
- 3:59** Injeong Jo\*, Texas State University, *Inquiry-based World Geography with Web-based GIS: A Case of Online Professional Development.*
- 4:12** Neiset Bayouth\*, Rutgers University, *City, nature, movement and cultures as texts: reincorporating and reemphasizing geography in U.S. Classrooms.*
- 4:25** Rafael Miguel González\*, University of Zaragoza (Spain), *Youthmetre: geography education, informal learning and spatial imbalances in Europe.*
- Discussant(s): Joseph J. Kerski, Esri; Sarah Witham Bednarz, Texas A&M University

## 3516. Strategies for Thriving as a Stand-Alone Geographer (Sponsored by AAG Careers and Professional Development Theme, Stand-Alone Geographers Affinity Group)

- Room:* Room 205, Hynes, Second Level (Panel Session)
- ORGANIZER(S): Amy E. Potter, Armstrong State University
- CHAIR(S): Amy E. Potter, Armstrong State University
- Panelists: Jess C. Porter, University of Arkansas at Little Rock; Denise Goerisch, University of Wisconsin; Dawn M. Drake, Missouri Western State University; Jacqueline A. Housel, Sinclair College; Brian E. Johnson, University of Alabama at Birmingham; Richard S. Kujawa, Saint Michael's College, Vermont

## 3517. Race, Place and Violence: Historical and Contemporary Issues of Memory II (Sponsored by Cultural Geography Specialty Group)

- Room:* Room 206, Hynes, Second Level (Paper Session)
- ORGANIZER(S): Joshua F. Inwood, Pennsylvania State University; Aretina Rochelle Hamilton, University of Kentucky; James A. Tyner, Kent State University
- CHAIR(S): Kenneth E. Foote, University of Connecticut
- 3:20** Willie Wright\*, UNC Department of Geography, *As above, So, below: Reading anti-Black Violence into Environmental Racism.*
- 3:40** Doug Allen, Florida State University; Joseph Pierce, PhD, Florida State University; Mary Lawhon, PhD, Florida State University, *Performative Place-Making: Claiming Space and Expressing Alternative Visions of Race and Place.*
- 4:00** Jordan Paul Brasher\*, University of Tennessee; Derek H. Alderman\*, University of Tennessee, *On the Violence that Place Naming and Renaming Does: The Unfinished Memory-Work of Anti-Racism in America's Commemorative Campus Landscape.*
- 4:20** Deborah G. Martin\*, Clark University, *Urban geography's racial state: grappling with urban theory.*
- 4:40** Matthew Cook\*, Eastern Michigan University, *Unfinished geographies: Women's roles in shaping African American historical counter narratives.*

## 3519. Water Quality Assessment and Markets

- Room:* Room 210, Hynes, Second Level (Paper Session)
- ORGANIZER(S): Program Committee
- CHAIR(S): Jiayong Liang, The Ohio State University
- 3:20** Francis Koti\*, University of North Alabama, *Convulsed yet Thriving: Water Market Systems in Peri-Urban Towns in East Africa.*
- 3:40** Meng Ding\*, Kansas State University; Jida Wang, Kansas State University; Chunqiao Song, University of California, Los Angeles; Yongwei Sheng, University of California, Los Angeles; Takuto Urano, Kansas State University; Colin Bailey, Kansas State University; Blake Walter, Kansas State University; Pedro J. Satori, Universidade Federal de Lavras, Brazil, *Considering Water Quality in Global Lake Inventory: Freshwater*

## or Saline?.

- 4:00** Jiwei Li\*, University of Massachusetts - Amherst; Qian Yu, University of Massachusetts - Amherst; Yong Q. Tian, Central Michigan University, *Colored Dissolved Organic Matters Spatio-temporal Variations in Lake Water Observed with Landsat-8 Operational Land Imager (OLI) Sensors.*
- 4:20** Jiayong Liang\*, The Ohio State University; Desheng Liu, Dr., The Ohio State University, *Water index blending of optical images.*

## 3520. Physical Geography Poster Session I (Sponsored by Routledge)

- Posters for this session can be found on pages 245-251.
- Room:* Hall C, Hynes, Second Floor (Poster Session)
- This session is a continuation of the previous timeslot, 3420.

## 3521. GeoCapabilities: Developing Teachers and Curriculum Leaders (Sponsored by International Network for Learning & Teaching Geography in Higher Education (INLT), Geography Education Specialty Group)

- Room:* Room 301, Hynes, Third Level (Panel Session)
- ORGANIZER(S): Michael N. Solem, American Association of Geographers
- CHAIR(S): Michael N. Solem, American Association of Geographers

## 3523. Hydroclimatology II

- Room:* Room 303, Hynes, Third Level (Paper Session)
- ORGANIZER(S): Natalie Teale, Rutgers University
- CHAIR(S): Natalie Teale, Rutgers University
- 3:20** Adam W. Burnett\*, Colgate University; Arthur N. Samel, Bowling Green State University; Jason Stowers, Bowling Green State University, *Environmental Conditions Associated with Large Lake-Effect Snow Events in the Tug Hill Plateau Region of New York State.*
- 3:40** Johnathan P. Kirk\*, Kent State University, *Investigating Moisture Sources for Large Precipitation Events in the Upper Colorado River Basin.*
- 4:00** Karly R. Schmidt\*, University of North Carolina - Chapel Hill; Erika K. Wise, Department of Geography, University of North Carolina - Chapel Hill; Adam Z. Csank, Department of Geography, University of Nevada - Reno; Stephanie A. McAfee, Department of Geography, University of Nevada - Reno, *Oxygen Isotopes in Precipitation as Indicators of Storm-Track Trajectories in the Columbia River Basin.*
- 4:20** Natalie Teale\*, Rutgers University; David Robinson, Ph.D., Rutgers University, *Characterization of moisture transport into the northeastern United States using a self-organizing map methodology.*
- 4:40** Arthur N. Samel\*, Bowling Green State University; Min Xu, Oak Ridge National Laboratory; Xin-Zhong Liang, University of Maryland, *A comparison of three lake models in simulating lake effect snowfall over the U.S. Great Lakes Region.*

## 3524. The 2017 Geographical Review AGS Lecture by Andrea Wulf (Sponsored by American Association of Geographers, Landscape Specialty Group, History of Geography Specialty Group, Conference of Latin Americanist Geographers, Society of Women Geographers, Wiley Publishing)

- Room:* Room 304, Hynes, Third Level (Panel Session)
- ORGANIZER(S): David H. Kaplan, Kent State University
- CHAIR(S): David H. Kaplan, Kent State University
- Introducer: David H. Kaplan
- Panelist: Andrea Wulf

## 3525. Decolonial Geographies of Home/Homelands (Sponsored by Geographic Perspectives on Women Specialty Group)

- Room:* Room 305, Hynes, Third Level (Panel Session)

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ORGANIZER(S): Michelle D. Daigle, University of British Columbia; Margaret Marietta Ramirez, University of Washington, Seattle

CHAIR(S): Michelle D. Daigle, University of British Columbia  
Introducer: Michelle D. Daigle

Discussant(s): Margaret Marietta Ramirez, University of Washington, Seattle

Panelists: Madeline Whetung; Krystal Nandini Ghisyawan, Rutgers University; Hilary Malson, Smithsonian Institution - Anacostia; Yolanda Valencia, University of Washington; Tony Sparks, San Francisco State University; May Farrales, Geography, University of British Columbia; Iyko Day, Mount Holyoke College

## 3527. Teacher professionalization in geography education (Sponsored by AAG Careers and Professional Development Theme)

Room: Room 307, Hynes, Third Level (Paper Session)

ORGANIZER(S): Sandra Sprenger, University of Hamburg; Carina Peter, University of Marburg

CHAIR(S): Carina Peter, University of Marburg

3:20 Jens Christian Benninghaus\*, Universität Hamburg; Kerstin Kremer, Leibniz Institute for Science and Mathematics Education (IPN) at Kiel University; Sandra Sprenger, Universität Hamburg, *Investigating Sustainability Thinking skills through the Mystery-Method.*

3:40 Nina Juliane Scholten\*, University of Hamburg, *Bridging the Gap between Competence and Performance - The Introduction of Noticing into Geography Teacher Education.*

4:00 Okkyong Yoon\*, Cheongju National University of Education; Jongnam Choi, Western Illinois University, *Understanding weather and climate-related concepts.*

4:20 Audrey Mohan, Ph.D.\*, BSCS, *The STeLLA PD Model: A video-based lesson analysis approach.*

4:40 Kevin Czajkowski\*, University of Toledo; David Padgett, Ph.D., Tennessee State University; Peter Garik, Ph.D., Boston University; Svetlana Darche, WestEd; Janet Struble, University of Toledo, *The New GLOBE Program: Engaging students through Hands-on Science Projects.*

## 3528. Perceptions of food (Sponsored by Geographies of Bread and Water in the 21st Century Featured Theme)

Room: Room 308, Hynes, Third Level (Paper Session)

ORGANIZER(S): Bread and Water

CHAIR(S): Yi-Chieh Jessica Lin, National Chengchi University

3:20 Gretchen Lang, MA\*, University of Colorado Boulder, *Possessing Pleasure: embodied difference in the sensory experience of food.*

3:40 Raphaël Stephens\*, *Is The Food Assembly an Alternative Food Network and if so, what sociotechnical food regime transition does it embody? A story of food and uberisation in the Paris metropolitan region through the lens of the Multi Level Perspective.*

4:00 Karin Schanes\*, WU- Vienna University of Economics and Business, *Food Waste Fighters: A Qualitative Study On The Lived Experiences Of Food Sharing Practitioners In Austria.*

4:20 Kristin Dypedokk\*, University of Oslo, *Sustainable Diets: Bridging policy for food systems, health and the environment?*

4:40 Yi-Chieh Jessica Lin, Ph.D.\*, National Chengchi University, *The Discourses of Eat Low Carbon Food Campaigns in Japan and Taiwan.*

## 3529. The Materiality of Infrastructure

Room: Room 309, Hynes, Third Level (Paper Session)

ORGANIZER(S): Dylan Brady, University of Oregon

CHAIR(S): Dylan Brady, University of Oregon

3:20 Lucile Garçon\*, *Roots, grafts, tubers and seeds: vegetal material as a critical research object in geography.*

3:40 Stephanie Sodero\*, Lancaster University/University of British Columbia, *Water and blood: Tracing mobile humanitarian materialities.*

4:00 Alex Wafer, Dr\*, Wits University, *Ruins of State: the materiality of state power in post-apartheid South Africa.*

4:20 Dylan Brady\*, University of Oregon, *Learning Rail Space: The Materiality of Discourse in the Chinese Rail Network.*

Discussant(s): Hermen Smit, UNESCO-IHE

## 3530. Melinda Meade Distinguished Lecture (Sponsored by Health and Medical Geography Specialty Group)

Room: Room 310, Hynes, Third Level (Paper Session)

ORGANIZER(S): Eric M. Delmelle, University of North Carolina at Charlotte; Michael J. Widener, University of Toronto; Mei-Po Kwan, University of Illinois at Urbana-Champaign

CHAIR(S): Eric M. Delmelle, University of North Carolina at Charlotte

3:20 Mei-Po Kwan\*, University of Illinois at Urbana-Champaign, *A Spatiotemporal Perspective on Individual Context and Exposure.*

## 3531. New Geographies of the American West I: Updating the Regional Paradigm (Sponsored by Cultural and Political Ecology Specialty Group, Rural Geography Specialty Group, Human Dimensions of Global Change Specialty Group)

Room: Room 311, Hynes, Third Level (Panel Session)

ORGANIZER(S): Hannah Gosnell, Oregon State University; Eric P. Perramond, Colorado College

CHAIR(S): Randall K. Wilson, Gettysburg College

Discussant(s): Hannah Gosnell, Oregon State University

Panelists: Julia Haggerty, Montana State Univ; William Wyckoff, Montana State University; Eric P. Perramond, Colorado College; Colleen C. Hiner, Texas State University

## 3532. How Geography Can Inform Social Change And Political Movements: Example Of How Geospatial Analysis Can Describe Standing Rock Human Rights Violations For Indigenous People And Water Security Threat To The Missouri River Basin (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme)

Room: Room 312, Hynes, Third Level (Panel Session)

Organizer and Chair: Jennifer Veilleux, Florida International University

Panelists:

Carl M. Sack, University of Wisconsin - Madison;

Candice Michelle Landry, Women's Action Research Network;

Kirk Lange, University of Massachusetts - Amherst;

Jennifer Veilleux, Florida International University

Join a panel discussion with a team of Professional Geographers that are working together with Tribes to describe human rights violations and water security threats from construction of the Dakota Access Pipeline to Indigenous People's sacred lands and water. The stand at Standing Rock is one of the most pressing issues for contemporary America. The situation highlights issues of human rights, water security, racism, poverty, political complexity, colonialism, militarized police, oil infrastructure, climate change, social movements, and the future of America. Through tools of geography with an understanding of the spatio-temporal relationships between people and resources, a team of scientists mapped and modeled the Missouri River Basin in an effort to assist the Tribes with scientific data to back up their claims on threats to their way of life, historical Treaty agreements, and collective identity. This year geography's role in preserving human rights is included as one of the main themes of the AAG meeting and this panel offers an example of how geography helps shape narratives from a scientific data-based objective place to address emotional identity-based risk position and human rights violations for the Indigenous Tribes of America. The situation in Standing Rock is

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reflective of Indigenous People's struggles around the world as our planets remaining water resources and land resources are modified and contaminated in the name of modernity. This has been exemplified by the solidarity that Indigenous People from around the globe pledged toward Standing Rock Sioux Tribe.

## 3533. Historical and Contemporary Topics in Military Geography II (Sponsored by Military Geography Specialty Group)

Room: Room 313, Hynes, Third Level (Paper Session)

ORGANIZER(S): Andrew Lohman

CHAIR(S): Richard L. Wolfel, US Military Academy

3:20 Adam Moore\*, UCLA, *Military contracting and the labor of force projection.*

3:40 Claire Y Weber\*, University of Utah, *The Cultural and Ideological Context of Terrorism and Violent Extremism in Nigeria.*

4:00 Matthew Miller\*, University of Tennessee, *Understanding the vulnerability of the Population of Afghanistan under multiple natural and anthropogenic risks with an indicator-based analysis.*

4:20 Richard L. Wolfel\*, US Military Academy, *Seeing the Forest Through the Trees: Socio-cultural Analysis in Dense Urban Areas.*

## 3538. Uncertainty in context and practices (Sponsored by Uncertainty and Context in Geography and GIScience Featured Theme)

Room: Independence East, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Uncertainty and Context Theme

CHAIR(S): A-Xing Zhu, Univ of Wisconsin

3:20 Timothy F. Trainor\*, U.S. Bureau Of the Census, *Identifying Geospatial Data Requirements for the Goals, Targets and Indicators of the 2030 Agenda for Sustainable Development.*

3:40 Eva K Andersson, Prof., Dept Human Geography, Stockholm University; Bart Sleutjes, PhD, Netherlands Interdisciplinary Demographic Institute; Rafael Costa, PhD, Vrije Universiteit Brussel; Marcin Stonawski, PgD, Department of Sociology and Human Geography at University of Oslo; Helga A.G. de Valk, Prof., Netherlands Interdisciplinary Demographic Institute; Bo Malmberg\*, Prof., Dept Human Geography, Stockholm University, *Residential segregation of non-European migrants in four European countries: A comparative study.*

4:00 Lindsey Conrow\*, Arizona State University, *Generating Measures of Dynamic Context with Crowdsourced Data.*

4:20 Stacy Doore\*, University of Maine; Kate Beard\*, University of Maine, *Using Boundedness to Reduce Uncertainty in Indoor Scene Descriptions.*

4:40 A-Xing Zhu, University of Wisconsin-Madison; Yan Li, Zhejiang University, *Where to sample more? combining uncertainties from the feature domain and spatial domain for sampling.*

## 3539. Regional Studies - Annual Lecture (Sponsored by Routledge)

Room: Independence West, Sheraton, Second Floor (Panel Session)

ORGANIZER(S): Dieter Franz Kogler, University College Dublin

CHAIR(S): Dieter Franz Kogler, University College Dublin

Introducer: Dieter Franz Kogler

Discussant(s): Helen Lawton Smith, Birkbeck University of London

Panelist: Bjorn T. Asheim

## 3540. Health and place across the life course 2 (Sponsored by Uncertainty and Context in Geography and GIScience Featured Theme)

Room: Liberty B, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Niamh Shortt, University of Edinburgh

CHAIR(S): Niamh Shortt, University of Edinburgh

3:20 Owen Morgan Nicholas, PhD, University College London, *How Valid are Decennial Census Measures of Neighbourhoods in Assessing Neighbourhood Effects?.*

3:40 Lucy Prior\*, University of Bristol, *What's under the 'hood? Neighbourhood effects, mediation and the life course - unpacking the 'black-box'.*

4:00 Timothy Morris\*, University of Bristol; David Manley, University of Bristol, *Examining the effect of early lifecourse neighbourhood effects on health damaging behaviours in adolescence and early adulthood.*

4:20 Nathaniel M. Lewis\*, University of Southampton, *Sexual Minority Health across the Life Course: Age, Place, and Historical Context in the UK, 1990-2012.*

Discussant(s): Niamh Shortt, University of Edinburgh

## 3541. Challenges and Opportunities for Geospatial Analysis in Health Cohorts (Sponsored by Uncertainty and Context in Geography and GIScience Featured Theme)

Room: Liberty C, Sheraton, Second Floor (Panel Session)

ORGANIZER(S): David Berrigan, U.S. National Institutes of Health - National Cancer Institute

CHAIR(S): David Berrigan, U.S. National Institutes of Health - National Cancer Institute

Panelists: Qian Xiao, University of Iowa; Peter James, Harvard University; Jana Hirsch, University of South Carolina; Francine Laden, Harvard T.H. Chan School of Public Health; David Berrigan, U.S. National Institutes of Health - National Cancer Institute

## 3542. Economic Geography XIII - Migration, Labor Mobility and Wages - Outlook and Gaps (Sponsored by Economic Geography Specialty Group)

Room: Back Bay Ballroom A, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Dieter Franz Kogler, University College

Dublin; Pierre-Alexandre Balland, Utrecht University;

Peter Kedron, Oklahoma State University

CHAIR(S): Thomas Kemeny, University of Southampton

3:20 Andrea Morrison\*, Utrecht University; Andrea Morrison\*, Utrecht University, *Migration and Innovation in the ages of mass migration.*

3:40 Abigail Cooke\*, University At Buffalo, *Uneven Geography of "Bright Outlook" Occupations in the U.S..*

4:00 Dario Diodato\*, Utrecht University; Frank Neffke, Harvard University, *Return Migrants and their Impact on Employment and Wages in Mexico.*

4:20 Jamie Michelle Goodwin-White\*, UCLA, *"Go West, Young Woman?": The Geography of the Gender Wage Gap through the Great Recession.*

4:40 Hilal Erkus Ozturk\*, Akdeniz University, *Labor Mobility, Inter-Firm Networks, and Differentiation of Hotels and Restaurants in Antalya.*

## 3544. Critical Geographies of Energy Infrastructure IV: Inequality, Violence and (Dis)Connection (Sponsored by Cultural and Political Ecology Specialty Group, Energy and Environment Specialty Group)

Room: Constitution A, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Anthony Levenda, Arizona State University; Laura Tozer, University of Toronto; Sarah E. Knuth, University of Michigan

CHAIR(S): Ingrid Behrsin

3:20 Mary Finley-Brook\*, University of Richmond, *Racial Violence and Deadly Energy in the Americas.*

3:40 Veronica Isabel Jacome\*, University of California, Berkeley, *Access at the Fringe: precarity within electric services in Unguja, Tanzania.*

4:00 Sophie L. Van Neste\*, University of Montreal, *Energy politics and the 'ferocious love for place': complex entanglements for activists against pipelines.*

Discussant(s): Jennifer Baka, Pennsylvania State University



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## 3545. Sustainable Territories-II? Local and Transnational Territorializations for Environmental Governance (Sponsored by Political Geography Specialty Group, Cultural and Political Ecology Specialty Group, Development Geographies Specialty Group)

**Room:** Constitution B, Sheraton, Second Floor (Panel Session)  
 ORGANIZER(S): Karl S. Zimmerer, Pennsylvania State University; Jia-Ching Chen, University of California  
 CHAIR(S): Karl S. Zimmerer, Pennsylvania State University  
 Discussant(s): Nathan F. Sayre, University of California, Berkeley; Jia-Ching Chen, University of California; Karl S. Zimmerer, Pennsylvania State University  
 Panelists: Ramzi Tubbeh, Pennsylvania State University; Abigail Martin; Teo Ballve, Colgate University

## 3548. Labor narratives and urban informality in the global South (Sponsored by Urban Geography Specialty Group, Africa Specialty Group, Development Geographies Specialty Group)

**Room:** Beacon D, Sheraton, Third Floor (Paper Session)  
 ORGANIZER(S): Daniel E. Esser, American University; Jordanna Matlon, American University  
 CHAIR(S): Daniel E. Esser, American University  
 3:20 Jordanna Matlon\*, American University, *Abidjan: A Story of Racial Capitalism*.  
 3:40 Harry Pettit\*, London School of Economics, *Hopeful City: producing consent through the promise of mobility in Cairo*.  
 3:55 Aman Luthra\*, Kalamazoo College, *Competition, entrepreneurship and efficiency: Old and new participants in urban waste collection markets in India*.  
 4:10 Aparna Parikh\*, Pennsylvania State University, *Appearance of authority: role of attire in accessing public space in Mumbai, India*.  
 4:25 Liz Mason-Deese\*, University of Mary Washington, *From Unemployment to Work with Dignity in the Buenos Aires Urban Periphery*.  
 Discussant(s): Daniel E. Esser, American University

## 3549. Critical urban theory in the 'urban age': Voices from another planet II (Sponsored by Geographic Perspectives on Women Specialty Group, Urban Geography Specialty Group, Sexuality and Space Specialty Group)

**Room:** Beacon E, Sheraton, Third Floor (Paper Session)  
 ORGANIZER(S): Natalie Oswin, McGill University; Geraldine J. Pratt, University Of British Columbia  
 CHAIR(S): Geraldine J. Pratt, University Of British Columbia  
 3:20 Anne Bonds\*, University of Wisconsin, Milwaukee; Jenna M. Loyd\*, University of Wisconsin-Milwaukee, *Wacquant's theory of neoliberal urban carcerality and the marginalization of difference*.  
 3:40 Brett Story, Post-Doctoral Fellow\*, CUNY Graduate Center, *The Prison in the City*.  
 4:00 Sara Safransky\*, Vanderbilt University, *Urban land justice: Race, power, and property in Detroit*.  
 4:20 Kate Derickson\*, University of Minnesota, *Urbanization, racialization and the geographies of Reconstruction*.

## 3550. Spatial Inequality, Justice and Policy III: China (Sponsored by China Specialty Group, Asian Geography Specialty Group, Economic Geography Specialty Group)

**Room:** Beacon F, Sheraton, Third Floor (Paper Session)  
 ORGANIZER(S): Yehua Dennis Wei, University of Utah  
 CHAIR(S): Felix Haifeng Liao, University of Idaho  
 3:20 Wen Chen\*, Nanjing Institute of Geography and Limnology, Chinese Academy of Sciences, *Regional integration in the Yangtze River Delta (YRD): a path towards fragmentation or confederation?*.  
 3:40 Weiye Xiao\*, *Spatial mismatch between floating population and job opportunities in Shanghai*.  
 4:00 Li Huang, University of Idaho; Haifeng Felix Liao, University of Idaho, *Understanding regional development mechanisms in Zhejiang, China from 1981*

*to 2013: spMorph and geographical and temporal weighted regression approaches*.

4:20 BEIBEI MA\*, Dongqian Xue; Jing Huang, *Spatial Distribution Characteristics Of Income And Poverty In Xi'an Based On Micro-regional Perspective*.  
 4:40 Hao Huang, Illinois Institute of Technology; Yehua Wei, University of Utah, *The Spatial-Temporal Hierarchy of Inequality in Urban China*.

## 3553. Oceans, Gardens, and Environments

**Room:** Dalton A, Sheraton, Third Floor (Paper Session)  
 ORGANIZER(S): Program Committee  
 CHAIR(S): Briana Berkowitz, Miami University  
 3:20 Hyunjoo JUN\*, Choi jiyeon, *A suitability assessment model of coastal zoning system in KOREA*.  
 3:40 Shachak Peeri\*, NOAA; John E. Nyberg, NOAA; Guillaume Auclert, NOAA; John E. Barber, NOAA; Daniel Morrow, NOAA; Allison Wittrock, NOAA, *Large-scale navigational chart update using data collected during the Super Storm Sandy Disaster Relief efforts*.  
 4:00 Harry F. Lee\*, The University of Hong Kong, *Downscaling and Disaggregating NAO-conflict Nexus in Pre-industrial Europe*.  
 4:20 Briana Berkowitz\*, Miami University, *Home Gardenscapes for the Promotion of Ecological and Cultural Plant Diversity on St. Eustatius, Dutch Caribbean*.

## 3555. Infrastructures Within and Beyond B/Ordered Geographies of the Global South III

**Room:** Hampton A, Sheraton, Third Floor (Panel Session)  
 ORGANIZER(S): Sophie Schramm, Universität Kassel; Prince Karakire Guma, Darmstadt University of Technology; Amiel Bize  
 CHAIR(S): Amiel Bize  
 Panelists: Prince Karakire Guma, Darmstadt University of Technology; Sophie Schramm, Universität Kassel; Swetha Rao Dhananka, Indian Institute for Human Settlements / Development Planning Unit UCL, UK; Tamer Elshayal, Harvard University; Nadine Appelhaus, TU Dortmund University; Morgan Mouton, LATTs - ENPC; Amiel Bize; Jonathan Silver, university of sheffield

## 3556. Perceptions, experiences, and responses to climate-related extreme events - PART 2 (Sponsored by Human Dimensions of Global Change Specialty Group, Hazards, Risks, and Disasters Specialty Group)

**Room:** Hampton B, Sheraton, Third Floor (Paper Session)  
 ORGANIZER(S): Jennifer Marlon, Yale University; Peter D. Howe, Utah State University  
 CHAIR(S): Peter D. Howe, Utah State University  
 3:20 Forrest Scott Schoessow\*, Utah State University; Yajie Li, Utah State University; Emily Esplin, Utah State University; Peter D. Howe, PhD, Utah State University, *Spatial-Temporal Variability of Extreme Heat Vulnerability Across the United States*.  
 3:40 Kelley A. Crews\*, University of Texas - Austin; Kalli F Doubleday, University of Texas at Austin, *Fluid perceptions, rigid responses: Lived experiences and adaptation to flooding and precipitation regimes*.  
 4:00 Terry Cannon\*, Institute of Development Studies, *Three myths in our understanding of disasters, climate change and development*.  
 4:20 Bokjin Roh\*, University of Arizona, *Vulnerability to climate-related hazards in urban areas: A case study of Seoul, South Korea*.  
 4:40 Peter D. Howe\*, Utah State University; Jennifer Marlon, Yale University; Anthony Leiserowitz, Yale University, *Modeling short-term variation in risk perceptions of extreme heat hazards in the U.S.*



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## 3557. **Passing the Torch: The Need to Curate Professional Materials (Sponsored by Retired Geographers Affinity Group)**

*Room:* Gardner A, Sheraton, Third Floor (Panel Session)  
 ORGANIZER(S): William C. Rense  
 CHAIR(S): William C. Rense  
 Panelists: Ronald F. Abler, International Geographical Union;  
 George M. Pomeroy, Shippensburg University; William C. Rense

## 3558. **Political Education for Food Systems Transformation (Sponsored by Cultural and Political Ecology Specialty Group, Geographies of Food and Agriculture Specialty Group)**

*Room:* Gardner B, Sheraton, Third Floor (Paper Session)  
 ORGANIZER(S): Bryan Dale, University of Toronto; David Meek  
 CHAIR(S): David Meek  
 3:20 Charles Levkoe, Dr., Canadian Research Chair in Sustainable Food Systems; Simon Erlich\*, University of Toronto; Sarah Archibald, Meal Exchange, *Critical Education, Food System Transformation and Campus Food Movements in Canada*.  
 3:40 Alana Bowen Siegner\*, Energy and Resources Group, UC Berkeley, *Climate Change Education in Farm to School Programs*.  
 4:00 Joëlle Rondeau\*, Institut national de la recherche scientifique, *'This freak is transforming landscape but is also doing education': Urban agriculture training programs' potential in advancing radical food systems transformations in contemporary urban political economies*.  
 Discussant(s): David Meek

## 3559. **From Appalachia to Ogallala: Honoring Stephen (Steve) E. White (Sponsored by Association of American Geographers)**

*Room:* Fairfax A, Sheraton, Third Floor (Panel Session)  
 ORGANIZER(S): Max Lu, Kansas State University  
 CHAIR(S): Charles W. Martin, Kansas State University  
 Discussant(s): Stanley D. Brunn, University of Kentucky; John A. Harrington, Kansas State University; Lisa M. Butler Harrington, Kansas State University; Richard A. Marston, Kansas State University; M. Duane Nellis, Texas Tech University; Fred M. Shelley, University of Oklahoma; Jason Holcomb, Morehead State University; David E. Kromm, Kansas State University

## 3560. **Speed-Dating with an NSF Program Officer - 2 (Sponsored by AAG Careers and Professional Development Theme)**

*Room:* Fairfax B, Sheraton, Third Floor (Panel Session)  
 ORGANIZER(S): Antoinette WinklerPrins, National Science Foundation  
 CHAIR(S): Thomas J. Baerwald, National Science Foundation  
 Introducer: Sunil Narumalani  
 Discussant(s): Antoinette WinklerPrins, National Science Foundation; Thomas J. Baerwald, National Science Foundation; Holly M. Hapke, National Science Foundation; Cheryl Eavey, National Science Foundation

## 3561. **Uncomfortable theoretical fit--Debating the China model: which frame and what future? (II) (Sponsored by China Specialty Group, Economic Geography Specialty Group)**

*Room:* Jefferson, Sheraton, Third Floor (Paper Session)  
 ORGANIZER(S): Jun Zhang, University of Toronto; Yu Zhou, Vassar College; George C.S. Lin, University of Hong Kong  
 CHAIR(S): Jun Zhang, University of Toronto  
 3:20 Zhiyong Fox Hu\*, The Education University of Hong Kong, *A revanchist city in the making? Economic repositioning, strategic selectivity and the changing politics of migration in Beijing, China*.  
 3:40 June Wang\*, City University of Hong Kong, *Heritage*

*sovereignty: authorisation, territorialisation, engaging the making of Silk Road.*

4:00 Weidong Liu\*, Chinese Academy of Sciences, *China's Belt and Road Initiative: A competition between development models?*

## 3562. **Understanding Chinese capital and labor-2 (Sponsored by China Specialty Group)**

*Room:* Kent, Sheraton, Third Floor (Paper Session)  
 ORGANIZER(S): Xiaobo Su, University of Oregon  
 CHAIR(S): TAO LIN, Shanghai Normal University  
 3:20 TAO LIN\*, Shanghai Normal University, *The Locations of Regional Distribution Centers of the Chinese Courier Firms and Their Competition The Locations of Chinese Express Delivery Companies' Regional Distribution Centers and their Competition Pattern*.  
 3:40 Xin Hong\*, Kent State University, Kent, OH 44242-0001; Jay Lee, Kent State University, Kent, OH 44242-0001; Chenbin Deng, Binghamton University, Binghamton, NY 13902; Pengyan Zhang, College of Environmental and Planning, Kaifeng, Henan, China, *Geographical Variations of Livestock Production in Northern China*.  
 4:00 Xiaofei Chen\*, Key Research Institute of Yellow River Civilization and Sustainable Development, Henan University, China, *The Evolution and Driving Mechanism of Relationship Network Dominated by Native Enterprise: Taking Chery cluster as An Example, China*.

## 3563. **In Honor of Tom Wilbanks (Sponsored by Human Dimensions of Global Change Specialty Group, Association of American Geographers)**

*Room:* Commonwealth, Sheraton, Third Floor (Panel Session)  
 ORGANIZER(S): AAG; Douglas Richardson, American Association of Geographers  
 CHAIR(S): AAG  
 Panelists: Robert W. Kates, Independent Scholar; Douglas Richardson, American Association of Geographers

## 3564. **The Broader Impacts of Our Research: SWIG's 5th Annual Panel (Sponsored by Cultural and Political Ecology Specialty Group, Geographic Perspectives on Women Specialty Group, Graduate Student Affinity Group)**

*Room:* Boylston, Marriott, First Floor (Panel Session)  
 ORGANIZER(S): Kelsey Brain, Pennsylvania State University  
 CHAIR(S): Kelsey Brain, Pennsylvania State University  
 Discussant(s): Jamie L. Winders, Syracuse University; Garrett Graddy-Lovelace, American University School of International Service  
 Panelists: Lesley-Ann Dupigny-Giroux, University of Vermont; Bronwen Powell, Pennsylvania State University; Jerry Shannon, University of Georgia

## 3565. **25 Years of Ethnic Geography Specialty Group-II: Geographies of Race and Ethnicity: Change and Continuity (Sponsored by Population Specialty Group, Urban Geography Specialty Group, Ethnic Geography Specialty Group)**

*Room:* Tremont, Marriott, First Floor (Panel Session)  
 ORGANIZER(S): Madhuri Sharma, University of Tennessee, Knoxville; Carlos Teixeira, University of British Columbia Okanagan  
 CHAIR(S): Madhuri Sharma, University of Tennessee, Knoxville  
 Discussant(s): John Frazier, Binghamton University  
 Panelists: Audrey L. Kobayashi, Queen's University; Orlando Taylor, The Chicago School of Professional Psychology; Heike Alberts, University of Wisconsin-Oshkosh; Stavros T. Constantinou, Ohio State University; James Forrest, Macquarie University; Ana I. Sanchez-Rivera, University of Maryland-College Park; Eugene Tettey-Fio, SUNY-Binghamton

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- 3566. Qualitative Methods in Human Geography, Session A**  
**Room:** *Columbus 1, Marriott, First Floor* (Paper Session)  
 ORGANIZER(S): Heather Maguire, Brock University; Andrew Gerard McCartan, Brock University  
 CHAIR(S): Catherine Jean Nash, Brock University, Department of Geography  
**3:20** Beyhan Farhadi\*, University of Toronto, *Hanging Deep with Data: Virtual Research Methods in e-Learning*.  
**3:40** Rae Rosenberg\*, York University, *Embodying Queerness in Qualitative Research Practices*.  
**4:00** Heather Maguire\*, Brock University; Andrew McCartan, Brock University; Catherine J Nash, PhD, Brock University; Kath Browne, PhD, University of Brighton; Andrew Gorman-Murray, PhD, Western Sydney University, *Balancing pragmatism and messiness: Doing covert research in the field*.  
**4:20** Jeff Rose\*, University of Utah, *Using positionalities to collect, construct, and analyze data in ethnographic inquiry: The politics of class, nature, and homelessness*.  
**4:40** Tyler Sonnichsen\*, University of Tennessee, *Memories of Violence and Qualitative Challenges in Underground Music*.

- 3567. De/Naturalizing Eurasia (Sponsored by Russian, Eurasian Specialty Group, Political Geography Specialty Group)**  
**Room:** *Columbus 2, Marriott, First Floor* (Paper Session)  
 ORGANIZER(S): Jeremy Tasch, Towson University  
 CHAIR(S): Jeremy Tasch, Towson University  
**3:20** May Ee Wong, UC Davis Cultural Studies Graduate Group, *The Global Sustainable City as Global Ecological Model*.  
**3:40** Brian Gareau, PhD\*, Boston College; Damian White, PhD, Rhode Island School of Design; Alan Rudy, PhD, Central Michigan University, *Coalitions amid Environmental Ruin?: An Appraisal of Metabolisms, Socio-natures, and the Future of Critical Environmental Sociology*.  
**4:00** Renée McWhirter\*, York University, *Conservation, Consumption, and Livelihoods in Vietnam: Illuminating contradictions in neoliberalised natures*.  
**4:20** Hosuk Lee\*, University of North Georgia, *Complementarity between Political Ecology and Toponymy with the Case of East Sea*.  
**4:40** Hayley Saul, PhD\*, Western Sydney University, *The role of the museum in Nepal's Anthropocene future: some prospects from the Chaturale Museum of Cuisine project*.

- 3568. Geographies of Disability 2: Social Perspectives (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme, International Research and Scholarly Exchange Committee, Health and Medical Geography Specialty Group, Disability Specialty Group)**  
**Room:** *St. Botolph, Marriott, Second Floor* (Paper Session)  
 ORGANIZER(S): Sandy Wong, University of Illinois at Urbana-Champaign; Andrew Myers, University of Montana; Susanne Zimmermann-Janschitz, University of Graz  
 CHAIR(S): Sandy Wong, University of Illinois at Urbana-Champaign  
**3:20** Stine Hansen\*, McMaster University, *Exploring the Social Geographies of Immigrants with Disabilities: an Intersectional Approach*.  
**3:40** Sylette Henry-Buckmire\*, Stony Brook University, *Physical disability, personal mobility freedom and resistance*.  
**4:00** Emma Nyman\*, Umeå University, *Constrained geographical reach for the mobility disabled*.  
**4:20** Benjamin Patrick Butler\*, University of Toronto, *Encountering disability through airport security practices: security screening as disablement*.  
 Discussant(s): Debanuj DasGupta, University of Connecticut

- 3569. Climate and Environmental Change in the Northeast United States II (Sponsored by Climate Specialty Group, Geomorphology Specialty Group, Water Resources Specialty Group)**  
**Room:** *Regis, Marriott, Third Floor* (Paper Session)  
 ORGANIZER(S): Francis J. Magilligan, Dartmouth College; Jonathan Winter, Dartmouth College; Steven Silvern, Salem State University  
 CHAIR(S): Jonathan Winter, Dartmouth College  
**3:20** Katharine M. Johnson, PhD\*, Earth Resources Technology, Inc.; William B Ouimet, PhD, University of Connecticut, *Anthropocene Landscape Change and Land Use Dynamics in Post-17th Century Southern New England*.  
**3:36** Megan McCusker Hill\*, University of Connecticut; William Ouimet, University of Connecticut, *Upland, hillslope signatures of Anthropocene environmental change in southern New England*.  
**3:52** William Ouimet\*, University of Connecticut, *The Historic Land Use Project: Linking 17th-20th century Land Use, Soil Impacts and Legacy Sediment in Northeastern US*.  
**4:08** Eve Vogel\*, University of Massachusetts - Amherst, *Weaving together science and social science to develop practical policy recommendations for river flood resilience*.  
**4:24** Mary Ann Cunningham\*, Vassar College, *Climate impacts, competition, and the future of Northeastern dairies*.  
**4:40** Elisabeth Levac\*, Bishop's University, *Increasing Trends in Ragweed Pollen in Sherbrooke, Qc. Linked to Above Normal Summer Temperatures*.

- 3570. Legibility Acts and Climate Adaptation 2 (Sponsored by Cultural and Political Ecology Specialty Group, Climate Specialty Group, Water Resources Specialty Group)**  
**Room:** *Northeastern, Marriott, Third Floor* (Paper Session)  
 ORGANIZER(S): Denielle Perry, University of Oregon  
 CHAIR(S): Denielle Perry, University of Oregon  
**3:20** Brian C Chaffin\*, University of Montana, *Adjudication and Tribal Water Rights Settlements as Acts of Climate Adaptation*.  
**3:40** Amy Braun\*, University of North Carolina - Chapel Hill - Chapel Hill, NC, *"Got algae?" Putting marine life to work for sustainability*.  
**4:00** Matthew Neil Fockler\*, Augustana College, *Downriver Again: The legibility of social-ecological change in the Upper Mississippi watershed since the 9-foot channel project*.  
**4:20** Samantha L Hamlin\*, Portland State University, *Lone wolves and copycats: Policy and infrastructure in flood risk and floodplain management*.  
 Discussant(s): Martin W. Doyle, Duke University

- 3571. Transforming urban places: understanding community - III**  
**Room:** *Brandeis, Marriott, Third Floor* (Paper Session)  
 ORGANIZER(S): Charles John Barlow, University of Chicago; Julie Clark, University of Glasgow  
 CHAIR(S): Charles John Barlow, University of Chicago  
**3:20** Szabolcs Fabula\*, University of Szeged, *Different views of neighbourhood diversity - implications for urban research and policy*.  
**3:40** Elnazir Ramadan\*, Sultan Qaboos University, *Participatory Planning in Oman: The role and development of municipal council*.  
**4:00** Berra Topcu\*, University of Massachusetts Amherst, *"Placing" in the Megacity: On Grassroots Mobilization and Collaborative Research in Istanbul*.  
 Discussant(s): Charles John Barlow, University of Chicago

- 3572. Religion and Migration in Asia: Space, Mobilities, Ontology (Sponsored by Geography of Religions and Belief Systems Specialty Group)**

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**Room:** MIT, Marriott, Third Floor (Paper Session)  
**ORGANIZER(S):** Murat Es, Chinese University of Hong Kong; Justin Tse, University of Washington  
**CHAIR(S):** Murat Es, Chinese University of Hong Kong  
**3:20** Murat Es\*, Chinese University of Hong Kong, *Mobility, Religion and Ethnic Difference in Hong Kong*.  
**3:40** Vincent Artman\*, Wayne State University; Alexander Diener, University of Kansas, *Region and Religion*.  
**4:00** Amiram Gonen\*, The Hebrew University of Jerusalem, *Locational Conflicts Over Burial Place*.  
**4:20** Ayda Melika, PhD Candidate\*, University of California, Berkeley, *Political Socialization through Spatial Re-Creation in Contemporary Tehran*.  
**Introducer:** Murat Es  
**Discussant(s):** Justin Tse, University of Washington

## 3573. Critical Geographies of Energy 2: Security and Power in Energy Infrastructure (Sponsored by Human Dimensions of Global Change Specialty Group, Ethics, Justice, and Human Rights Specialty Group, Energy and Environment Specialty Group)

**Room:** Boston University, Marriott, Third Floor (Paper Session)  
**ORGANIZER(S):** Ryan Maurice Katz-Rosene, University of Ottawa; Mia Renauld; Noel Healy, Dept Geography Salem State University  
**CHAIR(S):** Mia Renauld  
**Introducer:** Mia Renauld  
**3:25** Don Alexander, PhD, MCP, RPP, Vancouver Island University, *The Political Economy of Energy Megaprojects: The Case of British Columbia, Canada*.  
**3:45** Peter Forman\*, University of Durham, *Governing Gas: Ontological Projects of Security Governance*.  
**4:05** Yuwan Malakar\*, Energy and Poverty Research Group, UQ Energy Initiative, The University of Queensland, Australia; Chris Greig, Energy and Poverty Research Group, UQ Energy Initiative, The University of Queensland, Australia; Elske van de Fliert, Centre for Communication and Social Change, School of Communication and Arts, The University of Queensland, Australia, *Human Agency of Energy Poor: Exploring Structural Domination in Energy Practices*.  
**4:25** Ioan M. Charnley-Parry, BSc, MSc\*, University of Central Lancashire; John Whitton, University of Central Lancashire, *What's important to you? Engaging different social groups to understand social priorities and the local impacts of new energy infrastructure in Anglesey, North Wales*.  
**Discussant(s):** Brandon Derman, University of Washington

## 3574. The controversial limits of DRR R&A (2): Exploring the temporal dimensions of disasters and DRR

**Room:** Simmons, Marriott, Third Floor (Paper Session)  
**ORGANIZER(S):** Sebastien Nobert; Julien Rebotier, CNRS  
**CHAIR(S):** Julien Rebotier, CNRS  
**3:20** Jonathan Fayeton\*, Jonathan Fayeton, LATTS, *Setting the clock: time-related dilemmas in crisis management exercises*.  
**3:40** David Chandler\*, University of Westminster, *After Temporality? Real Time Responsivities, Renaturalisation and Digital Hacktivism: A Case Study of Jakarta*.  
**4:00** Sebastien Nobert\*, *"Heat doesn't make me ill, it makes me sweat": Reflecting on durations and temporal disjunctures through the elderly's experience of the 2013 London heat wave*.  
**4:20** Ihnji Jon, University of Washington, *"Technicity" of Disasters: the status of virtual geography in U.S. hazard mitigation planning*.  
**Discussant(s):** Kevin Grove, Florida International University

## 3575. Symposium on Human Dynamics in Smart and Connected Communities Panel Session on "Current state of human

## dynamics in smart and connected communities" (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group, Urban Geography Specialty Group)

**Room:** Suffolk, Marriott, Third Floor (Panel Session)  
**ORGANIZER(S):** Daniel Z. Sui, The Ohio State University; Shih-Lung Shaw, University of Tennessee  
**CHAIR(S):** Daniel Z. Sui, The Ohio State University  
**Introducer:** Rob Kitchin  
**Discussant(s):** Shih-Lung Shaw, University of Tennessee  
**Panelists:** Joseph Ferreira Ferreira, MIT; Barney Warf, University of Kansas; Harvey J. Miller, The Ohio State University; Kathleen Stewart, University of Maryland; Mark I. Wilson, Michigan State University

## 3576. Symposium on Human Dynamics in Smart and Connected Communities: Spatial-Social Networks in GIS 4 (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group, Spatial Analysis and Modeling Specialty Group)

**Room:** Wellesley, Marriott, Third Floor (Paper Session)  
**ORGANIZER(S):** Xinyue Ye, Kent State University; Xingjian Liu, University of Hong Kong; Clio Andris  
**CHAIR(S):** Yingru Li, University of Central Florida  
**3:20** Andrei Kirilenko, Ph.D.\*, University of Florida; Svetlana Stepchenkova, Ph.D., University of Florida, *Changing geography of climate change discourse on Twitter*.  
**3:40** Timothy C. Matisziw\*, University of Missouri - Columbia; Ashkan Gholamialam, University of Missouri - Columbia, *Locating Information in Networks to Facilitate Movement*.  
**4:00** Bernardo A. M. de Alvarenga\*, INRS Urbanisation Culture Société; Philippe Apparicio, INRS Urbanisation Culture Société; Anne-Marie Séguin, INRS Urbanisation Culture Société, *Digital interventions to promote physical activity in parks*.  
**4:20** Yingru Li\*, University of Central Florida; Ting Du, University of Central Florida, *Simulating Family Restaurant Choices with Agent-based Model*.  
**4:40** Shouqiang Chen\*, The University of Hong Kong, *Delimitating the Spatial Scope of Urban Agglomerations in China Based on Functional Connections*.

## 3577. Real Estate Technologies: Genealogies, Frontiers, & Critiques III (Sponsored by Urban Geography Specialty Group, Economic Geography Specialty Group)

**Room:** Harvard, Marriott, Third Floor (Paper Session)  
**ORGANIZER(S):** Will Payne, University of California - Berkeley; Sarah E. Knuth, University of Michigan; Dillon Mahmoudi, Portland State University  
**CHAIR(S):** Sarah E. Knuth, University of Michigan  
**3:20** Mo Speller, PhD Researcher in History, Johns Hopkins University, *Resident Organizing, Code Enforcement, and Minimum Housing Standards in St. Louis City, Missouri, after the 1954 United States Federal Housing Act*.  
**3:40** David Wilson\*, University Of Illinois, *Revalorizing the Accumulation Frontier: South Side Chicago's New Narrative-As-Technology Politics*.  
**4:00** Daniel M. Greene\*, Microsoft Research, *Landlords of the Internet: Rent, Exchanges, and the Infrastructure of the Information Economy*.  
**4:20** Lee Marisa Polonsky\*, Rutgers University, *Assembling Value Through Community Development*.  
**Discussant(s):** Kathe Newman, Rutgers University

## 3579. Land Change 3: Land Grab (Sponsored by Cultural and Political Ecology Specialty Group, Human Dimensions of Global Change Specialty Group, Geographies of Food and Agriculture Specialty Group)

**Room:** Arlington, Marriott, Third Floor (Paper Session)



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ORGANIZER(S): Richard J. Aspinall

CHAIR(S): Jefferson Fox, East-West Center

**3:20** Shu-Wei Chang\*, *Land garb and Space of Neoliberalism in Hsinchu County, Taiwan.*

**3:40** Safa Aburabia\*, Harvard University; Safa Aburabia, Harvard, *The struggle over land among Palestinian-Bedouin in Israel.*

**4:00** Chuan Liao, University of Michigan - Ann Arbor, MI; Jonathan Arthur Sullivan\*, University of Michigan; Arun Agrawal, University of Michigan - Ann Arbor, MI; Daniel Brown, University of Michigan - Ann Arbor, MI; Suhyun Jung, University of Michigan - Ann Arbor, MI, *Large-Scale Land Transactions as Drivers of Land-Cover Change in Ethiopia.*

**4:20** Jefferson Fox, PhD\*, East-West Center, *How land concessions affect places elsewhere: Rubber plantations in northeastern Cambodia and industrial estates in the Red River Delta, Vietnam.*

## 3580. The Geography of Entrepreneurship and its Ecosystems IV (Sponsored by AAG Careers and Professional Development Theme, Economic Geography Specialty Group, Business Geography Specialty Group)

Room: Berkeley, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Elizabeth Mack, Michigan State University; Heike Mayer, University of Bern, Switzerland; Geographisches Institut; Murray Rice, University of North Texas

CHAIR(S): Murray Rice, University of North Texas

**3:20** Ben Spiegel\*, University of Edinburgh Business School, *Entrepreneurial Ecosystems as Practice: Ecosystem Engagement Strategies in Edinburgh and Glasgow, Scotland.*

**3:40** Susann Schaefer\*, Friedrich-Schiller University Jena, Germany, *How Migrant Entrepreneurs Shape Foreign Start-up Ecosystems - The Case of Israeli IT Start-ups in London.*

**4:00** Andreas Kuebart, M.Sc.\*, Leibniz Institute for Research on Society and Space, *Temporary places - How seed accelerators configure future trajectories of organizational development.*

## 3581. Geographies of infrastructure, state-making and political subjectivity - III Roundtable

Room: Clarendon, Marriott, Third Floor (Panel Session)

ORGANIZER(S): Dinesh Paudel, Appalachian State University; Katharine Rankin, University of Toronto; Elsie Lewison, University of Toronto

CHAIR(S): Dinesh Paudel, Appalachian State University  
Panelists: James D. Sidaway, National University of Singapore; Katharine Rankin, University of Toronto; Elsie Lewison, University of Toronto; Galen Murton, University of Colorado Boulder; Colin McFarlane, Durham University; Christoph Fink, University of Vienna

## 3582. Metrics of place: measuring and evaluating placemaking (Sponsored by Cultural Geography Specialty Group)

Room: Dartmouth, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Cara Courage, University of Brighton; Anita McKeown, NCAD

CHAIR(S): Cara Courage, University of Brighton

**3:20** Cara Courage, Dr\*, University of Virginia, *Creative Placemaking best practice in metrics.*

**3:40** Dr. Anita McKeown\*, SMARTlab, *Cultivating PermaCultural Resilience - the Vital Signs Evaluation Matrix for Creative Placemaking.*

**4:00** Sunil Iyengar\*, National Endowment for the Arts, *Metrics of place: measuring and evaluating placemaking.*

**4:20** Vinita Goyal\*, *Measuring democratic and inclusive attributes in creative placemaking through comparative analysis of San Francisco and Seattle examples.*

Discussant(s): Cara Courage, University of Brighton

## 3583. Remote Sensing and Geographic Information Science and Systems Honors Paper Competition Part I (Sponsored by Geographic Information Science and Systems Specialty Group, Remote Sensing Specialty Group)

Room: Exeter, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Nathan S. Gill, USGS Pacific Island Ecosystems Research Center

CHAIR(S): Nathan S. Gill, USGS Pacific Island Ecosystems Research Center

**3:20** Yanjun Su\*, University of California, Merced; Roger C Bales, University of California, Merced; Qin Ma, University of California, Merced; Koren Nydick, U.S. National Park Service, Sequoia & Kings Canyon National Parks; Ram L. Ray, Sierra Nevada Research Institute and School of Engineering, University of California, Merced; Wenkai Li, Guangdong Provincial Key Laboratory of Urbanization and Geo-simulation, School of Geography and Planning, Sun Yat-sen University; Qinghua Guo, Institute of Botany, Chinese Academy of Sciences, *Relative resiliency of Giant Sequoia groves to multi-year dry periods in a warming climate.*

**3:40** Su Ye\*, Clark University, *Monitoring Tropical Tree Crop Plantation Expansion Using Landsat Time Series and a Shapelet-based Approach.*

**4:00** Guang Xu\*, Monash University, *Automatic land cover classification of geo-tagged field photos using deep learning method.*

**4:20** Yingbin Deng\*, University of Wisconsin Milwaukee; Changshan Wu, University of Wisconsin Milwaukee, *Spectral mixture analysis: When and how to apply a weighting scheme.*

**4:40** Jing Li\*, Chinese Academy of Science; University of Massachusetts - Amherst; Qian Yu, University of Massachusetts Amherst; Ronghua Ma, Chinese Academy of Science; Jiwei Li, University of Massachusetts Amherst, *Estimating algal biomass in a shallow eutrophic lake using a look-up-table and spectrum-matching approach.*

## 3584. Geographies and Counter-geopolitics of Humor amid Adversity-1 (Sponsored by Political Geography Specialty Group, Qualitative Research Specialty Group, Geographic Perspectives on Women Specialty Group)

Room: Fairfield, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Jennifer Fluri, University of Colorado, Boulder; Lisa Bhungalia, University of Pittsburgh; Azita Ranjbar, Pennsylvania State University

CHAIR(S): Jessie Hanna Clark, University of Nevada

**3:20** Jessie Hanna Clark\*, University of Nevada, *"The state kills, we kill, everyone kills": Humor and grievability in the field.*

**3:40** Paul Routledge\*, University of Leeds, *'Beautiful Trouble': mobilizing humour in the hidden civil war.*

**4:00** Lisa Bhungalia\*, University of Pittsburgh, *Laughing at power: Humor, subjectification, and the politics of refusal in Palestine.*

**4:20** Jennifer Fluri\*, University of Colorado, Boulder, *Jocular Geopolitics: Everyday uses of humor in spaces of protracted precarity.*

Discussant(s): Azita Ranjbar, Pennsylvania State University

## 3585. Geographies of Degrowth, Part IV: 'Limits' (Sponsored by Cultural and Political Ecology Specialty Group)

Room: Salon H, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Federico Demaria, Universitat Autònoma de Barcelona; Karen Bakker, University of British Columbia; Giorgos Kallis, Universitat Autònoma de Barcelona

CHAIR(S): Giorgos Kallis, Universitat Autònoma de Barcelona



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Introducer: Federico Demaria

**3:40** Irina Velicu\*, Univ of Coimbra, *Less of the Same, More of the Other(s)? Desiring Self-limits between Subjection and Re-Signification.*

**4:00** Giorgos Kallis\*, Universitat Autònoma de Barcelona, *Limits without Scarcity: why Malthus was wrong.*

**4:20** Thomas Princen\*, University of Michigan; Thomas Princen, University of Michigan, *The Origins of Limitlessness.*

**4:40** Christopher Jon Nowlin, M.A., L.L.M., Ph.D.\*, Langara College, *Undermining the Growth Paradigm: Affinities between The Human Condition and The Affluent Society.*

ORGANIZER(S): Jonathan K. London, ept of Human Ecology/Community and Regional Development

CHAIR(S): Jonathan K. London, ept of Human Ecology/Community and Regional Development

Introducer: Jonathan K. London

Discussant(s): Timothy L. Hawthorne, University of Central Florida

Panelists: Catherine Brinkley, University of California; Nancy Erbstein, UC Davis; Cassie Hartzog, UC Davis Geography Graduate Group

**3589.**

**All Things Nuclear in a Post-Fukushima Context: Geographical Perspectives - 4 (Sponsored by Hazards, Risks, and Disasters Specialty Group, Energy and Environment Specialty Group, Economic Geography Specialty Group)**

Room: Vineyard, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Misa Yasumiishi, University at Buffalo; Marissa Z. Bell, University At Buffalo; Daisaku Yamamoto, Colgate University

CHAIR(S): Chris S. Renschler, University at Buffalo (SUNY)

**3:20** Melissa Haller, UCLA, *The End of the Nuclear Era: An Investigation of Nuclear Decommissioning and its Economic Impacts on US Counties.*

**3:35** Jennifer Stromsten, MRP\*, Institute for Nuclear Host Communities, *The Social and Economic Impacts of Nuclear Power Plant Closures.*

**3:50** Daisaku Yamamoto\*, Colgate University; Yumiko Yamamoto, Colgate University; Paul Plummer, University of Western Australia, *What Does It Take for a Nuclear Host Community to Transition to a Sustainable Path?*

**4:05** Yumiko Yamamoto\*, Colgate University; Daisaku Yamamoto, Colgate University, *Women Cultivating Diverse Economies in a Nuclear Host Community: A Case Study of Kashiwazaki, Japan.*

Discussant(s): Andrew Blowers, Open University; Elicia Mayuri Cousins, Northeastern University - BOSTON, MA

**3590.**

**Urban Economies and the Ordinary Life D: Transportation in Cities**

Room: Yarmouth, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): John Miron, University of Toronto

CHAIR(S): Andrew Ryder, The University of Portsmouth, UK

**3:20** Deb Niemeier\*, University of California - Davis, *Regional transportation modeling: mystify, befuddle, and disguise.*

**3:40** Xize Wang\*, University of Southern California, *Will the Millennials Continue to Rely Less on Driving when Moving Back to Suburbs? A National Inquiry on Land Use Impacts on Driving among Generations.*

**4:00** Jun Tu\*, Kennesaw State University, *Impact of Roads and Traffic on Water Quality in Atlanta Metropolitan Area.*

**4:20** Donggen Wang\*, Hong Kong Baptist University, *The impacts of the residential built environment on travel wellbeing: an empirical study.*

**4:40** Andrew Ryder\*, *Transport and town planning in contemporary Iran.*

**3591.**

**Multispheres: Legal & Political Geographies of Geophysical Interfaces, I (Sponsored by Political Geography Specialty Group)**

Room: Nantucket, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Katherine Genevieve Sammler, California State University - Maritime Academy; Zachary Paul Sugg, Colorado College

CHAIR(S): Zachary Paul Sugg, Colorado College

**3:20** Kimberley Peters\*, University of Liverpool, *Invisible infrastructures: the making and maintaining of multi-spherical motorways for governing maritime mobilities.*

**3:40** Eric K. Spears\*, Georgia College & State University, *The Political Ecology of Space and Scale: Public-Private*

**3586.**

**3D Virtual and Augmented Realities for Geoinformation Science, IV (Sponsored by Geographic Information Science and Systems Specialty Group, Cartography Specialty Group)**

Room: Salon I, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Alexander Klippel, Pennsylvania State University; Robert N. Stewart, Oak Ridge National Laboratory; Sven Fuhrmann, George Mason University

CHAIR(S): Robert N. Stewart, Oak Ridge National Laboratory  
**3:20** Insu Hong\*, West Virginia University, *Assess capability of personal VR system with HMD for spatial information communication.*

**3:40** Nicholas Hedley, PhD, Associate Professor\*, Simon Fraser University, Department of Geography, *What to do when worlds collide: the challenges of remixing reality and transduction between virtual and real space.*

**4:00** Susan J. Bergeron\*, Coastal Carolina University, *Rice Kingdom Narratives: Developing Embedded Content for the Virtual Hampton Landscape Exploration Platform.*

**4:20** David Retchless, PhD\*, Texas A&M University at Galveston, *Map and augmented reality views of storm surge flooding: Methods for evaluating effects of perspective on risk perceptions and engagement.*

**4:40** Merrill L. Johnson, Professor of Geography\*, Colorado State University, *The Rise and Fall of Virtual Worlds and the Human Geographer's Role Going Forward.*

**3587.**

**Urban parks and green space: Working for the city (2 of 3) (Sponsored by Recreation, Tourism, and Sport Specialty Group, Regional Development and Planning Specialty Group, Urban Geography Specialty Group)**

Room: Salon J, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Meredith Whitten, London School of Economics

CHAIR(S): Meredith Whitten, London School of Economics

**3:20** Meredith Whitten\*, London School of Economics, *Past in present: Managing urban green space use in contemporary London.*

**3:40** Ivan J Ramirez, The New School; Ana Baptista, The New School; Ana Traverso-Krejcarek, El Puente; Virginia Ribot, El Puente; Jieun Lee, Farmingdale State College-SUNY; Milagros De Hoz, The New School; Andrea Santos, The New School; Jose Galvez Contreras, The New School, *Addressing Air Quality Risks in Open/Green Spaces through Community-Based Participatory Action Research: Pilot Study in Williamsburg, Brooklyn.*

**4:00** Calvin King Lam Chung\*, University College London, *Urban Sustainability Fix, City-Regionalism and China's Greenway Boom.*

**4:20** Caitlin Schneider, Southwestern University, *The Price of Parks: Parks and Recreation Land, Demographic Change, and Housing Affordability in Austin, Texas.*

Discussant(s): Meredith Whitten, London School of Economics

**3588.**

**Open Mapping for Social Equity and Community Change (Sponsored by Geographic Information Science and Systems Specialty Group, Applied Geography Specialty Group)**

Room: Salon K, Marriott, Fourth Floor (Panel Session)

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*Conflicts on Jekyll Island, Georgia (USA).*

- 4:00** Kristen L. Shake\*, Clark University; Deborah G. Martin, Graduate School of Geography, Clark University; Karen E. Frey, Graduate School of Geography, Clark University; Robin K. Craig, College of Law, University of Utah; Philip E. Steinberg, Department of Geography, Durham University, *(Un)frozen Boundaries: Examining the role of sea ice in the sociolegal dynamics of the Bering and Beaufort Seas.*

Discussant(s): Katherine Genevieve Sammler, California State University - Maritime Academy

**3592. Network of Concerned Geographers (NCG) discussion**

Room: Provincetown, Marriott, Fourth Floor (Panel Session)

- ORGANIZER(S): Joel D. Wainwright, The Ohio State University; Jessica Dempsey, University of Victoria; Paul T. Kingsbury, Simon Fraser University  
CHAIR(S): Jessica Dempsey, University of Victoria

**3593. Spatializing Music Performance, Consumption and Political Economies (Sponsored by Cultural Geography Specialty Group, Communication Geography Specialty Group)**

Room: Orleans, Marriott, Fourth Floor (Paper Session)

- ORGANIZER(S): Joseph Palis, University of the Philippines-Diliman; Severin Guillard, Université Paris Est; Ola Johansson, University of Pittsburgh at Johnstown  
CHAIR(S): Joseph Palis, University of the Philippines-Diliman

- 3:20** Adam Zendel\*, University of Toronto, *On The Roadie: Work on Tour in the Live Music Industry.*  
**3:40** Ola Johansson\*, University of Pittsburgh at Johnstown, *Behind the Global Scene: Reputation, Circulation, and Hybridity in Swedish Pop Music.*  
**4:00** Edward Hamilton Davis\*, Emory & Henry College, *In and Out of Place: Jazz, Freedom and Revolution.*  
**4:20** Michael W. Longan\*, Valparaiso University, *What it means to be country: country songs and fan perceptions compared.*  
**4:40** Quenton Stokes-Brown\*, Ohio Wesleyan University, *Reconnecting Capoeira to its Angolan Origins.*

**3594. Contradictions of the Climate Friendly City 2: Critical Perspectives on Urban Climate Change Mitigation and Adaptation (Sponsored by Political Geography Specialty Group, Cultural and Political Ecology Specialty Group)**

Room: Hyannis, Marriott, Fourth Floor (Paper Session)

- ORGANIZER(S): Jennifer L. Rice, University of Georgia; Daniel Aldana Cohen, University of Pennsylvania; Joshua Long, Southwestern University  
CHAIR(S): Joshua Long, Southwestern University  
Introducer: Daniel Aldana Cohen  
**3:30** Jennifer L. Rice\*, University of Georgia, *Carbon Gentrification in the Climate Friendly City.*  
**3:48** Sarah Dooling, Dr.\*, Urban Ecology Futures, Inc., *Ecological gentrification and the gentrification of ecologies: The dynamics of poverty and wealth that undermine climate change goals in Austin, TX.*  
**4:06** Berenice Preller, University of Luxembourg, *Addressing climate change through green building in Luxembourg and Freiburg: achieving urban sustainability or business as usual?.*  
**4:24** M. Paloma Giottonini Badilla\*, UCLA, *Energy efficiency as an instrument to improve quality of life: An analysis of the Mexican Green Mortgage Program.*  
**4:42** Jacqueline Patterson\*, NAACP, *Addressing Social Inequities in Advancing Holistic Models for Climate Mitigation and Adaptation.*

**3595. Contemporary issues in Maritime Transport Geography #2**

Room: Falmouth, Marriott, Fourth Floor (Paper Session)

- ORGANIZER(S): Claude Comtois, University of Montreal; Jeanne-Hélène Jugie, Université De Montreal  
CHAIR(S): Jeanne-Hélène Jugie, Université De Montreal

Introducer: Jeanne-Hélène Jugie

- 3:22** Claude Comtois\*, University of Montreal; Brian Slack, Concordia University, *Carrier differences in ship turnaround time in port.*  
**3:42** Mingxiang Feng\*, Wuhan University; Shih-Lung Shaw, Department of Geography, University of Tennessee; Zhixiang Fang, Wuhan University; Guojun Peng, Navigation Institute of JiMei University; Ranxuan Ke, Navigation Institute of JiMei University; Hanwu Li, Wuhan University, *Time Efficiency Assessment of AIS Data for Containerships in Maritime Port: A Case Study of Four Ports.*  
**4:02** Paul Hayoung Jung\*, University of North Carolina - Charlotte; Mona Kashiha, McKinsey & Company; Jean-Claude Thill, University of North Carolina - Charlotte, *Community structures in disaggregated flows of containerized cargo in global maritime trade.*  
**4:22** Philippe De Champlain\*, Interuniversity Research Center on Enterprise Networks, Logistics and Transport, *Megaships And Ports Of Call: A New Paradigm..*  
**4:40** Alex Champagne-Gelinas\*, Université de Montreal, *China's Maritime Belt: The Growing Ocean Economic Nexus.*

**3596. Experiments in Force IV: Conceptualizing Technology and the Apparatus of Security (Sponsored by Political Geography Specialty Group)**

Room: Maine, Marriott, Fifth Floor (Paper Session)

- ORGANIZER(S): Jason Dittmer, University College London; Anna Feigenbaum, Bournemouth University  
CHAIR(S): Rhys Machold, Danish Institute for International Studies (DIIS)  
**3:20** Marijn Huijink\*, VU University, *What is a Weapon? Understanding Knowledge Practices in Contemporary Arms Control.*  
**3:40** Samuel Henkin\*, University of Kansas, *Alternatives between "shouting and shooting": Scientific and technological constructions of so-called 'non-lethal' weapons.*  
**4:00** Nathaniel O'Grady\*, Southampton University, *The Temporary Media Ecologies of an Emergency.*  
**4:20** David Grondin\*, University of Ottawa, *The Force of Algorithms as Infrastructures of Security: Making sense of "smart borders" in the North American Security/Mobility Nexus.*  
Discussant(s): Anna Feigenbaum, Bournemouth University

**3597. Conservation Law Enforcement II: Policing Conservation Areas and the Trade in Wildlife and Forest Products (Sponsored by Cultural and Political Ecology Specialty Group, Animal Geography Specialty Group)**

Room: Massachusetts, Marriott, Fifth Floor (Paper Session)

- ORGANIZER(S): Francis Masse, York University; William Moreto, University of Central Florida  
CHAIR(S): Emile Smidt, International Institute of Social Studies  
**3:20** Jared D. Margulies\*, Geography and Environmental Systems, UMBC, *Reading Althusser in a South Indian forest: Conservation and the ideological state apparatuses.*  
**3:36** Libby Lunstrum\*, York University, *Green Militarization & the Militarization of Society.*  
**3:52** Rosaleen Duffy\*, University of Sheffield, *Interventionism, global security and the new era of biodiversity conservation..*  
**4:08** Michael Slattery, Ph.D.\*, Texas Christian University; William Fowlds, DVM, Amakhala Game Reserve, *The African Rhino Community Centre (ARCC): A Collaborative Strategy to Protect Rhino in the Eastern Cape of South Africa.*  
**4:24** Hollie Grant\*, University of British Columbia, *Community-based forest management in the context of pervasive forest-related violence in Cambodia.*  
**4:40** Emile Smidt\*, International Institute of Social Studies;

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Emile Smidt, International Institute of Social Studies,  
*The 'War on Rhino Poaching': Conservation as  
 Pacification.*

## 3598. Geographies of Ecosystem Services: From Maps to Policy Implementation II (Sponsored by Geographic Information Science and Systems Specialty Group, Remote Sensing Specialty Group, Spatial Analysis and Modeling Specialty Group)

Room: *New Hampshire, Marriott, Fifth Floor* (Paper Session)

ORGANIZER(S): Muna Shah, University of Texas At Dallas;  
 Anthony Ravindra Cummings, University of Texas at Dallas

CHAIR(S): Anthony Ravindra Cummings, University of Texas at Dallas

3:20 Graham Daly\*, Texas State University, Department of Geography; Jason P Julian, PhD, Texas State University, Department of Geography, *Social Demand of a Blue Space: Use, Values, and Perceptions of the San Marcos River, Texas.*

3:40 Aditi Ranjan, PhD\*, MYMA Solutions; Pankaj Lal, PhD, Montclair State University, *Mainstreaming Ecosystem Service in the Sustainability Evaluation Process for Remedial Activities.*

4:00 Tianyi Li\*, *Urban Construction Land Use Pattern Evolvement Mechanism and ecosystem services: A Case Study of Shenzhen for Recent 30 Years.*

4:20 Iryna Dronova\*, UC Berkeley, *Global meta-analysis of leaf area index in non-forested wetlands indicates important uncertainties in field and remote sensing characterization of ecosystem function.*

## 3599. The relationships between airport-driven impacts and urban areas' social-spatial patterns 2 (Sponsored by Transportation Geography Specialty Group)

Room: *Vermont, Marriott, Fifth Floor* (Paper Session)

ORGANIZER(S): Frederic Dobruszkes, Brussels University (ULB); Andrew R. Goetz, University of Denver

CHAIR(S): Frederic Dobruszkes, Brussels University (ULB)

3:20 Weiqiang Lin\*, University of Toronto, *Constructing Aerotropolises: Airports, Logistics and Transnational Impacts.*

3:40 Thomas Budd\*, Cranfield University; Lucy Budd, Loughborough University, *Driven to drive? Assessing the uneven socio-spatial and temporal dimensions of employee ground access travel to UK airports.*

4:00 Linna Li, Dr, University of Hong Kong; Becky P.Y. Loo, Professor\*, University of Hong Kong, *Towards a Sustainability Framework of Evaluating Airport Infrastructural Projects.*

4:20 Sven Conventz\*, Technical University of Munich, *Knowledge hub Munich Airport.*

4:40 Andrew R. Goetz\*, University of Denver, *A Critical Perspective of the Aerotropolis Concept: Tensions and Contradictions in a Case Study of Denver.*



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Poster Sessions for Friday are located on pages 242-251.

## 3601. Transformations in The Global Economy: Strategic Action, Institutional Change, and Shifting Power Balances

Room: Room 101, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Päivi Oinas, University of Turku, Turku School of Economics

CHAIR(S): Päivi Oinas, University of Turku, Turku School of Economics

Introducer: Päivi Oinas

5:24 Richard Nakamura, University of Gothenburg; Patrik Ström\*, University of Gothenburg, *Chinese Firms' Utilization Of Foreign Acquisitions In Peripheral Industrialized Regions.*

5:44 Lucia Gómez\*, University of Turku; Päivi Oinas, University of Turku, *Preparing Latin America's 'most innovative city' for MNE entry: the role of the local developmental ecosystem.*

6:04 Jarmo Kari Mikael Nikander\*, Turku School of Economics, *Institutional Agency in Startup Ecosystem Formation in Japan.*

6:24 Jerry Patchell\*, Social Science, HKUST, *Global Climate Change Governance: incorporating hard oligopoly governance into a soft territorial framework.*

Discussant(s): Sebastian Henn, University of Jena; Andrew Jones, City University London

## 3602. Climate Specialty Group John Russell Mathew Paper of the Year Presentation (Sponsored by Climate Specialty Group)

Room: Room 102, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Trent Ford, Southern Illinois University; John A. Harrington, Kansas State University

CHAIR(S): Trent Ford, Southern Illinois University

5:20 John A. Harrington Jr.\*, Kansas State University, *The Climate Specialty Group: A Look Back.*

## 3603. Drones for good? Reflections from the Amazon

Room: Room 103, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Murat Arsel, Institute of Social Studies

CHAIR(S): Carlos F. Mena, Universidad San Francisco de Quito

Introducer: Murat Arsel

5:25 Murat Arsel\*, Institute of Social Studies (ISS) - Erasmus University Rotterdam, *Technology, accountability and development: Reflections on drones in the Amazon.*

5:45 Carlos F. Mena\*, Universidad San Francisco de Quito; Patricia Martinez, Universidad San Francisco de Quito; Lorena Benitez, Universidad San Francisco de Quito; Carolina Sampedro, Universidad San Francisco de Quito, *Community Monitoring and Drones for Environmental and Social Issues: Three cases in the Ecuador.*

6:05 Marti Orta\*, International Institute of Social Studies; Lorenzo Pellegrini, International Institute of Social Studies; Murat Arsel, International Institute of Social Studies, *Drones for indigenous activism: mapping oil spills in the Peruvian Amazon.*

6:25 Lorenzo Pellegrini\*, ISS, Erasmus University, *On the impact of conservation drones: experience from community-based monitoring in the Ecuadorian and Peruvian Amazon.*

Discussant(s): Lorenzo Pellegrini

## 3604. Rethinking State Theory in an Urban World II

Room: Room 104, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Julie-Anne Boudreau, INRS-Montreal; Christian Haid, Center for Metropolitan Studies, Technical University Berlin

CHAIR(S): Julie-Anne Boudreau, INRS-Montreal

5:20 Patrick Le Gales\*, Sciences Po CNRS; King Desmond, Nuffield college oxford, *Reconfiguration states in crisis in Europe.*

5:40 Christian von Wissel\*, TU Braunschweig, *Governing*

*through Uncertainty. Reproducing the state to the inside of the informal building sector in Mexico City.*

6:00 Sangeeta Banerji\*, Rutgers University, *Negotiating for land in Mumbai: An ethnography of brokerage within the Municipal Corporation of Greater Mumbai.*

6:20 Julie-Anne Boudreau\*, INRS-Montreal, *Personalized and public protection: Thinking state theory through the lens of urban religious practices in Mexico City.*

Discussant(s): Diane Davis, Harvard University

## 3605. Emerging geographies of Post-Apartheid South Africa (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme, Africa Specialty Group)

Room: Room 105, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Joseph Terzungwe Zume, Shippensburg University

CHAIR(S): Ryan Centner, London School of Economics

5:20 Brij Maharaj, UKZN\*, School of Agriculture, Earth and Environmental Sciences, *Development, Vulnerability and Displacement: The Case of the Proposed Dug-out Port in Durban, South Africa.*

5:40 Michael White\*, Brown University; Richard Ballard, Gauteng City-Region Observatory, South Africa; Christian Hamann, Gauteng City-Region Observatory, South Africa; Anna Nicole Kreisberg, Brown University, *Changing Racial Segregation in the New South Africa.*

6:00 Sagie Narsiah, Dr\*, University of KwaZulu-Natal, *Neoliberalism and Citizenship in Durban, South Africa.*

6:20 Edward Ramsamy\*, Rutgers University, *Nelson Mandela: the Making of a Global Icon.*

6:40 Ryan Centner\*, London School of Economics, *Inhabiting showcase urbanism in South Africa & Brazil: Developmental aspirations among increasing heterogeneity.*

## 3606. Human rights education and research practice (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme)

Room: Room 107, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Mainstreaming Human Rights

CHAIR(S): Pablo S. Bose, University of Vermont

5:20 Leo L. Hwang, Ph.D.\*, Greenfield Community College, *Finding a Beacon: a community economies approach to fostering diversity and inclusion at a community college.*

5:40 Maureen Ann Kelley\*, San Jose State University, *Using the Universal Declaration of Human Rights as a foundation for teaching an upper-division general education geography course.*

6:00 Amy Ross\*, University Of Georgia, Athens, *What's Wrong with Rights? A critical approach to human rights research..*

6:20 Pablo S. Bose, Dr\*, University of Vermont, *Refugee Research in the Shadow of Fear.*

## 3607. SAM/Geographical Analysis plenary (Sponsored by Spatial Analysis and Modeling Specialty Group)

Room: Room 108, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Nazli Z. Uludere Aragon, Arizona State University

CHAIR(S): Nazli Z. Uludere Aragon, Arizona State University

5:20 Daniel A. Griffith\*, U. of Texas at Dallas, *Some Robust Assessments Of Eigenvector Spatial Filtering.*

## 3608. Using the Bible as Data Source, Insights Gained into the Impact of Humankind on the Foundations of the Earth and Guidelines for Sustainable Development (Sponsored by Bible Geography Specialty Group)

Room: Room 109, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): William A. Dando, Indiana State University

CHAIR(S): William A. Dando, Indiana State University



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- 5:20 William A. Dando\*, Indiana State University, *Job, "The Whirlwind Discourse," and Climate Change.*
- 5:40 NicoleDePue\*, Jerusalem University College, *The Growth Of Herod's Kingdom.*
- 6:00 Bruce R. Crew, Ph.D.\*, Independent Scholar, *The Geo-Political Location of the Tribal Territory of Benjamin in Ancient Israel..*
- 6:20 Perry Phillips, Ph.D.\*, Independent Scholar, *The Fortified Cities of the Kingdom of Judah.*
- 6:40 Gordon Franz\*, Christian Information Ministries; Gordon W Franz, Christian Information Ministries, *Were the Temples of King Solomon and Herod the Great Over the City of David on on the Historic Temple Mount?.*

## 3609. Relational Ruralities 2: Networks, Connections, and Flows (Sponsored by Rural Geography Specialty Group, Population Specialty Group, European Specialty Group)

Room: Room 110, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Peter B. Nelson, Middlebury College; Martin Phillips, University Of Leicester; Pierre Pistre, Université de Limoges GEOLAB

CHAIR(S): Darren Smith, Loughborough University

5:20 John Hines\*, Savageton, *The Inspiration of the Experience Economy and Cultural Omnivory in the Re/ Construction of Relational Ruralities.*

5:40 SYLVAIN GUYOT\*, Bordeaux Montaigne University / CNRS : Passages & Geolab; Greta Tommasi, UMR 6042 CNRS GEOLAB; Marie Méténier, UMR 6042 CNRS GEOLAB, *The creation of rural relationalities by artists: comparative perspectives from France, United Kingdom and United States..*

6:00 Peter B. Nelson\*, Middlebury College; Dwight Hines, Point Park University, *Rural Gentrification and New Geographies of Capital Accumulation - a case study of Jackson Hole, Wyoming.*

6:20 Jared Whear\*, Syracuse University, *Relational Place-Making and Rural Protest: The Great Basin Water Network and its Rural-Urban Resistance Campaign against the Las Vegas Water Grab.*

6:40 Cheryl Morse\*, University of Vermont, *Relational Rural Identities: The Role of the Material in Maintaining Connections to Place.*

## 3610. cultural geographies Annual Lecture (Sponsored by Geographic Information Science and Systems Specialty Group, Cultural Geography Specialty Group)

Room: Room 111, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): John Wylie, University Of Exeter; Dydia DeLyser, California State University, Fullerton; Anna J Secor, University of Kentucky

CHAIR(S): John Wylie, University Of Exeter

Introducer: John Wylie

5:30 Matthew W. Wilson\*, University of Kentucky, *On being technopositional in digital geographies.*

## 3611. Landscape Forensics

Room: Room 200, Hynes, Second Level (Panel Session)

ORGANIZER(S): Joern Langhorst, University of Colorado Denver, College of Architecture and Planning; Joni M. Palmer, University of Colorado at Boulder

CHAIR(S): Joern Langhorst, University of Colorado Denver, College of Architecture and Planning

Panelists: Joern Langhorst, University of Colorado Denver, College of Architecture and Planning; Joni M. Palmer, University of Colorado at Boulder; Anne Whiston Spirn, MIT; Tim Waterman, University of Greenwich

## 3612. Working Toward a Sustainable Arctic II (Sponsored by Polar Geography Specialty Group)

Room: Room 201, Hynes, Second Level (Paper Session)

ORGANIZER(S): Forrest Leanna Melvin, George Washington University

CHAIR(S): Forrest Leanna Melvin, George Washington University

5:20 Andrew C.W. Leung\*, University of Toronto - Scarborough; Tanzina Mohsin, University of Toronto - Scarborough; William A. Gough, University of Toronto - Scarborough, *Statistical Downscaling Past and Future Soil Temperatures at a northern Quebec Airport in Canada.*

5:40 Luis Jakob Suter\*, George Washington University; Dmitry Streletskiy, PhD, The George Washington University; Robert Ortung, PhD, The George Washington University, *Towards an Arctic Urban Sustainability Index.*

6:00 Salma Odeh Zbeed\*, University of Northern Iowa; Salma Odeh Zbeed, *The New North: Patents and Knowledge Economy in Alaska.*

6:20 Ruth Chaves Heindel\*, Dartmouth College; Jonathan W Chipman, Dartmouth College; James T Dietrich, Dartmouth College; Ross A Virginia, Dartmouth College, *3D Photogrammetric Modeling of Aeolian Soil Erosion in West Greenland.*

6:40 Lassi Heininen\*, University of Lapland, *Perceptions of the Arctic - from a former military theater into an exceptional space in international relations and cultural shift for Arctic resilience.*

## 3613. Sustainable Cities

Room: Room 202, Hynes, Second Level (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): David Fannon, Northeastern University

5:20 Bradford D Johnson\*, University of Georgia; J. Marshall Shepherd, Ph.D., University of Georgia, *The Impact of Urban Clusters on Winter Precipitation.*

5:40 Yeran Sun\*, Urban Big Data Centre, University of Glasgow, *'Big data', crowd-sourced cycling data and air pollution exposure.*

6:00 Shota Tamura\*, Hiroshima university; Takahiro Tanaka, Hiroshima university, *A study on the future urban structure based on the resident intention in small town.*

6:20 Megan Carras, PhD Candidate\*, University of Saint Andrews, *'Tiny house, big impact': are tiny homes a cure for consumerism? Exploring the Tiny House Movement in the United States..*

6:40 David Fannon, AIA, Member ASHRAE, LEED-AP BD+C\*, Northeastern University; Michelle Laboy, PE, Northeastern University, *Data Modeling to Evaluate Resilience in Residential Buildings.*

## 3614. Teaching and Advising about Careers in Geography (Sponsored by AAG Careers and Professional Development Theme)

Room: Room 203, Hynes, Second Level (Panel Session)

ORGANIZER(S): Mark Revell, American Association of Geographers

CHAIR(S): Mark Revell, American Association of Geographers

Panelists: Denise Blanchard, Texas State University; Anna Royar, Heather R. Houlton, American Geosciences Institute; Leslie McLees, University of Oregon; Michael N. DeMers, New Mexico State University

## 3615. Scales of Identities

Room: Room 204, Hynes, Second Level (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): James M. McCluskey, University of Wisconsin Colleges

5:20 Chad Newbrough Steacy\*, University of Georgia; Meredith Welch-Devine, University of Georgia; Brian J Burke, Appalachian State University; Stephanie Rzonca, Appalachian State University, *On the urban periphery: Eco-development, conservation, and negotiating the environmental imaginary in Southern Appalachia.*

5:40 Robert Perham\*, Louisiana State University, *A Digital Age*

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*of Resistance: Confederate Iconography, "Southern" Identities, and Social Media.*

**6:00** Anurupa Roy\*, State University of New York, Albany, *The Politics of Urban Space (Re)Making and the Middle Class in India.*

**6:20** James M. McCluskey, PhD\*, University of Wisconsin Colleges, *The Geographic Disparity of People Claiming American Ancestry.*

**3616. Publishing books with top university presses and commercial publishers (Sponsored by Cultural and Political Ecology Specialty Group, China Specialty Group, AAG Careers and Professional Development Theme, Asian Geography Specialty Group, Development Geographies Specialty Group, Economic Geography Specialty Group)**

*Room:* Room 205, Hynes, Second Level (Panel Session)

ORGANIZER(S): Henry Wai-chung Yeung, National University of Singapore; Sharmistha Bagchi-Sen, SUNY-Buffalo

CHAIR(S): Sharmistha Bagchi-Sen, SUNY-Buffalo

Introducer: Henry Wai-chung Yeung

Panelists: Rob Kitchin, National University Of Ireland Maynooth; Michael Storper, UCLA; Emily Yeh, University of Colorado; Beth Cleverger, MIT Press; Jeff Dean, Harvard University Press

**3617. Race, Place and Violence: Historical and Contemporary Issues of Memory III (Sponsored by Cultural Geography Specialty Group)**

*Room:* Room 206, Hynes, Second Level (Paper Session)

ORGANIZER(S): Joshua F. Inwood, Pennsylvania State University; Kenneth E. Foote, University of Connecticut; Aretina Rochelle Hamilton, University of Kentucky

CHAIR(S): James A. Tyner, Kent State University

**5:20** Rebecca Clouser, Ph.D., Washington University in St. Louis, *Forgetting by Decree: The Discursive and Material Impacts of Genocide Denial in Guatemala.*

**5:40** John Finn\*, Christopher Newport University, *Violence, Segregation, and the American Urban Landscape.*

**6:00** Joshua F. Inwood\*, Pennsylvania State University, *Race, Memory, Biopolitics and the Law: Trayvon Martin and the Language of White Supremacy.*

**6:20** Stephen Hanna\*, University of Mary Washington; Derek H Alderman, University of Tennessee; Candace Forbes Bright, University of Southern Mississippi; David Butler, University of Southern Mississippi; Perry Carter, Texas Tech University; E. Arnold Modlin, Norfolk State University; Amy Potter, Armstrong State University, *The Plantation Museum as a Violent Assemblage: Untangling the Politics of Remembering Slavery at White Supremacy's Ground Zero.*

**6:40** James A. Tyner\*, Kent State University, *From Cambodia to Kent State: Memory-Work and the Absent-Presence of Racialized Violence.*

**3619. Geography and Remote Sensing Innovation: The Perspective of a Pecora Award Winner (Sponsored by USGS)**

*Room:* Room 210, Hynes, Second Level (Paper Session)

ORGANIZER(S): Thomas R. Loveland, United States Geological Survey

CHAIR(S): Thomas R. Loveland, United States Geological Survey

Introducer: Thomas R. Loveland

**5:25** Curtis Edward Woodcock\*, Department of Earth and Environment, Boston University, *The Benefits of Time.*

Discussant(s): Thomas R. Loveland, United States Geological Survey

**3621. Music, Sound, Space (Sponsored by Cultural Geography Specialty Group)**

*Room:* Room 301, Hynes, Third Level (Paper Session)

ORGANIZER(S): Matthew Cook, Eastern Michigan University

CHAIR(S): Ian Spangler, University Of Kentucky

**5:20** Deborah Delaunay\*, INRS Urbanisation Culture Société; Philippe Apparicio, INRS Urbanisation Culture Société; Anne-Marie Séguin, INRS Urbanisation Culture Société, *Identification and qualification of quiet urban area in Montreal.*

**5:40** Benjamin Capellari\*, INALCO, Paris, *What is Greek Music? A Critical Geography of Music in the Delphic Revival Project.*

**6:00** Alexander Kamal Karaman\*, University of Arizona, *Going Out/Coming Out: Queering Public Space Through Palestinian Hip-Hop.*

**6:20** Ian Spangler, BA English & Geography\*, University Of Kentucky, *"Yo, Dre, I've Got Something to Say:" Listening to Compton's Hip-Hop Landscape.*

**3623. Hydroclimatology III (Sponsored by Climate Specialty Group)**

*Room:* Room 303, Hynes, Third Level (Paper Session)

ORGANIZER(S): Natalie Teale, Rutgers University; Trent Ford, Southern Illinois University

CHAIR(S): Natalie Teale, Rutgers University

**5:20** Erika K. Wise\*, University of North Carolina at Chapel Hill; Connie Woodhouse, University of Arizona; Greg McCabe, USGS; Greg Pederson, USGS; Jeannine St Jacques, Concordia University, *Disparate climate controls on extreme flow years in the Upper and Lower Missouri River.*

**5:40** Connie A. Woodhouse\*, University of Arizona; Sarah Frederick, University of Arizona; Gregory T. Pederson, U.S. Geological Survey, Northern Rocky Mountain Science Center; Erika K. Wise, University of North Carolina, *Spatial and Temporal Variability in Upper Missouri River Basin Droughts and Pluvials.*

**6:00** Andrew Day\*, University of Louisville, *Modeling Urban Watershed Runoff Response for a Series of Storm Events, Louisville, Kentucky.*

**6:20** Manuel Hernandez\*, University of North Carolina - Chapel Hill; Erika Wise, University of North Carolina - Chapel Hill, *Warm Season Intensification of the Great Plains Low-Level Jet in CMIP5 Experiments.*

**6:40** Steven Quiring\*, The Ohio State University; Trent W Ford, Southern Illinois University; Adam L Houston, University of Nebraska-Lincoln; Yuechun Wang, The Ohio State University; Lisa Goldstein, The Ohio State University, *Investigating Soil Moisture-Convective Precipitation Feedbacks with NASA SMAP.*

**3624. The 2017 Antipode AAG Lecture (Sponsored by Wiley Publishing)**

*Room:* Room 304, Hynes, Third Level (Paper Session)

ORGANIZER(S): Sharad Chari, University of the Witwatersrand

CHAIR(S): Sharad Chari, University of the Witwatersrand

Introducer: Sharad Chari

Discussant(s): Lisa Lowe, Tufts University

**3625. Advanced Placement Human Geography: Past, Present and Future (Sponsored by Geography Education Specialty Group, Community College Affinity Group)**

*Room:* Room 305, Hynes, Third Level (Panel Session)

ORGANIZER(S): Darren Purcell, University of Oklahoma

CHAIR(S): Darren Purcell, University of Oklahoma

Introducer: Darren Purcell

Panelists: Alexander B. Murphy, University of Oregon; Gary Gress, University of Oklahoma; Seth Dixon, Rhode Island College; Larianne Collins, University of South Carolina; Jeffrey W. Lash, University of Houston Clear Lake; JoAnn (Jodi) Vender, The Pennsylvania State University; Darren Purcell, University of Oklahoma

**3628. Watersheds and water resources (Sponsored by Geographies of Bread and Water in the 21st Century Featured Theme)**

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Room: Room 308, Hynes, Third Level (Paper Session)

ORGANIZER(S): Bread and Water

CHAIR(S): Henry Bulley, CUNY BMCC

5:20 Suzanne Dallman, PhD\*, California State University - Long Beach; Anita M Chaudhry, PhD, CSU Chico; Misgana K Muleta, PhD, PE, Cal Poly State University, San Luis Obispo; Juneseok Lee, PhD, PE, San Jose State University, *The Value of Rain: Benefit-Cost Analysis of Rainwater Harvesting*.

5:40 Jamie McEvoy\*, Montana State University, *From Bleak to Bright: An Analysis of "Bright Spots" for Adapting to Drought and Water Scarcity*.

6:00 Zachary Bischoff-Mattson, M.Sc.\*, Brown University; Amanda H Lynch, Ph.D., Brown University, *Integrative governance of environmental water in Australia's Murray-Darling Basin: Evolving challenges and emerging pathways*.

6:20 Justin Barthle\*, University of South Florida; Kamal Alsharif, Ph.D., University of South Florida, *Analysis of Managerial Decision-Making within Florida's Total Maximum Daily Load Program*.

6:40 Henry N. N. Bulley, Dr.\*, BMCC, City University of New York, New York, NY 10007, *Assessment of Landscape Change and Ecosystem Services (Water Quality) of New York City Water Supply Watersheds*.

## 3629. Theorizing the Geographies of Education and Learning

Room: Room 309, Hynes, Third Level (Paper Session)

ORGANIZER(S): Matt Finn, University of Exeter

CHAIR(S): Matt Finn, University of Exeter

5:20 Matt Finn, PhD\*, University of Exeter, *The awkward geographies of schooling - theorizing at the intersection of geographies of education, childhood and youth*.

5:40 Itta Bauer\*, Universität Zürich, *Vital assemblages in geography: paving the way for teaching geography from a socio-material perspective*.

6:00 Sol Gamsu\*, King's College London, *Towards a theory of uneven (regional) development of education: understanding the role of elite and middle-class educational institutions in producing the cultural and economic dominance of the South-East of England*.

6:20 Joseph Henderson, PhD\*, University of Delaware; Amy Trauth-Nare, PhD, University of Delaware; Andrea Drewes, University of Delaware, *Climate Change Education and the Next Generation: A Geographic Policy Analysis of Science Standards Enactment*.

6:40 Sarah Heck, MA, Temple University; Melissa Gilbert, PhD, Temple University, *Broadening geographies of education from the perspective of youth organizing*.

## 3631. New Geographies of the American West II: Rethinking/ Reclaiming Public Lands (Sponsored by Cultural and Political Ecology Specialty Group, Rural Geography Specialty Group, Human Dimensions of Global Change Specialty Group)

Room: Room 311, Hynes, Third Level (Panel Session)

ORGANIZER(S): Hannah Gosnell, Oregon State University; Randall K. Wilson, Gettysburg College

CHAIR(S): Eric P. Perramond, Colorado College

Panelists: David Havlick, University of Colorado - Colorado Springs, CO; Randall K. Wilson, Gettysburg College; Hannah Gosnell, Oregon State University; Terence Young, California State Polytechnic University-Pomona

## 3633. Environmental Issues in National Security (Sponsored by Military Geography Specialty Group)

Room: Room 313, Hynes, Third Level (Paper Session)

ORGANIZER(S): Andrew Lohman

CHAIR(S): Mark Read, United States Military Academy

5:20 Francis A. Galgano, Ph.D., Villanova University, *The*

*Contemporary Evolution of Geostrategic Space*.

5:40 Wiley C. Thompson, PhD\*, West Point, *When Politics, the Environment, and Advocacy Compete - Environmental Security in the South China Sea*.

6:00 William W. Doe\*, University of Colorado, Boulder, U.S. *Military Installations and Climate Change: Impacts and Resiliency*.

6:20 Mark R. Read, PhD\*, United States Military Academy; Adam J. Kalkstein, PhD, United States Military Academy, *Climate Change, National Security, and U.S. Land Forces: Setting the Record Straight*.

## 3638. What is "rural"? Discussion Based on US Usage (Sponsored by Rural Geography Specialty Group, Population Specialty Group, Health and Medical Geography Specialty Group, Uncertainty and Context in Geography and GIScience Featured Theme)

Room: Independence East, Sheraton, Second Floor (Panel Session)

ORGANIZER(S): Yolanda Jane McDonald, Texas A&M University

CHAIR(S): Yolanda Jane McDonald, Texas A&M University

Panelists: John Cromartie, USDA; Michael R. Ratcliffe, U.S. Bureau Of the Census; Sara McLafferty, University of Illinois; Kevin Henry, Temple University; Lawrence Gary Hart, School of Medicine, University of North Dakota, Grand Forks, ND

## 3639. Security Assemblages in Urban Environments

Room: Independence West, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Frank I. Mueller, University of Amsterdam; Patrick Weir, University of Amsterdam

CHAIR(S): Frank I. Mueller, University of Amsterdam

Introducer: Frank I. Mueller

5:22 Valerie November\*, LATTS University of Paris-Est; Laurence Créton-Cazanave, LATTS Ecole des Ponts ParisTech, *Control rooms : what do they assemble exactly?*.

5:35 Laurence Créton-Cazanave\*, UMR LATTS - Ecole des Ponts ParisTech; Valérie November, LATTS-CNRS, *Security assemblages in Paris and its region. An insight through the analysis of a web-based application called CRISORSEC*.

5:48 Judith Verweijen\*, Ghent University, *Legitimizing Urban Order-making in the Eastern DR Congo: The Discursive Repertoires of the Balala Rondo*.

6:01 Matthew Aaron Richmond, Dr\*, Centro De Estudos da Metrópole, *"A hostage to both sides": Antagonistic security assemblages in Rio de Janeiro's pacified favelas*.

6:14 Ioanna Tsoni\*, Malmö University, *Assembling Fortress-Europe: Bodies, technologies and objects within the Southeastern Mediterranean borderscape*.

6:27 Anna Okada\*, University of Hong Kong, *The No-Fly List: An Apparatus of Discriminatory Punishment Masquerading as an 'Inconvenience'*.

Discussant(s): Patrick Weir, University of Amsterdam

## 3640. Landscape Backstories (Sponsored by Landscape Specialty Group)

Room: Liberty B, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Ellen Hostetter, University of Central Arkansas

CHAIR(S): Ellen Hostetter, University of Central Arkansas

5:20 Jeffrey Widener, Ph.D.\*, The University of Oklahoma, *Water Policy, Heritage, and the Cultural Landscape in Western Colorado*.

5:40 Ellen Hostetter\*, University of Central Arkansas, *Automobile Inspections and Stop Signs: A Backstory from New Jersey's Department of Motor Vehicles*.

6:00 Stephen M. O'Connell\*, University of Central Arkansas, *Second Homes, Recreation Development, and the Creation of Leisure Landscapes*.

6:20 Elaine Brown Stiles\*, University of California, Berkeley,



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*Free-Market Living: Politics, Economic Activism, and Suburban Housing Development in the World War II Era.*

- 6:40** Taro Futamura\*, Doshisha University, *Re-examining Struggles with Location: Politics of farmers market site selection in Owensboro, KY.*

**3641. History of Geography Specialty Group Plenary: International Perspectives on Leadership in Geography (Sponsored by History of Geography Specialty Group)**

- Room:** *Liberty C, Sheraton, Second Floor* (Panel Session)  
 ORGANIZER(S): Guntram Herb, Middlebury College  
 CHAIR(S): Guntram Herb, Middlebury College  
 Introducer: Guntram Herb  
 Panelists: M. S. DeVivo; André Reyes Novaes, State University of Rio de Janeiro; Mariana Araujo Lamego, UERJ; Ferenc Gyuris, Eotvos Lorand University, Dept of Regional Science, Budapest (Hungary); Boris Michel, Universität Erlangen-Nürnberg; Elena Dell'Agnese, Università Di Milano-Bicocca

**3642. Economic Geography XIV - Innovation and Learning in Core and Peripheral Regions, Cohesion and Brexit (Sponsored by Economic Geography Specialty Group)**

- Room:** *Back Bay Ballroom A, Sheraton, Second Floor* (Paper Session)  
 ORGANIZER(S): Dieter Franz Kogler, University College Dublin; Jennifer Clark, Georgia Institute of Technology; Thomas Kemeny, University of Southampton

- CHAIR(S): Thomas Kemeny, University of Southampton  
**5:20** Jian Gao\*, Macro Connections, MIT Media Lab, Massachusetts Institute of Technology; Bogang Jun, Macro Connections, MIT Media Lab, Massachusetts Institute of Technology; Tao Zhou, Complex Lab, University of Electronic Science and Technology of China; César A. Hidalgo, Macro Connections, MIT Media Lab, Massachusetts Institute of Technology, *Learning from neighboring regions or neighboring industries? Comparing the role of regional and industrial spillovers in the evolution of the Chinese economy.*

- 5:40** John Callum Wilkie\*, London School of Economics, *Innovation and Economic Growth in the European Periphery: Comparing Europe's Lagging Regions.*

- 6:00** Marte Cecilie Wilhelmsen Solheim\*, University of Stavanger, *On the link between organizational practices and innovation in core, intermediate, and peripheral regions.*

- 6:20** Filippo Randelli\*, University of Florence; Benedetto Rocchi, University of Florence; Lorenzo Corsini, University of Pisa; S. Giampaolo, ISTAT, *On-farm and regional factors affecting the participation of farmers to the short food supply chains: an empirical analysis on Census data.*

- 6:40** Marco Di Cataldo\*, London School of Economics, *The impact of EU Objective 1 funds on regional development: Evidence from the UK and the prospect of Brexit.*

**3644. The American Community Survey: Data, Tools, Resources, and Innovative Applications for Geographers**

- Room:** *Constitution A, Sheraton, Second Floor* (Paper Session)  
 ORGANIZER(S): Linda Jacobsen  
 CHAIR(S): Linda Jacobsen  
**5:20** Gretchen Gooding\*, U.S. Census Bureau, *American Community Survey Data and Tools for Geographers.*  
**5:40** Grace Chung\*, SANDAG; Rachel Cortes, PhD, SANDAG; Julie Wiley, SANDAG, *Assessing Language Fluency for Transit Project Areas in San Diego County Using American Community Survey Data.*  
**6:00** Beth Jarosz\*, Population Reference Bureau, *Geospatial Data and the American Community Survey.*

- 6:20** Linda A. Jacobsen, Ph.D.\*, Population Reference Bureau, *Resources for ACS Data Users: New ACS Handbooks and Online Case Studies.*

Discussant(s): Jason Jurjevich, Portland State University

**3645. The adaptation-development nexus: megacity transitions from resilience to transformation**

- Room:** *Constitution B, Sheraton, Second Floor* (Paper Session)  
 ORGANIZER(S): Matthias Garschagen, United Nations University; Mark Pelling, King's College London  
 CHAIR(S): William D. Solecki, Hunter College - CUNY  
 Introducer: William D. Solecki

- 5:33** Mark Pelling, PhD\*, King's College London; Jola Ajibade, PhD, Basille School of International Affairs; Maiko Nishi, University of Tokyo; Masumi Yamamuro, PhD, University of Tokyo; Priya Narayanaman, PhD, Anna University; William Solecki, PhD, CUNY; Ramesh Ramachandran, PhD, Anna University, *Urban risk management transitions.*

- 5:51** Matthias Garschagen, Dr.\*, United Nations University, *Future in the Making: Participatory Scenario Development on Risk and Transformation Pathways in Coastal Megacities.*

- 6:09** Joern Birkmann\*, University of Stuttgart, Institute of Spatial and Regional Planning, *Measuring vulnerability and transformation at the household scale.*

- 6:27** Idowu Ajibade, PhD\*, Balsillie School of International Affairs; Mark Pelling, PhD, Department of Geography, Kings College London; Julius Agboola, PhD, Department of Marine sciences, University of Lagos; Matthias Garschagen, PhD, Institute for Environment and Human Security(UNU-EHS), United Nations University, *Sustainability transitions: exploring risk management and the future of adaptation in Lagos.*

Discussant(s): David Simon, Royal Holloway, University Of London

**3648. Critical geographies of policing and law enforcement (Sponsored by Political Geography Specialty Group, Urban Geography Specialty Group, Ethics, Justice, and Human Rights Specialty Group)**

- Room:** *Beacon D, Sheraton, Third Floor* (Paper Session)  
 ORGANIZER(S): Steven M. Radil, University of Idaho  
 CHAIR(S): Steven M. Radil, University of Idaho

- 5:20** Alec Brownlow\*, DePaul University, *Gender and the visible/invisible dialectic of racialized policing.*

- 5:40** Nicholas Ferris Lustig\*, University at Buffalo, SUNY, *The Oakland Exception to the Spread of Real Time Crime Centers.*

- 6:00** Brian Jordan Jefferson\*, University of Illinois Urbana Champaign, *Virtual geographies of racialized policing.*

- 6:20** Steven M. Radil\*, University of Idaho; Raymond J. Dezzani, University of Idaho; Lanny D. McAden, University of Idaho, *Geographies of U.S. Police Militarization and the Role of the 1033 Program.*

Discussant(s): Richard Yarwood, Plymouth University

**3649. Critical urban theory in the 'urban age': Voices from another planet III (Sponsored by Geographic Perspectives on Women Specialty Group, Urban Geography Specialty Group, Sexuality and Space Specialty Group)**

- Room:** *Beacon E, Sheraton, Third Floor* (Paper Session)  
 ORGANIZER(S): Natalie Oswin, McGill University; Geraldine J. Pratt, University Of British Columbia  
 CHAIR(S): Natalie Oswin, McGill University

- 5:20** Rashad Shabazz\*, Arizona State University, *Is Minneapolis a Black Geography? And if it is Why the Hell does it Matter? : Prince, Place, and Sound of Minneapolis.*

- 5:40** Caroline Faria\*, University of Texas - Austin, *The Urban Intimacies of Dubai's Hair Trade.*

- 6:00** Laura Y. Liu\*, The New School, *Sweatshop City: Immigrant Community Organizing and Urban Theory.*



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**6:20** Lieba Faier\*, UCLA, *Global Scales of Violence and the Making of Urban Space in Campaigns to Fight Human Trafficking to Japan.*

**3650. Spatial Inequality, Justice and Policy IV: America (Sponsored by Regional Development and Planning Specialty Group, Urban Geography Specialty Group, Economic Geography Specialty Group)**

**Room:** *Beacon F, Sheraton, Third Floor (Paper Session)*

ORGANIZER(S): Yehua Dennis Wei, University of Utah  
CHAIR(S): Hao Huang, Illinois Institute of Technology

**5:20** Dylan Connor\*, UCLA, *The Machines of Opportunity or the Engines of Inequality? American Cities and Intergenerational Mobility over the Twentieth Century.*

**5:40** Alicia Cavanaugh\*, McGill University, *Injustice in the American City: Income and Environmental Inequality in the Urban Landscape.*

**6:00** Shenyue Jia\*, Department of Geography, University of California, Los Angeles; Erik C Porse, Institute of Environmental Sustainability, University of California, Los Angeles; Thomas W Gillespie, Department of Geography, University of California, Los Angeles; Stephanie S Pincetl, Institute of Environmental Sustainability, University of California, Los Angeles, *Socioeconomic and Spatial Determinants of Participation in Southern California Turf Replacement Initiative: A Case Study in Great Los Angeles Area.*

**6:20** Rafael Henrique Moraes Pereira, @UrbanDemog\*, University of Oxford; David Banister, Oxford University; Tim Schwanen, Oxford University; Renato Arbex, Sao Paulo University - USP, *Transport legacy of mega-events and inequality in access to opportunities.*

**3653. Politics of Geographical Education**

**Room:** *Dalton A, Sheraton, Third Floor (Paper Session)*

ORGANIZER(S): Program Committee

CHAIR(S): Jonathan M. Smith, Texas A&M

**5:20** Peter Jones, Dr\*, Keele University, *The Cultural Political Economy of Higher Education.*

**5:40** Valerian Melikidze\*, Ivane Javakhishvili Tbilisi State University, *Modelling "human society" for purposes of teaching geographies of development at university graduate level.*

**6:00** Hao Yu Liao\*, National Taiwan University, *Exploring different map-aligning strategies used by students from different academic backgrounds based on eye tracking.*

**6:20** Christopher Stanley Gorsek\*, Mount Hood Community College, *The Value of Teachers Being Involved in Politics: A Participant Observer Report from Oregon..*

**6:40** Jonathan M. Smith\*, Texas A&M, *Geography as a Dismal Science: What We Can and Cannot Learn from Professor Dryasdust..*

**3655. Human Behavior Analysis with Contextual Factors using Machine Learning (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group, Spatial Analysis and Modeling Specialty Group)**

**Room:** *Hampton A, Sheraton, Third Floor (Paper Session)*

ORGANIZER(S): Shiran Zhong, SUNY - Buffalo; Ling Bian, SUNY- Buffalo

CHAIR(S): Shiran Zhong, SUNY - Buffalo

**5:20** Emanuele Strano, Dr.\*, Massachusetts Institute of Technology (MIT); Adrian Albert, Dr., Massachusetts Institute of Technology (MIT); Marta Gonzales, Prof., Massachusetts Institute of Technology (MIT), *Deep learning to uncover urban patterns in large areas.*

**5:40** Sucharita Gopal\*, Boston University, *Characterizing Cambodia's Food, Energy and Water Securities Using Unsupervised Feature Learning & Deep Learning Neural Network.*

**6:00** Hichem Omrani\*, LISER; Bryan Pijanowski, Prof, Department of Forestry and Natural Resources, Purdue University, USA, *Reconfiguring SVM, kNN, DT and ANN to model land use change of mixed class systems: Comparing tradeoffs in goodness of fit of machine learning tools.*

**6:20** Sanglim Yoo\*, Ball State University, *Urban Heat Islands and Urban Heterogeneity: Built-Environment Vulnerability and Socioeconomic Vulnerability of Indianapolis, IN in the Eyes of Urban Planners.*

**6:40** David James Leifer\*, University of Wisconsin - Eau Claire; Carson Farmer, Ph.D., University of Colorado-Boulder; Dan van Boxel, FUBAR Labs, *Lowering the overhead costs of machine learning through the development of an unmanned grounded system neural network model: A Steelman-argument based approach to artificial intelligence.*

**3656. Perceptions, experiences, and responses to climate-related extreme events - PART 3 (Sponsored by Human Dimensions of Global Change Specialty Group, Hazards, Risks, and Disasters Specialty Group)**

**Room:** *Hampton B, Sheraton, Third Floor (Paper Session)*

ORGANIZER(S): Jennifer Marlon, Yale University

CHAIR(S): Jennifer Marlon, Yale University

**5:20** Momtaj Bintay Khalil, Ms.\*, University of Technology Sydney; Brent C Jacobs, Dr., University of Technology Sydney; Natasha Kuruppu, Dr., United Nations University, Malaysia, *Female contribution in grassroots innovation to climate change adaptation in Bangladesh.*

**5:40** Amber L. Hill\*, Kent State University, *Climate Change Perceptions and Adaptation in Resource Dependent Communities of Alaska.*

**6:00** Victoria Hyun Min Woo\*, *Modeling Heat-Related Mortality Across American Cities.*

**6:20** Daniella Hirschfeld\*, University of California - Berkeley; Kristina Hill, PhD, University of California, Berkeley, *Transformational Capacity - Exploring a Place's Ability to Change.*

**6:40** Jennifer Marlon\*, Yale University; Peter Howe, Ph.D., Utah State University; Anthony Leiserowitz, Ph.D., Yale University, *Mapping Climate Change and Heat Wave Risk Perceptions in the U.S.A..*

**3657. Re-thinking geography of sexuality: men, women, and other animals**

**Room:** *Gardner A, Sheraton, Third Floor (Paper Session)*

ORGANIZER(S): Olga Petri, University of Cambridge

CHAIR(S): Olga Petri, University of Cambridge

**5:20** Corin De Freitas\*, University of British Columbia, *Whiskers on Kittens and Puppy Dogs' Tails: Investigating Interspecies Gender Performance.*

**5:40** Morag Rose\*, University of Sheffield, *Women Walking Manchester: Gender, Public Space And Psychogeographies.*

**6:00** Olga Petri\*, University of Cambridge, *Queer streetlife: the co-production of queer environments in late imperial St. Petersburg..*

**6:20** Laura Pascoe, M.S., PhD\*, Queen's University, *Men and the Intimate Spaces of Heterosex: The Journey Towards Embracing Reflexive Masculinities.*

**3658. Indigenous Resiliency: Unity in Interdependence (Sponsored by Indigenous Peoples Specialty Group)**

**Room:** *Gardner B, Sheraton, Third Floor (Paper Session)*

ORGANIZER(S): Chantelle Richmond, The University of Western Ontario; Renee Pualani Louis, Institute of Policy and Social Research

CHAIR(S): Chantelle Richmond, The University of Western Ontario

**5:20** Chantelle Richmond\*, The University of Western Ontario,

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*For the love of family: First Nation mothers and family food provisioning.*

- 5:40** Marla R. Emery\*, USDA Forest Service; Robin W. Kimmerer, Ph.D., SUNY College of Environmental Science & Forestry; Neil V. Patterson, SUNY College of Environmental Science & Forestry, *Native Women, Climate Change, and Resilience: Voices from Maple Nation.*
- 6:00** Cindy Smithers Graeme\*, *Culture is Not Enough: Barriers to Belonging within Culture among Urban First Nations Men in London, Ontario.*
- 6:20** Joseph Brewer\*, University of Kansas; Shaylee Vandever, University of Kansas; Jay T. Johnson, University of Kansas, *Towards Energy Sovereignty: Biomass as Sustainability in Interior Alaska.*
- 6:40** Sandra Lee Ringham\*, University of Waikato, *Making space for Maori women in conservation: Nga wahine o Ngati Kuri and nature conservation in Aotearoa, New Zealand.*

## 3659. Water Resources in Higher Education (Sponsored by Water Resources Specialty Group, Geographies of Food and Agriculture Specialty Group)

**Room:** Fairfax A, Sheraton, Third Floor (Panel Session)  
 ORGANIZER(S): Philip L. Chaney, Auburn University; Mike Pease, Central Washington University  
 CHAIR(S): Philip L. Chaney, Auburn University  
 Panelists: Philip L. Chaney, Auburn University; Mike Pease, Central Washington University; Sarah J. Halvorson, Department of Geography; David Shively, University of Montana; Burrell E. Montz, East Carolina University; Richard A. Earl, Texas State University

## 3660. Metropolitan Development in the United States

**Room:** Fairfax B, Sheraton, Third Floor (Paper Session)  
 ORGANIZER(S): Program Committee  
 CHAIR(S): Stephen Buckman, University of South Florida  
**5:20** Kyle Jordan Erisman\*, West Chester University, *Casino Adoption.*  
**5:40** Martin Andersson\*, Blekinge Institute of Technology; Joakim Wernberg, CIRCLE, Lund University, *Cities and Experimental Policy - a conceptual framework.*  
**6:00** Ryan D. James, Department of Geography, Northern Illinois University; Harrison Campbell\*, University of North Carolina - Charlotte, *Cost of Living, Income Growth and Spatial Inequality.*  
**6:20** Bonnie Elizabeth Bounds\*, The Ohio State University, *Caught in the Middle: Human Capital and Industrial Composition in the Metropolitan US.*  
**6:40** Stephen Buckman, PhD\*, University of South Florida, *Arts as Economic Development in Tampa.*

## 3661. Uncomfortable theoretical fit--Debating the China model: which frame and what future? (III) (Sponsored by China Specialty Group, Urban Geography Specialty Group, Economic Geography Specialty Group)

**Room:** Jefferson, Sheraton, Third Floor (Paper Session)  
 ORGANIZER(S): Jun Zhang, University of Toronto; Yu Zhou, Vassar College; George C.S. Lin, University of Hong Kong  
 CHAIR(S): Yu Zhou, Vassar College  
**5:20** John Logan\*, Brown University, *Chinese Urbanization: Modernizing, Neoliberal, Postcolonial, and State Led.*  
**5:40** Paul Waley, School of Geography, University of Leeds; Yanpeng Jiang\*, Department of Political and Social Change at the Australian National University, *Global East: a challenge to polarized geographies.*  
**6:00** Veysel Tekdal\*, Middle East Technical University; Ceren Ergenc\*, Middle East Technical University, *Chinese Capitalism and Emerging Cities in Western China.*  
**6:20** Xuefei Ren\*, Michigan State University, *Thinking China via India and Brazil: A Historical-Comparative*

*Approach.*

- 6:40** Jun Zhang, Ph.D.\*, University of Toronto, *China through Institutional Lenses: Comparative Framings of China's Institutional Dynamics.*

## 3662. Uneven Geographical Development in China (Sponsored by China Specialty Group)

**Room:** Kent, Sheraton, Third Floor (Paper Session)  
 ORGANIZER(S): Xiaobo Su, University of Oregon  
 CHAIR(S): Christine Wen, Cornell University  
**5:20** Quanen Guo\*, East China Normal University; Bindong Sun, East China Normal University, *Does Innovation Increase or Decrease Income Inequality? Evidence from Chinese City-regions.*  
**5:40** Weibin Liu\*, Shenzhen University, China, *Spatial segregation and living experience in the attached public rental housing, a study in Shenzhen, China.*  
**6:00** Yuheng Li\*, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, *Decoding Rural Decline and the Ways of Rural Revival: The Study of China and Sweden.*  
**6:20** Christine Wen\*, Cornell University, *Engineering development in China's poor peripheries: a critical analysis.*  
**6:40** Kejia Hu\*, Zhejiang University; Xuchao Yang, Zhejiang University; Stefan Hochrainer-Stigler, International Institute for Applied Systems Analysis; Wei Liu, International Institute for Applied Systems Analysis; Linda See, International Institute for Applied Systems Analysis; Jiaguo Qi, Michigan State University, *Urban-rural variations in heat health risks: A case study of Hangzhou, China.*

## 3664. Author Meets the Critics: Brian King's "States of Disease: Political Environments and Human Health" (Sponsored by Cultural and Political Ecology Specialty Group, Health and Medical Geography Specialty Group, Development Geographies Specialty Group)

**Room:** Boylston, Marriott, First Floor (Panel Session)  
 ORGANIZER(S): Brent McCusker, West Virginia University  
 CHAIR(S): Brent McCusker, West Virginia University  
 Discussant(s): Brent McCusker, West Virginia University; Brian King, Pennsylvania State University  
 Panelists: Heidi Hausermann, Rutgers University; Abigail H. Neely, Dartmouth College; Dawn Biehler, University of Maryland Baltimore County; Eric D. Carter, Macalester College

## 3665. Emerging Scholars in Ethnic Geography (Sponsored by Ethnic Geography Specialty Group)

**Room:** Tremont, Marriott, First Floor (Paper Session)  
 ORGANIZER(S): Scott Markley, University of Georgia; Ana I. Sanchez-Rivera, University of Maryland-College Park; John Ponstingel  
 CHAIR(S): John Ponstingel  
**5:20** Emily K. Frazier\*, University of Tennessee, *Syrian Refugees in Bradford: Brothers or Intruders?*  
**5:40** Dan T. Johnston\*, Indiana University, *Refugee Resettlement in Ordinary American Cities.*  
**6:00** Cindy Ka Man Lee\*, University of Toronto, *Working through the Barrier: Chinese International Students that Work.*  
**6:20** David Morgan Chambers\*, University of Wisconsin - Madison, *Comporting Invisibility and Making Do: Vietnamese Hmong in Bangkok.*  
**6:40** Delia Walker-Jones\*, Macalester College, *Conference of the Birds: Iranian-Americans, Ethnic Business, and Identity.*

## 3666. Qualitative Methods in Human Geography, Session B

**Room:** Columbus I, Marriott, First Floor (Paper Session)  
 ORGANIZER(S): Heather Maguire, Brock University; Andrew

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Gerard McCartan, Brock University  
CHAIR(S): Kath Browne, University of Brighton  
5:20 Ann Oberhauser\*, Iowa State University, *Applying Feminist Methodologies to Global Service-Learning: Cross-cultural Collaboration in Postcolonial Contexts.*

5:40 Ritwika Biswas, MA, Doctoral Candidate, Temple University, *'Between Global South and Global North, where do I stand?' - Experiences of my fieldwork in Kolkata, India..*

6:00 Noelani Eidse, McGill University, *Self-representation on the edge of legality: Photovoice and solicited diaries as a means for tracing negotiations and dissent among street vendors in Hanoi, Vietnam.*

6:20 Kiran Bhairannavar\*, University of Delhi, *Queer(ing) qualitative methodologies: On studying men practicing same sex sexualities in Delhi, India..*

6:40 Maria Elisa Christie, PhD\*, Virginia Tech; Kaitlyn Spangler, Virginia Tech; Isabella Sereno, Virginia Tech, *Challenges using Qualitative Methods and Positionality to Integrate Gender into Research-for-Development Projects with Biophysical Scientists in Asia, Africa, And Latin America.*

## 3667. Religion, Spatiality and Place-making: Comparative and Historical Perspectives. (Sponsored by Cultural Geography Specialty Group, Geography of Religions and Belief Systems Specialty Group)

Room: Columbus 2, Marriott, First Floor (Paper Session)  
ORGANIZER(S): Mary Hancock, University of California  
CHAIR(S): Mary Hancock, University of California  
5:20 Mary Hancock, PhD\*, University of California; Mary Hancock, PhD, University of California, Santa Barbara, *Evangelical Visual Culture and Popular Geographic Knowledge in 19th century America..*  
5:40 Eliza Kent\*, Skidmore College, *Conservation in the Shadow of Religion: The Organization of Sacred Space at Ethiopian Orthodox Christian Churches.*  
6:00 Lillian I Larsen, Ph.D.\*, University of Redlands, *Pedagogical Palimpsests: Tracing the Classroom Contours of Ancient Cartography.*  
6:20 Elizabeth DePalma Digeser, Ph.D.\*, University of California, Santa Barbara, *The Belgian Borderlands and the Crusader King.*  
6:40 Emily Albu, Classics Professor\*, University of California, *Pagan and Christian Signs on the Peutinger Map.*

## 3668. Geographies of Disability 3: Inclusive Practices (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme, International Research and Scholarly Exchange Committee, Health and Medical Geography Specialty Group, Disability Specialty Group)

Room: St. Botolph, Marriott, Second Floor (Paper Session)  
ORGANIZER(S): Sandy Wong, University of Illinois at Urbana-Champaign; Andrew Myers, University of Montana; Susanne Zimmermann-Janschitz, University of Graz  
CHAIR(S): Susanne Zimmermann-Janschitz, University of Graz  
5:20 Emma Calgaro\*, University of Sydney; Emma Calgaro, Dr, University of Sydney; Dale Dominey-Howes, Ass/Prof., University of Sydney; Leilani Craig, Craigs Consultants International (CCI); Nick Craig, Craigs Consultants International (CCI), *Disability and disasters: Steps towards transformation through empowerment.*  
5:40 Robert Wilton\*, McMaster University; Joshua Evans, University of Athabasca, *"I don't know what I would have done without this job": Exploring workplace geographies of mental health recovery.*  
6:00 Anja Jørgensen\*, Aalborg University, Denmark; Mia Arp Fallov, Aalborg University, *The Village as a Social Laboratory.*  
6:20 Magdalena Ornstein-Sloan, PhD, MPH, MA\*, Sarah Lawrence College, *A place for respite: Family*

*caregiving and the built environment.*

6:40 Thomas Koch\*, University of British Columbia; Thomas Koch, University of British Columbia/Alton Medical Centre (Toronto), *No here from there: navigating transit disabilities.*

## 3669. Climate and Environmental Change in the Northeast United States III (Sponsored by Climate Specialty Group, Geomorphology Specialty Group, Water Resources Specialty Group)

Room: Regis, Marriott, Third Floor (Paper Session)  
ORGANIZER(S): Francis J. Magilligan, Dartmouth College; Jonathan Winter, Dartmouth College; Steven Silvern, Salem State University  
CHAIR(S): Steven Silvern, Salem State University  
5:20 Charles E. Button, Ph.D.\*, Central Connecticut State University, *Association Between Temperature Increases and Crop Yields in Connecticut Climate Regions From 1956 - 2015.*  
5:36 Kristen Thiebault\*, Salem State University, *Vegetation change in Northeast North America from 2000 to 2016..*  
5:52 Stephen S. Young\*, Salem State University, *Seasonal and annual snow cover extent change in northeastern North America from 2000 to 2015.*  
6:08 Norman Jones\*, Bishop's University, *Changing Winegrape Growing Conditions in southern Quebec, Canada.*  
6:24 Kunjalkumar P. Patel\*, Salem State University, *Ranking New England Cities by Social and Open Space Indicators.*  
6:40 Cristina Monfasani\*, Salem State University, *Hot and Cool Cities: Ranking and Analysis of Urban Heat Islands in New England.*

## 3670. Legibility Acts and Climate Adaptation 3 (Sponsored by Cultural and Political Ecology Specialty Group, Human Dimensions of Global Change Specialty Group, Energy and Environment Specialty Group)

Room: Northeastern, Marriott, Third Floor (Paper Session)  
ORGANIZER(S): Denielle Perry, University of Oregon  
CHAIR(S): Denielle Perry, University of Oregon  
5:20 Julia Smachylo, MSc, MUD\*, Harvard University, *Private Forests: Incentive-based Conservation in Southern Ontario.*  
5:40 Caleb Gallemore\*, Lafayette College; Kristjan Jespersen, Ph.D., Copenhagen Business School, *Seeing Like a Standard: Sustainable Palm Oil and the Coasian Challenge.*  
6:00 Sunita P. Reddy, Ph.D.\*, *Regulating Biomass as Carbon Neutral in the Biofuels Energy Landscape.*  
6:20 Brian Pompeii\*, California Polytechnic State University, San Luis Obispo, *Social Vulnerability to a Creeping Hazard: The Great California Drought in Tulare County, CA.*  
Discussant(s): Matthew Neil Fockler, Augustana College

## 3671. The Middle East: New Directions in Pedagogy and Practice (Sponsored by Middle East Specialty Group)

Room: Brandeis, Marriott, Third Floor (Panel Session)  
ORGANIZER(S): Timur Hammond  
CHAIR(S): Timur Hammond  
Panelists: Timur Hammond; Mona Atia, George Washington University; Nurcan Atalan-Helicke, Skidmore College; Karen Culcasi, West Virginia University; Amy Mills, University of South Carolina; Craig Jones, UBC

## 3672. Political and economic challenges of Europe (Sponsored by Eurasian Specialty Group, Political Geography Specialty Group, European Specialty Group)

Room: MIT, Marriott, Third Floor (Paper Session)  
ORGANIZER(S): Balázs Forman, Corvinus University of Budapest; Zoltán Gál, Kaposvár University; Centre for



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Economic & Regional Studies, HAS  
CHAIR(S): Balázs Forman, Corvinus University of Budapest  
Introducer: Balázs Forman

**5:25** Shuguang LIU\*, Ocean University of China; Chunyu LIU, Ohio State University; Han Zhang, Ocean University of China, *Spatial Dynamics of Innovation Activities in EU during 1995-2013: Initial Findings and Policy Significance.*

**5:43** Alex George Papadopoulos\*, DePaul University, *Byzantium Revival as Nationalist Statecraft: The Scholarly Debate that Shaped Modern Greek Identity.*

**6:01** Philip Brown\*, University of Salford, *Any Day Now? Working Towards the Inclusion of Roma Populations Across Europe.*

**6:19** Madeleine Eriksson\*, Umeå University, Department of Geography and Economic history; Aina Tollefsen, Department of Geography and Economic history, Umeå University, *A globalizing landscape of labor: legacies of work and mobility in peripheral Europe.*

Discussant(s): Zoltán Gál, Kaposvar University; Centre for Economic & Regional Studies, HAS

**3673. Critical Geographies of Energy 3: Energy Justice and Resistance (Sponsored by Human Dimensions of Global Change Specialty Group, Ethics, Justice, and Human Rights Specialty Group, Energy and Environment Specialty Group)**

*Room:* Boston University, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Noel Healy, Dept Geography Salem State University; Ryan Maurice Katz-Rosene, University of Ottawa; Mia Renauld

CHAIR(S): Marcos J. Luna, Salem State University  
Introducer: Marcos J. Luna

**5:21** Noel Healy, Dr.\*, Salem State University, *Reconceptualizing Energy (In)Justice: Democratizing energy system transitions, divestment and a 'just transition'.*

**5:41** Brandon Barclay Derman, PhD\*, University of Illinois, Springfield, *Emerging legal geographies: The Dakota Access pipeline conflict.*

**6:01** Carolyn Snell, Dr.\*, The University of York; Mark Bevan, Dr, Centre for Housing Policy, University of York; Ross Gillard, Department of Social Policy, University of York, *Justice, fuel poverty and vulnerable groups: a comparative analysis.*

**6:21** Mia Renauld\*, Northeastern University, *Shaped by Chevron: Evolving Entanglements from a Company Town towards a Just Transition.*

Discussant(s): Ryan Maurice Katz-Rosene, University of Ottawa

**3674. The controversial limits of DRR R&A (3): Exploring the temporal dimensions of disasters and DRR**

*Room:* Simmons, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Sebastien Nobert; Julien Rebotier, CNRS  
CHAIR(S): Julien Rebotier, CNRS

**5:20** Sarra KASRI\*, LATTs - PAE3C, *Architecture as a Risk marker - The materiality of disaster's rhythms.*

**5:40** Tim Schwanen, University of Oxford; Anna Plyusheva, University of Oxford; Nihan Akyelken, University of Oxford, *The multiple timespaces of adapting everyday life to flooding: experiences in disadvantaged neighbourhoods in Manila.*

**6:00** Vikas Lakhani\*, University of Munich, *Memory, Perceptions and Learning: DRR at work in Gujarat, India.*

**6:20** Celine Lutoff\*, University Grenoble Alpes, UMR PACTE, Grenoble, France; Isabelle Ruin, CNRS, LTHE, Grenoble, France; Jean-Dominique Creutin, CNRS, LTHE, Grenoble, France; Sylvie Duvillard, University Grenoble Alpes, UMR PACTE, Grenoble, France; Valérie Sanseverino-Godfrin, Mines Paristech, Nice, France; Séverine Durand, University Grenoble Alpes, UMR PACTE, Grenoble, France, *Rhythmicity : a new*

*scale for understanding the interactions of social and physical dynamics during short fuse natural events.*

**6:40** GUEBEN VENIERE Servane\*, LATTs University of Paris Est; CRETON-CAZANAVE Laurence, LATTs University of Paris Est; NOVEMBER Valérie, LATTs University of Paris Est, *Temporalities in crisis rooms. The example of the CCZ, SGZDS in Paris.*

**3675. Symposium on Human Dynamics in Smart and Connected Communities: Panel Session on Future Prospects of Human Dynamics in Smart and Connected Communities (Sponsored by Geographic Information Science and Systems Specialty Group, Esri, Population Specialty Group, Transportation Geography Specialty Group)**

*Room:* Suffolk, Marriott, Third Floor (Panel Session)

ORGANIZER(S): Shih-Lung Shaw, University of Tennessee; Daniel Z. Sui, The Ohio State University

CHAIR(S): Shih-Lung Shaw, University of Tennessee

Introducer: Shih-Lung Shaw

Discussant(s): Daniel Z. Sui, The Ohio State University

Panelists: May Yuan, University of Texas - Dallas; Mitchell Moss, New York University; Ming-Hsiang Tsou, San Diego State University; Dawn J. Wright, Esri; Carlo Ratti, MIT; David O'Sullivan, University of California, Berkeley

**3676. Symposium on Human Dynamics in Smart and Connected Communities: Spatial-Social Networks in GIS 5 (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group, Spatial Analysis and Modeling Specialty Group)**

*Room:* Wellesley, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Xinyue Ye, Kent State University; Xingjian Liu, University of Hong Kong; Clio Andris

CHAIR(S): Yang Xu, MIT Senseable City Lab, SMART Centre

**5:20** Emrah Söylemez\*, Çigdem Varol, Assoc.Prof.Dr., *Network Motifs of Border Regions: A Socio-Spatial Assessment for Turkish Borders.*

**5:40** Bharat Sharma\*, Northeastern University; Mary E Warner, Northeastern University; Udit Bhatia, Northeastern University; Auroop R Ganguly, Associate Professor, Northeastern University, *Cascading Interdependencies of Built and Societal Systems.*

**6:00** Adiyana Sharag-Eldin\*, Kent State University; Xinyue Ye, Kent State University; Brian Spitzberg, San Diego State University, *Analyzing the role of Actors in shaping public opinion: a case study of meme diffusion in fracking controversy.*

**6:20** Yang Xu\*, MIT Senseable City Lab, SMART Centre; Alexander Belyi, MIT Senseable City Lab, SMART Centre; Iva Bojic, MIT Senseable City Lab, SMART Centre; Carlo Ratti, Senseable City Laboratory, Massachusetts Institute of Technology, *How Friends Share Urban Space: An Exploratory Spatiotemporal Analysis Using Mobile Phone Data.*

**6:40** Zhiqi Yu\*, The Ohio State University; Ningchuan Xiao, Dr., The Ohio State University, *Relative location information retrieval in social media data.*

**3677. Author Meets Critics: Marc Doussard's Degraded Work (Sponsored by Urban Geography Specialty Group, Socialist and Critical Geography Specialty Group)**

*Room:* Harvard, Marriott, Third Floor (Panel Session)

ORGANIZER(S): David Wilson, University Of Illinois

CHAIR(S): David Wilson, University Of Illinois

Discussant(s): Kimberley Kinder, University of Michigan; Robert W. Lake, Rutgers University; Virginia Parks, Occidental College; Kevin Ward, University of Manchester; Marc Doussard, University of Illinois at Chicago



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## 3679. Land Change 4: Dynamics of Systems (Sponsored by Cultural and Political Ecology Specialty Group, Human Dimensions of Global Change Specialty Group, Energy and Environment Specialty Group)

Room: Arlington, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Richard J. Aspinall; Brian Michael Birchler; Kathryn Wenger

CHAIR(S): Kathryn Wenger

5:20 Kemen G Austin\*, Duke University; Aline Mosnier, International Institute for Applied Systems Analysis; Johannes Pirker, International Institute for Applied Systems Analysis; Ian McCallum, International Institute for Applied Systems Analysis; Steffen Fritz, International Institute for Applied Systems Analysis; Prasad Kasibhatla, Duke University, *Making the case for forest benchmarking in zero-deforestation commitments: the case of oil palm in Indonesia*.

5:40 Nicholas J. Cuba\*, Brown University; Ben Fash, Clark University; Anam Khan, Clark University; John Rogan, Clark University, *Tracing Vulnerability to Environmental Impacts Downstream from Mining in Honduras*.

6:00 Diya Paul\*, Department of Geography, Rutgers University, *Unintended Wildlife Spaces in the Eastern Ghats, India*.

6:20 Brian Michael Birchler\*, Oklahoma State University; Jacqueline M. Vadjunec, PhD, Oklahoma State University; Todd Fagin, PhD, Oklahoma Biological Survey, *Mapping vulnerability to hazards and the effects of technology on building socio-ecological resilience in America's Southern High Plains*.

6:40 Kathryn Wenger\*, Oklahoma State University; Jacqueline Vadjunec, Associate Professor, Oklahoma State University; Todd Fagin, Oklahoma Natural Heritage Inventory/Oklahoma Biological Survey, *Land-Use and Land-Cover Change (LULCC) in Union County, NM and Cimarron County, OK: A comparative study on center pivot irrigation (CPI) growth and factors influencing its use*.

## 3680. Panel Discussion: The Geography of Entrepreneurship and Entrepreneurial Ecosystems (Sponsored by AAG Careers and Professional Development Theme, Economic Geography Specialty Group, Business Geography Specialty Group)

Room: Berkeley, Marriott, Third Floor (Panel Session)

ORGANIZER(S): Elizabeth Mack, Michigan State University; Murray Rice, University of North Texas; Heike Mayer, University of Bern, SwitzerlandGeographisches Institut

CHAIR(S): Murray Rice, University of North Texas

Panelists: Edward Malecki, Ohio State University; Heike Mayer, University of Bern, SwitzerlandGeographisches Institut; Benjamin Spigel, University of Edinburgh Business School; Erik Stam; David Audretsch

## 3681. Neoliberalizing Spaces in the Philippines: Suburbanization, Transnational Migration, and Dispossession by Andre Ortega - An Author Meets Critics Panel Session (Sponsored by Cultural Geography Specialty Group)

Room: Clarendon, Marriott, Third Floor (Panel Session)

ORGANIZER(S): Joseph Palis, University of the Philippines-Diliman

CHAIR(S): Joseph Palis, University of the Philippines-Diliman

Discussant(s): Arnisson Andre Caparas Ortega, University of the Philippines; Philip Kelly, York University

Panelists: Jana Kleibert, Leibniz Institute for Research on Society and Space; Kristian Karlo Saguin, University of the Philippines

## 3683. Remote Sensing and Geographic Information Science and Systems Honors Paper Competition Part II (Sponsored by Geographic Information Science and Systems Specialty Group, Remote Sensing Specialty Group)

Room: Exeter, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Nathan S. Gill, USGS Pacific Island Ecosystems Research Center

CHAIR(S): Nathan S. Gill, USGS Pacific Island Ecosystems Research Center

5:20 Song Shu\*, University of Cincinnati; Hongxing Liu, University of Cincinnati, *Improving Satellite Waveform Altimetry Measurements Using Probabilistic Relaxation Algorithm*.

5:40 Xuebin Yang\*, The University of Texas at Austin; Kelley A. Crews, The University of Texas at Austin, *A stratified mapping of continuous woody cover in Texas savanna*.

6:00 Tianyu Li\*, Mississippi State University; Qingmin Meng, Mississippi state university, *Mixture analysis of emissivity for estimation of urban surface temperature using Landsat 8 imagery*.

6:20 Dameng Yin\*, SUNY - Buffalo; Le Wang, SUNY - Buffalo, *Individual Mangrove Crown Delineation using UAV-LiDAR Data: Possibilities and Difficulties*.

6:40 Tong Qiu\*, University of North Carolina - Chapel Hill-Chapel Hill, NC; Conghe Song, University of North Carolina - Chapel Hill-Chapel Hill, NC; Junxiang Li, School of Ecological and Environmental Sciences, East China Normal University, *characterizing the impacts of landscape structure on spatial-temporal pattern of urban and peri-urban phenology*.

## 3684. Geographies and Counter-geopolitics of Humor amid Adversity-2 (Sponsored by Political Geography Specialty Group, Qualitative Research Specialty Group, Geographic Perspectives on Women Specialty Group)

Room: Fairfield, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Jennifer Fluri, University of Colorado, Boulder; Lisa Bhungalia, University of Pittsburgh; Azita Ranjbar, Pennsylvania State University

CHAIR(S): Jessie Hanna Clark, University of Nevada

5:20 Maxwell Boykoff\*, University of Colorado, *Knowing Climate Change through Humor and Comedy*.

5:40 Ingrid L. Nelson\*, University of Vermont, *The Political Work of Forest Jokes, Parables and Rumors*.

6:00 Mélanie Evelyn Petremont\*, University of Geneva; Mélanie Evelyn Petremont, University of Geneva, « *When the Other laughs back in the Postcolony* ». *Exoticized Representations and counter-representations in Black Stand-up performances in Switzerland*.

Introducer: Jennifer Fluri

Discussant(s): Christine Eriksen, University of Wollongong

## 3685. Geographies of Degrowth, Part V: 'Subject(ivity)s' (Sponsored by Cultural and Political Ecology Specialty Group)

Room: Salon H, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Federico Demaria, Universitat Autònoma de Barcelona; Giorgos Kallis, Universitat Autònoma de Barcelona; Karen Bakker, University of British Columbia

CHAIR(S): Giorgos Kallis, Universitat Autònoma de Barcelona

Introducer: Giorgos Kallis

5:40 Dianne E. Rocheleau\*, Clark University, *Emergent Ecologies Rising: Decentering, Degrowth, Rescaling, and Regeneration in Mexico*.

6:00 Neera M. Singh\*, University of Toronto, *Cultivating Subjectivities for Convivial (De)Growth*.

6:20 Javier Lloveras, Dr.\*, Manchester Metropolitan University, *Locating Place in Degrowth: Towards a Spatially Sensitive Understanding of Degrowth*.

6:40 Angelos Varvarousis\*, Universidad Autònoma Barcelona, *Liminality and the commons towards a degrowth society*.

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## 3686. China's New Silk Road (Sponsored by Russian, Eurasian Specialty Group, China Specialty Group, Asian Geography Specialty Group)

Room: Salon I, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Stanley Toops, Miami University

CHAIR(S): Stanley Toops, Miami University

5:20 Zhouying Song\*, Institute of Geographic Sciences and Natural Resources Research, CAS; Piping Gong, Institute of Geographic Sciences and Natural Resources Research; Weidong Liu, Institute of Geographic Sciences and Natural Resources Research, *Foreign Trade Between China and "OBOR" Countries and Its Economic Impacts*.

5:40 Alexander C. Diener\*, University of Kansas, *Mongolian Mobilities as a Microcosm of Eurasia's New Silk Roads*.

6:00 Lili Wei\*, Lanzhou University; Lijuan Si, colleague; jing Zhang, graduate student, *Regional Differences in Urbanization: A Case Study of Urban Agglomerations in Northwestern China*.

6:20 Nicholas James Cosmas\*, United States Military Academy, *Imaginary Conflict: the 21st Century Maritime Silk Road and the "Rebalance to the Pacific"*.

6:40 Stanley Toops\*, Miami University, *Xinjiang and China's Belt and Road Initiative*.

## 3687. Urban parks and green space: Working for the city (3 of 3) (Sponsored by Regional Development and Planning Specialty Group, Urban Geography Specialty Group, Health and Medical Geography Specialty Group)

Room: Salon J, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Meredith Whitten, London School of Economics

CHAIR(S): Meredith Whitten, London School of Economics

5:20 Sultan Muhammad, B.S.\*, Western Michigan University, *Cultivating The Concrete Jungle: Examining Urban Agriculture in the Motor City, Detroit MI*.

5:40 Chung Shing Chan\*, Department of Geography and Resource Management, The Chinese University of Hong Kong, *Sustaining urban park management in Hong Kong: Changing managerial perspectives between 2004 and 2016*.

6:00 Jihoon Song\*, Harvard University, *Development and Validation of 'Convenience of Use' Scores for Open Spaces*.

6:20 Coline C. Dony, Ph.D.\*, University of Maryland - Baltimore County, *Healthy cities: is the ParkScore study misdiagnosing cities?*.

Discussant(s): Meredith Whitten, London School of Economics

## 3688. Understanding Learning Beyond the Conventional Classroom (Sponsored by Geography Education Specialty Group)

Room: Salon K, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Cameron Owens, University of Victoria

CHAIR(S): Cameron Owens, University of Victoria

5:20 Cameron Owens\*, University of Victoria, *Challenges and Opportunities in Evaluating Field School Learning*.

5:40 Joseph Leydon\*, University of Toronto Mississauga; Heather Wilson, University of Toronto Mississauga, *Assessing student understanding and learning outcomes through experiential learning exercises*.

6:00 Gary Coutu\*, Geography and Planning, West Chester University; Adolfo Quesada, National University Of Costa Rica, *Integrating Course Field Work and Internet Mapping Techniques: An International Classroom*.

6:20 Derek France\*, University of Chester; Katharine Welsh, University of Chester; Alice Mauchline, University of Reading; Brian Whalley, University of Sheffield; Julian Park, University of Reading, *Practitioner's Perspectives of using Bring-Your-Own-Device for Fieldwork*.

6:40 Aaron James Williams, PhD.\*, University of Calgary, *Pedagogical and Methodological Considerations in Integrating Human and Physical Geography Curriculum on International Field Study Courses in Geography*.

## 3689. All Things Nuclear in a Post-Fukushima Context: Geographical Perspectives - Panel Discussion (Sponsored by Hazards, Risks, and Disasters Specialty Group, Energy and Environment Specialty Group, Economic Geography Specialty Group)

Room: Vineyard, Marriott, Fourth Floor (Panel Session)

ORGANIZER(S): Misa Yasumiishi, University at Buffalo;

Marissa Z. Bell, University At Buffalo

CHAIR(S): Daisaku Yamamoto, Colgate University

Introducer: Daisaku Yamamoto

Panelists: John R. Mullin, University of Massachusetts, Amherst; Mitsuo Yamakawa, Teikyo University; Andrew Blowers, Open University; Chris S. Renschler, University at Buffalo (SUNY)

## 3690. Urban Economies and the Ordinary Life E: Health in Cities

Room: Yarmouth, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): John Miron, University of Toronto

CHAIR(S): Adam J. Kalkstein, United States Military Academy

5:20 Saravanan V. Subramanian\*, Centre for Development Research, University of Bonn, Germany, *Spatial Inequalities of Urban Health: Unpacking the devil in detail*.

5:40 Rita Schneider-Sliwa, University of Basel, Switzerland, Department of Environmental Sciences, Geography / Urban and Regional Studies; Adrian Egli, University Hospital, Dept. of Clinical Microbiology and Dept. of Biomedicine, Basel; Tanja Stadler, Dept. Biosystems Science and Engineering, ETH-Zurich; Claudia Saalfrank\*, University of Basel, Switzerland, Department of Environmental Sciences, Geography / Urban and Regional Studies, *Seasonal Influenza in the City of Basel and barriers to influenza vaccination. A household survey to assess household and individual factors associated with vaccination beliefs and experience, perceptions on own health and preventive measures, opportunities for exposure, information behavior on health issues, and individual characteristics*.

6:00 Warangkana Ruckthongsook\*, University of North Texas; Joseph R Oppong, University of North Texas; Chetan Tiwari, University of North Texas, *Defining Neighborhood Units Using Social Determinants of Health for HIV Surveillance in North Central Texas*.

6:20 Adam J. Kalkstein\*, United States Military Academy; Laurence S. Kalkstein, University of Miami; Jennifer Vanos, Texas Tech University; David P. Eisenman, University of California, Los Angeles, *Heat/Mortality Sensitivities in Los Angeles During Winter: A Unique Phenomenon in the United States*.

## 3691. Multispheres: Legal & Political Geographies of Geophysical Interfaces, II (Sponsored by Political Geography Specialty Group)

Room: Nantucket, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Katherine Genevieve Sammler, California State University - Maritime Academy; Zachary Paul Sugg, Colorado College

CHAIR(S): Katherine Genevieve Sammler, California State University - Maritime Academy

5:20 Ana Brasil Machado\*, PUC RIO, *Regulating urban frontiers: the case of the "ecolimites" policy (Rio de Janeiro, Brazil)*.

5:40 Ignacio Rubio C, PhD\*, Universidad Nacional Autonoma De Mexico, *Exploring the Gap Between Scientific, Political and Local Accounts of Risk and Uncertainty*

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*Related to Water in Mexico City..*

- 6:00** Zachary Paul Sugg, PhD\*, Colorado College, *Legal implications of the materiality of groundwater.*
- 6:20** Laura Matson, JD\*, University of Minnesota, *Multiple Sovereigns and Transient Resources: Contested Water Jurisdiction and Metallic Mining in the Lake Superior Watershed.*
- 6:40** Rory Rowan\*, University of Zurich, *Cosmic Legal Geographies: Asteroid Mining, NewSpace and the Contested Sovereignty in Extra-planetary Space.*

## 3692. Modeling Transportation Impacts

*Room:* Provincetown, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Kat Haessler

- 5:20** Bandhan Dutta Ayon\*, Western Michigan University, *Lake Effect Snow and Traffic Crashes: A Spatial Temporal Analysis.*
- 5:40** Shenuque Amintha Tissera\*, Hunter College, *Using TELUM to Model Economic Impact of New Ferry Services on Local Economies.*
- 6:00** Heike Flämig\*, Hamburg University of Technology; Christian Matt, Hamburg University of Technology; Kerstin Mareike Rosenberger, Hamburg University of Technology; Marcel Steffen, Hamburg University of Technology; Sören Christian Trümper, Hamburg University of Technology; Christiane Wassmann-Krohn, Hamburg University of Technology; Jutta Wolff, Hamburg University of Technology, *Challenges of empirical insights for understanding commercial transportation.*
- 6:20** FANGWU WEI\*, Arizona State University, *Legacy airlines vs. low-cost carriers: Exploring the regional characteristics and distribution similarity/dissimilarity in air fares and itinerary pricing in the United States.*
- 6:40** Kat Haessler, Ph.D.\*, Huntsville Madison County Airport Authority (HMCAA) & University of Alabama, Huntsville (UAH), *Methods in Modeling Airspace.*

## 3693. Mobile bodies, technologies and methods: critical perspectives (Sponsored by Cultural Geography Specialty Group)

*Room:* Orleans, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Phil Jones, University of Birmingham; Tess Osborne, University of Birmingham

CHAIR(S): Tess Osborne, University of Birmingham

- 5:20** Gentry Powell Hanks\*, Queen's University; Gentry Hanks, Queen's University, *Diabetes and the Quantified Self: Hacking Hard, Fleshy Interfaces.*
- 5:40** Phil Jones\*, University of Birmingham; Tess Osborne, University of Birmingham, *Urban space, biosensing and embodiment: a mixed methods approach.*
- 6:00** Nina Sharp\*, Aberystwyth University, *"It didn't happen if it's not on Strava!": Using competitive social media as a measure of sporting accomplishment and motivation.*
- 6:20** Helen Roberts\*, University of Birmingham; Helen Roberts, University of Birmingham, *Investigating the emotional responses of individuals to urban green spaces: A case study and critical review of different methods.*

Discussant(s): Simon Cook, Royal Holloway, University of London

## 3694. Contradictions of the Climate Friendly City 3: Critical Perspectives on Urban Climate Change Mitigation and Adaptation (Sponsored by Political Geography Specialty Group, Cultural and Political Ecology Specialty Group)

*Room:* Hyannis, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Jennifer L. Rice, University of Georgia; Daniel Aldana Cohen, University of Pennsylvania; Joshua Long, Southwestern University

CHAIR(S): Daniel Aldana Cohen, University of Pennsylvania

- 5:20** David Ciple\*, Environmental Studies, University of Colorado Boulder; Jill Harrison, Department of

Sociology, University of Colorado Boulder, *"Mapping tensions in movements for a just and sustainable transition".*

- 5:40** Sara Fuller\*, Macquarie University, *Activism and climate responsibility in the city: reflections from Hong Kong and Singapore.*

- 6:00** Chaeri Kim\*, PennDesign City and Regional Department, *Troubled Infrastructure and Uneven Impacts on Population: A Case Study during Hurricane Sandy.*

- 6:20** Linda Shi\*, Massachusetts Institute of Technology; Isabelle Angelovksi, Universitat Autònoma de Barcelona, Spain; Eric Chu, University of Amsterdam; Daniel Gallagher, Massachusetts Institute of Technology; Kian Goh, University of California, Los Angeles; Zachary Lamb, Massachusetts Institute of Technology; Kara Reeve, RTI International; Hannah Teicher, Massachusetts Institute of Technology, *Equity Impacts of Urban Land Use Planning for Climate Adaptation: Critical Perspectives from the Global North and South.*

- 6:40** Joshua Long\*, Southwestern University, *Theorizing Contradictions in the Climate-Friendly City: Progress and Future Research.*

## 3695. Issues in (air)port cities and global cities

*Room:* Falmouth, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Jeanne-Hélène Jugie, Université De Montreal; Claude Comtois, University of Montreal

CHAIR(S): Jeanne-Hélène Jugie, Université De Montreal

- 5:20** Nathan Hutson\*, University of Southern California, *China's One Belt, One Road Initiative and the Future Economic Geography of Eurasia.*

- 5:40** Jeanne-Hélène Jugie\*, Université De Montreal, *The political ecology of port-city relationships: the case of Montreal.*

- 6:00** Thomas Sigler\*, University of Queensland, *Globalizing Australian Cities: The Spatial Distribution of Economic Activity Through Firm-Level Data.*

- 6:20** Analía García\*, MIT, *Rapid growth and fast decline in cities of extraction. Comparative approach on urban temporalities and social change in Argentina and Chile.*

Discussant(s): Jeanne-Hélène Jugie, Université De Montreal

## 3696. Experiments in Force V: Technologies of Policing (Sponsored by Political Geography Specialty Group)

*Room:* Maine, Marriott, Fifth Floor (Panel Session)

ORGANIZER(S): Nick Lally, University of Wisconsin -

Madison; Emily Kaufman, University of Kentucky

CHAIR(S): Nick Lally, University of Wisconsin - Madison

Discussant(s): Tyler Wall; Anna Feigenbaum, Bournemouth

University; Jeremy Crampton, University of Kentucky;

Emily Kaufman, University of Kentucky

Panelists: Mathew Coleman, Ohio State University; Nicole

Nguyen, University of Illinois - Chicago; Javier

Arbona, UC Davis

## 3697. Conservation Law Enforcement III: Discussion Panel (Sponsored by Cultural and Political Ecology Specialty Group, Animal Geography Specialty Group)

*Room:* Massachusetts, Marriott, Fifth Floor (Panel Session)

ORGANIZER(S): Francis Masse, York University; William Moreto, University of Central Florida

CHAIR(S): Francis Masse, York University

Discussant(s): Elizabeth Lunstrum, Department of Geography

Panelists: Rosaleen Duffy, University of Sheffield; Francis

Masse, York University; William Moreto, University of

Central Florida; Meredith L. Gore, U.S. Department Of

State; Stephen Pires; Victoria Hollie Grant, University

of British Columbia; Michael Slattery, Texas Christian

University; Jared Margulies, Department of Geography

and Environmental Systems, UMBC; Xolani Nicholas

Funda, SANParks



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**3698. Geographies of Ecosystem Services: From Maps to Policy Implementation III (Sponsored by Geographic Information Science and Systems Specialty Group, Remote Sensing Specialty Group, Spatial Analysis and Modeling Specialty Group)**

*Room:* New Hampshire, Marriott, Fifth Floor (Paper Session)

ORGANIZER(S): Muna Shah, University of Texas At Dallas; Anthony Ravindra Cummings, University of Texas at Dallas

CHAIR(S): Anthony Ravindra Cummings, University of Texas at Dallas

**5:20** L. Monika Monika Moskal, PhD, University of Washington, *Measurement and Monitoring of Forest Ecosystem Services: Case Studies from the Pacific Northwest, USA.*

**5:40** Leticia Gomez Mendoza, Professor\*, Universidad Nacional Autonoma de Mexico UNAM; Gabriela Carranza Ortiz, Master on Sciences, UNAM, *Ecosystem based adaptation in Mexican south coastal wetland communities.*

**6:00** Benjamin Kennady\*, University of Texas; Anthony Ravindra Cummings, University of Texas at Dallas, *The effects of fire on indigenous-landscapes in Guyana.*

Discussant(s): Anthony Ravindra Cummings, University of Texas at Dallas

**3699. The relationships between airport-driven impacts and urban areas' social-spatial patterns 3 (Sponsored by Transportation Geography Specialty Group)**

*Room:* Vermont, Marriott, Fifth Floor (Paper Session)

ORGANIZER(S): Frederic Dobruszkes, Brussels University (ULB); Andrew R. Goetz, University of Denver

CHAIR(S): Andrew R. Goetz, University of Denver

**5:20** Sonia Huderek-Glapska\*, Poznan University of Economics and Business; Jacek Jankiewicz, Poznan University of Economics and Business, *Economic fluctuations, air transport dynamics, and the impact of aviation in the regions in Central and Eastern Europe.*

**5:40** Jie Huang\*, Institute of Geographic Sciences and Natural Resources Research, CAS; Jiaoe Wang, Institute of Geographic Sciences and Natural Resources Research, CAS, *Understanding structures of hub-and-spoke networks with indirect connectivity in air transportation.*

**6:00** Jakub Gazda\*, Poznan University of Economics and Business, *The Role of Airports in Regions' Development in Europe - Bayesian Approach.*

**6:20** Mattia Cattaneo\*, University of Bergamo; Paolo Malighetti, University of Bergamo; Chiara Morlotti, University of Bergamo; Renato Redondi, University of Bergamo, *The impact of airports' connectivity on human capital immigration: A longitudinal analysis.*

**6:40** Han Wang\*, Jiaoe Wang, *The evolution law and influencing mechanism of global aviation hubs.*



**FRIDAY, April 7 • 7:10 PM - 8:10 PM • 3700****3708. Bible Geography Specialty Group Business Meeting  
(Sponsored by Bible Geography Specialty Group)***Room: Room 109, Hynes, Plaza Level (Meeting Session)***3712. Coastal and Marine Specialty Group Business Meeting  
(Sponsored by Coastal and Marine Specialty Group)***Room: Room 201, Hynes, Second Level (Meeting Session)***3731. Energy and Environment Specialty Group Business Meeting  
(Sponsored by Energy and Environment Specialty Group)***Room: Room 311, Hynes, Third Level (Meeting Session)***International Reception: Celebrating the International Encyclopedia of Geography - Special Event***Room: Ballroom B, Hynes, Third Level*

Friday, April 7, 7:00 p.m. - 9:00 p.m.

This reception is an opportunity to see old friends and meet colleagues at the AAG Annual Meeting. There will be food, drinks, music, and interaction with IEG authors and editors. All attendees are invited to attend. Two free drink tickets are provided in your registration packet.

**3765. Legal Geography Specialty Group Business Meeting  
(Sponsored by Legal Geography Specialty Group)***Room: Tremont, Marriott, First Floor (Meeting Session)***3768. Paleoenvironmental Change Specialty Group Business Meeting  
(Sponsored by Paleoenvironmental Change Specialty Group)***Room: St. Botolph, Marriott, Second Floor (Meeting Session)***3769. Remote Sensing Specialty Group Business Meeting  
(Sponsored by Remote Sensing Specialty Group)***Room: Regis, Marriott, Third Floor (Meeting Session)***3782. Socialist and Critical Geography Specialty Group Business Meeting  
(Sponsored by Socialist and Critical Geography Specialty Group)***Room: Dartmouth, Marriott, Third Floor (Meeting Session)***3792. Spatial Analysis and Modeling Specialty Group (Sponsored  
by Spatial Analysis and Modeling Specialty Group)***Room: Provincetown, Marriott, Fourth Floor (Meeting Session)***FRIDAY, April 7 • 8:10 PM - 9:10 PM • 3800****3836. AAG International Reception: Celebrating the International Encyclopedia of Geography - Special Event***Room: Ballroom B, Hynes, Third Level (Special Event Session)*

This reception is an opportunity to see old friends and meet colleagues at the AAG Annual Meeting. There will be food, drinks, music, and interaction with IEG authors and editors. All attendees are invited to attend. Two free drink tickets are provided in your registration packet. Music provided by Flipside.

**3865. Middle East Specialty Group Business Meeting (Sponsored by  
Middle East Specialty Group)***Room: Tremont, Marriott, First Floor (Meeting Session)***3868. Private/Public Affinity Group Business Meeting (Sponsored  
by Private/Public Affinity Group)***Room: St. Botolph, Marriott, Second Floor (Meeting Session)***3869. Retired Geographers Affinity Group Business Meeting  
(Sponsored by Retired Geographers Affinity Group)***Room: Regis, Marriott, Third Floor (Meeting Session)***3882. Stand-Alone Geographers Affinity Group Business Meeting  
(Sponsored by Stand-Alone Geographers Affinity Group)***Room: Dartmouth, Marriott, Third Floor (Meeting Session)***3892. Study of the American South Specialty Group Business Meeting  
(Sponsored by Study of the American South Specialty Group)***Room: Provincetown, Marriott, Fourth Floor (Meeting Session)*



*Presenting author(s) are indicated with an asterisk (\*).*

*For special events, please see the Special Events & Meetings Summary on pages 60-66.*

*For the Key to Session Numbers & Room Numbers, please see pages 96-97.*

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# SATURDAY, April 8 • Poster Sessions

## Physical Geography Poster Session II - Featured Session

Room: Hall C, Hynes, Second Level

Poster setup: 7:30 a.m. - 8:00 a.m.

Poster display and discussion: 8:00 a.m. - 11:40 a.m.

- Woojin SHIM\*, Seoul National University; Soojin Park, Seoul National University, *Poster #001: applicability assessment of Soil erosion models using 137Cs method.*
- Yan Tao\*, *Poster #002: The Effect of Different Land-Use Types on Diversity of Soil Fauna in Saline Soil Region of Bohai Bay.*
- Xiuqin Yin\*, School of Geographical Sciences, Northeast Normal University, *Poster #003: Characteristics of soil microfauna communities in salinity habitats of the summer Songnen Grasslands.*
- Derek Joseph Martin, Ph.D.\*, Appalachian State University, *Poster #004: Stream Bank Erosion in Páramo Ecosystems: Potential for Fluvial Export of Organic Carbon.*
- Yu Sun, University of North Georgia\*, Institute for Environmental & Spatial Analysis, University of North Georgia; Redahegn Sileshi, University of North Georgia, Department of Physics, University of North Georgia, *Poster #005: Modeling Urban Flooding in Upper Chattahoochee River Watershed using SWMM.*
- Asia Leah Dowtin\*, University of Delaware, *Poster #006: Hydrological fluxes from mixed deciduous urban forest fragments in Wilmington, Delaware.*
- Yasin Wahid Rabby\*, University of Tennessee; Md. Abdur Rob, Dr., University of Dhaka; Md. Humayun Kabir, Dr., University of Dhaka, *Poster #007: Spatio-Temporal Variability of Rainfall in Bangladesh from 1980 to 2014.*
- Amanda B. Young\*, Penn State University; Koichi Takahashi, PhD, Shinshu University; Alan H. Taylor, PhD, Penn State University, *Poster #008: Does Tree-Ring Formation Reveal Localized Effects of Volcanic Activity?.*
- Rosemary Dwight\*, Texas A&M University; David Cairns, Dr, Texas A&M University, *Poster #009: The Potential and Rate of Shrub Expansion on the North Slope of Alaska.*
- J.T. Fry, Virginia Tech; Lynn M Resler\*, Virginia Tech; John Jelesko, Virginia Tech; Scotland Leeman, Virginia Tech; Trice Tyler, Virginia Tech, *Poster #010: A regional biogeography of "The Familiar Stranger" ? poison ivy (Toxicodendron radicans).*
- Victoria Trucksess\*, *Poster #011: Precipitation and Population Variability on South Carolina Firefly Populations.*
- Yapeng Chen\*, State Key Laboratory of Desert and Oasis Ecology, Xinjiang Institute of Ecology and Geography, CAS; Yaning Chen, State Key Laboratory of Desert and Oasis Ecology, Xinjiang Institute of Ecology and Geography, CAS; Yuyang Wang, State Key Laboratory of Desert and Oasis Ecology, Xinjiang Institute of Ecology and Geography, CAS; Weihong Li, State Key Laboratory of Desert and Oasis Ecology, Xinjiang Institute of Ecology and Geography, CAS, *Poster #012: Water uptake of desert riparian plants in northwest China's extreme arid region.*
- Alexandra Filipovic\*, Clark University; John Rogan, Ph.D., Clark University, *Poster #013: Modeling the hydrological ecosystem services of juvenile trees in Worcester, Massachusetts.*
- Tsun Fung AU\*, Department of Geography; School of Biological Sciences, The University of Hong Kong; Jinbao LI, Department of Geography, The University of Hong Kong; Teng LI, Department of Geography, The University of Hong Kong; Ze-Xin FAN, Key Laboratory of Tropical Forest Ecology, Xishuangbanna Tropical Botanical Garden, Chinese Academy of Sciences; Wai Sum MA, Department of Earth Sciences; Department of Ecology and Biodiversity, The University of Hong Kong, *Poster #014: Species-specific tree growth response to climate on the southeastern Tibetan Plateau.*
- Amy Cutter\*, Boise State University; David Wilkins, Boise State University, *Poster #015: A Tree-Ring Based Climate Reconstruction of Coral Pink Sand Dunes, UT.*
- Jennifer Guerra Sánchez\*, Student Graduate; Jacyra Soares, Doctor Professor at University of São Paulo, *Poster #016: Cospectra of momentum and heat fluxes at Brazilian Antarctic Station.*
- Kaleigh Cunningham\*, Kutztown University of Pennsylvania, *Poster #017: Thunderstorms and Excessive Heat in Southern Pennsylvania.*
- Joshua Conner\*, University of Cincinnati, *Poster #018: Long-Term Growth and Establishment Patterns of Saguaro Cacti at Saguaro National Park.*
- Shoudong Zhao\*, Beijing Normal University; Yuan Jiang, Beijing Normal University; Neil Pederson, Harvard University, *Poster #019: Climatic sensitivity of Qinghai spruce growth along an elevation gradient in the Helan Mountains, China.*
- Brennan W Young, MS, Texas A&M University, Center for GEOSAT; Michael P Bishop, PhD, Texas A&M University, Center for GEOSAT; Da Huo, MS, Texas A&M University, Center for GEOSAT, *Poster #020: Geomorphometric Characterization of Topographic and Lithological Variations in the Karakoram, Himalaya.*
- Brittney Dubois\*, Bridgewater State University, *Poster #021: Changing Geography of the Mill River: Implications for American Eel and Herring Habitat.*
- Lei Meng\*, Western Michigan University, *Poster #022: Spatial patterns of drought persistence in East China.*
- Tiffany Amber DeBoer\*, Jacksonville State University, *Poster #023: ENSO and Tornado Frequency in Alabama.*
- Christopher Zemp\*, University of Arizona - Geography & Development, *Poster #024: Assessing the potential of a western US tree-ring network to track the spatial-temporal variability of the ENSO dipole.*
- Damián León Guevara\*, Student Graduate; Ida Mitrani Arenal, Investigator, *Poster #025: Analysis of the cold footprint generated by tropical cyclones in 2004 and 2005 seasons.*
- Molly Wieringa\*, Harvard University; David A Orwig, Harvard Forest; Neil Pederson, Harvard University, *Poster #026: From the Ground Up: Development of Eastern Hemlock Growth for the Seedling, Understory, and Canopy Layers.*
- Cesar R. Castillo\*, Texas A&M University; Inci Guneralp, Texas A&M University, *Poster #027: Hydrodynamic modeling of hydrologic surface connectivity within a coastal river-floodplain system.*
- Jessica A. Geary\*, William Paterson University; Rose C. Oelkers, Lamont Doherty Earth Observatory; Chandler M. Reyes, William Paterson University; Nicole K. Davi, Lamont Doherty Earth Observatory, *Poster #028: Generating new ultra-sensitive temperature reconstructions in Mongolia using blue intensity reflectance.*
- J. Michael Daniels\*, University of Denver, *Poster #029: Agricultural legacy sediments in Czech Pluzina Landscapes.*
- Grace Roman\*, Valparaiso University, *Poster #030: Relationship between canopy gaps and understory vegetation Northwest Indiana.*
- Xingming Hao\*, Xinjiang Institute of Ecology and Geography, Chinese academy of Sciences, *Poster #031: Oasis effects and its influence on temperature.*
- Caili Hu\*, Beijing Normal University; Yuzhen Ma, Beijing Normal University; Hongwei Meng, Yunnan Normal University, *Poster #032: Using pollen analysis to*



# SATURDAY, April 8 • Poster Sessions

- identify seasonal deposition in Zhen Lake, China.  
Meizhao Lv, Ph.D\*, Institute of Atmospheric Physics, Chinese Academy of Sciences; Tsinghua University, *Poster #033: Hydrology performance Assessment of GLDAS-1.0 prevailing land surface models: A case study of carbon-water cycle.*
- Sarah Blakeley\*, University of California, *Poster #034: Rainfall Variability in West Africa.*
- Yichi Zhang\*, IGSNRR; Jingjie Yu; Ping Wang, *Poster #035: The relationship between vegetation and groundwater in the hyper-arid region.*
- Carly Robbins\*, Clark University; Donna Rizzo, PhD, University of Vermont; Mandar Dewoolkar, PhD, University of Vermont, *Poster #036: Verification of the Sedimeter as a Turbidity, Erosion, and Scour Sensor.*
- Warren Scott\*, Clark University, *Poster #037: Regional-scale winds and storminess as drivers of sea ice variability in polynyas of the Pacific Arctic region.*
- Shouzhong Peng\*, Northwest A&F University; Yang Cao, Northwest A&F University; Yunming Chen, Northwest A&F University; Yakun Tang, Northwest A&F University, *Poster #038: Spatiotemporal change and trend analysis of potential evapotranspiration over the Loess Plateau of China during 2011-2100.*
- Victoria Taylor Roberts\*, SUNY - Geneseo, *Poster #039: Nutrient Loading Risk Assessment in the Genesee River Watershed.*
- Yakun Tang, 90095808\*, Northwest A&F University; Yang Cao, 90091598, Northwest A&F University; Yunming Chen, 90091597, Northwest A&F University; Shouzhong Peng, 90091626, Northwest A&F University, *Poster #040: Water consumption characteristics and physiological adjustments of Pinus tabulaeformis and Hippophae rhamnoides in pure and mixed plantations in the semiarid Loess Plateau of China.*
- Zachary Merrill\*, University of Tennessee; Henri Grissino-Mayer, University of Tennessee; Bryan Murray, Drake University, *Poster #041: Dendrochronological Analyses on the Effects of Moose Herbivory on Forests of Isle Royale National Park, lake Superior, U.S.A..*
- Daniel Hou\*, Texas A&M University; Parveen K Chhetri, PhD Candidate, Texas A&M University, *Poster #042: Tree-Ring Growth Pattern of Betula utilis at Treeline Ecotone at Dhorpatan Hunting Reserve, western Nepal.*
- Lillian Kelli McAfee\*, Texas A&M; Parveen K. Chhetri, Texas A&M University, *Poster #043: Tree-ring climate response of Abies spectabilis from sub-alpine forest of Dhorpatan hunting reserve, Western Nepal..*
- Stephen J Kreller\*, Louisiana State University, *Poster #044: Correlating Storm Surge Heights with Tropical Cyclone Central Pressure at and before Landfall.*
- Ryan Charles Lingo\*, Department of Geography and Environmental Planning, Towson University; Todd W. Moore, Department of Geography and Environmental Planning, Towson University, *Poster #045: Long-term trend analysis and changes to the mean and variability of temperature in Pennsylvania from 1983 to 2014.*
- Colleen M. Garrity\*, SUNY-Geneseo; Carrie Lang\*, SUNY Geneseo, *Poster #046: Moisture Profiles of Surface Drought and Wet Conditions in North America.*
- Philipp Marr\*, Geographisches Institut Rheinische Friedrich-Wilhelms-Universität Bonn; Jörg Löffler, Geographisches Institut Rheinische Friedrich-Wilhelms-Universität Bonn, *Poster #047: Investigation of alpine blockfields in south-western Norway - Implication of the vertical ice sheet extent of the Late Weichselian ice sheet.*
- Wang Jing\*, Wuhan University; Lin Yifan, Student, Peking University, College of Urban and Environmental Sciences; He Ting, China Land Surveying and Planning Institute, Ministry of Land and Resources, *Poster #048: The temporal and spatial changes in ecological land-use types in China.*
- Keli Zhang, Beijing Normal University; Yue Yu\*, Beijing Normal University, *Poster #049: Evaluation of the influence of cultivation period on soil redistribution in northeastern China using magnetic susceptibility.*
- Samantha M. Jones, Assistant Professor, Geography Department\*, Bemidji State University, Bemidji MN; Douglas Kastendick, Forester, USDA Forest Service, Northern Research Station, Grand Rapids MN; Brian J. Palik, Team Leader / Research Ecologist, USDA Forest Service, Northern Research Station, Grand Rapids MN; Alessandra Bottero, PostDoc, Swiss Federal Institute for Forest, Snow and Landscape Research WSL, Birmensdorf, Switzerland, *Poster #050: Silvicultural thinning methods and drought response in managed red pine forests.*
- Lisa M. Kennedy\*, Virginia Tech; Chance Raso, Graduate Student, Virginia Tech, *Poster #051: A 3000-yr Record of Fire from Sedimentary Charcoal in a Rare Appalachian Pitch Pine Bog.*
- Yuzhen Ma\*, Beijing Normal University; Mingxin Tao, Beijing Normal University; Dandan Li, Beijing Normal University, *Poster #052: The significance of Pinus sylvestris as a paleo-environmental indicator in Mongolian plateau and surrounding areas.*
- Colin J Long\*, University of Wisconsin Oshkosh; Mitchell J Power, University of Utah, Natural History Museum of Utah; Laurie D Grigg, Norwich University, *Poster #053: A 35,000-year Fire History from the Oregon Coast Range, USA.*
- Hem K. Pokharel\*, University of Rhode Island; Dr. Soni M Pradhanang, University of Rhode Island; Dr. Arthur J. Gold, University of Rhode Island; Kelly Addy, University of Rhode Island, *Poster #054: Nutrient simulation of surface water in Aquidneck Island, Rhode Island.*
- Nick Barbre\*, Auburn University; Philip Chaney, PhD, Auburn University, *Poster #055: Irrigation and Certificate of Use Compliance in the Wiregrass Region of Alabama.*
- Phoebe L. Ferguson\*, Earth and Environmental Sciences, Furman University; C. Brannon Andersen, Earth and Environmental Sciences, Furman University; John E. Quinn, Biology, Furman University; Gregory P. Lewis, Biology, Furman University; Emily E. Kirby, Earth and Environmental Sciences, Furman University; Miles Hauser, Earth and Environmental Sciences, Furman University, *Poster #056: Effect of Silvopasture Grazing on Soil Quality in the Piedmont Region of the Southeastern United States.*
- Woonsup Choi\*, University of Wisconsin-Milwaukee; Hi-Ryong Byun, Pukyong National University; Claudio Cassardo, University of Turin, *Poster #057: Meteorological and Streamflow Droughts: Characteristics, Trends and Propagation in the Milwaukee River Basin, Wisconsin.*
- Breanna Parker\*, Smith College, *Poster #058: Land-Surface and Water Flow on Smith Campus.*
- Ruth Marie Neils\*, Smith College, *Poster #059: Modeling a Stormwater runoff neutral campus.*
- Victoria Raquel Ochoa\*, *Poster #060: A GIS-based multi-criteria assessment of vulnerability on Smith Campus.*
- Liz A. Drinkwater\*, *Poster #061: A network-based vulnerability analysis of food systems and supply chains on Smith Campus.*
- Emily Hitchcock\*, *Poster #062: Climate change, flood plains and environmental injustices in Hampshire County (MA).*
- Michelle Mei\*, *Poster #063: Past land-use, micro-climates and plant diversity in New England forests.*
- Desislava Stoyanova\*, *Poster #064: Modeling flood plains and urban flooding in Hampshire County, MA.*
- Kelly Theresa Lawlor\*, *Poster #065: The Changing Trend in Songbirds, Abundance, Variety and Physical Condition*

# SATURDAY, April 8 • Poster Sessions

- an Exploratory Case Study in Connecticut.*  
Prabisha Shrestha\*, Kentucky State University; Buddhi Raj Gyawali, Kentucky State University; Jeremy Sandifer, Kentucky State University; Bishwa Acharya, Earth Mapping International; Tilak Shrestha, Kentucky State University; Bijesh Mishra, Kentucky State University; Oguz Sariyildiz, Kentucky State University, *Poster #066: Land cover change and forest fragmentation in Pike County, Kentucky.*
- Katherine Amelia Castagno\*, Woods Hole Oceanographic Institution; Jeffrey P Donnelly, PhD, Woods Hole Oceanographic Institution, *Poster #067: Grain-size analysis of hurricane-induced event beds in a New England salt marsh.*
- Anthony Marc-Daniel Olivito\*, University of Windsor; Chris Houser, University of Windsor, *Poster #068: Identifying Beach and Nearshore States at "Hot Spot" Drowning Locations in the Great Lakes.*
- Samuel Fixler\*, Connecticut College; Douglas M Thompson, PHD, Connecticut College: Physics, Astronomy and Geophysics, *Poster #069: Hyporheic Flow Processes within Lamprey (Petromyzon marinus) Redds on The Blackledge River, in Marlborough, Connecticut.*
- Jeffrey Lazar\*, Miami University - Oxford, OH; Rachel Spahr, Miami University; Bartosz Grudzinski, Dr., Miami University, *Poster #070: Sediment and Nutrient Transport across Land Uses during Storm Events in Southwest Ohio.*
- Clayton J Whitesides\*, Coastal Carolina University; Ralph E Whitesides, Utah State University, *Poster #071: Topographic variables and weed control in mountain environments.*
- Lisa Davis\*, University of Alabama; Rachel Lombardi\*, University of Alabama; Gary Stinchcomb, Murray State University; Matthew Therrell, University of Alabama; Matthew Gage, University of Alabama; Sarah Sherwood, University of the South; Lance Stewart, Murray State University, *Poster #072: A regional paleoflood analysis for the eastern U.S., implications for extreme flood frequency.*
- Lauren Michelle Lyon\*, East Tennessee State University; Timothy Andrew Joyner, Dr., East Tennessee State University, *Poster #073: Predicting the Current Range of Ailurus fulgens: Habitat Preferences and Conservation Implications.*
- Sarah Anderson\*, Bemidji State University, *Poster #074: Moose on the Edge: An Examination of the Environmental Determinants in the Historical Variation of Moose Edge Populations in North America.*
- William T. Flatley, Ph.D.\*, University of Central Arkansas; Frances C. O'Donnell, Ph.D., Auburn University; Peter Z. Fulé, Ph.D., Northern Arizona University; Abraham E. Springer, Ph.D., Northern Arizona University, *Poster #075: Linking Climate Change, Wildfire, and Forest Management to the Conservation of Water in the Southwest.*
- Peter B Boucher\*, University of Massachusetts Boston; Crystal B Schaaf, University of Massachusetts Boston; Ian Paynter, University of Massachusetts Boston; Edward Saenz, University of Massachusetts Boston; Francesco Peri, University of Massachusetts Boston; David A Orwig, Harvard Forest, Harvard University, *Poster #076: The Spatial Distribution of Mortality Brought about by an Invasive Pest in Harvard Forest, MA, USA.*
- Joshua John Hatzis\*, University of Oklahoma; Harold Brooks, Ph.D., National Severe Storms Laboratory; Aondover Tarhule, Ph.D., University of Oklahoma, *Poster #077: Spatial Patterns on Tornado Days.*
- Ashley N. Moyer, Shippensburg University; Timothy W. Hawkins\*, Shippensburg University, *Poster #078: River Effects on the Heat Island of a Small Urban Area.*
- Christine Purdy\*, University of Michigan-Dearborn; Jacob Napieralski, University of Michigan-Dearborn, *Poster #079: Characterizing the Hyporheic Zone in the Lower Rouge River (SE MI): A Comparison of Soil and Water Characteristics by Stream Order.*
- Shannon L Jones, MS\*, University of Denver; Michael C. Slattery, PhD., Texas Christian University, *Poster #080: Spatio-temporal relationships of near-surface soil moisture and vegetation in a Grand Prairie hillslope-headwater system.*
- Ashleigh Reeves\*, East Tennessee State University; Hartney Deegan, East Tennessee State University; Joseph Harris, Louisiana State University; Timothy A Joyner, East Tennessee State University, *Poster #081: Effects of subsidence and sea level rise on coastal storm surge inundation, extent, and economic loss along the United States Gulf Coast.*
- Dana M Harris, B.Sc. \*, Brock University; Michael F.J. Pisaric, Ph.D., Brock University; Jean-Phillipe Martin, Ph.D., Brock University, *Poster #082: Assessing factors influencing the growth and cellular development of the Jack pine (Pinus banksiana) in Yellowknife, NT.*
- Lesleigh Anderson\*, United States Geological Survey; Max Berkelhammer, University of Illinois at Chicago; Rebecca L Brice, University of Arizona, *Poster #083: Holocene seasonality in south-central Alaska from intra-annual isotopes of remnant spruce wood.*
- Karli R Riley\*, Berry College; Rhett Allen, Berry College; Zachary P Taylor, Berry College, *Poster #084: Late-Holocene paleofire records from three lakes in western Colorado.*
- Meghan Jo Albritton\*, Berry College; Zachary P Taylor, Berry College, *Poster #085: A 7,000 year record of fire dynamics from Meridian Lake, Colorado.*
- Chelsea N Anderson\*, Berry College; Zachary P. Taylor, Ph.D., Berry College; Chad S. Lane, Ph.D., University of North Carolina Wilmington, *Poster #086: Holocene vegetation and fire history from Clear Pond, South Carolina.*
- Javier Nunez Villalba, Msc\*, Universidad Mayor de San Andres, *Poster #087: Lake Titicaca an oasis in the height of the Andes.*
- Andrew J. Massey, Physical Scientist\*, USGS, *Poster #088: USGS New England Tide and S WaTH Network.*
- Elizabeth Jane Wallace\*, Woods Hole Oceanographic Institution; Jeffrey Donnelly, Woods Hole Oceanographic Institution; Kelly Mckee, Northeastern University; Charlotte Wiman, Northeastern University; Tyler Winkler, Texas A&M University; Richard Sullivan, Texas A&M University; Pete Van Hengstum, Texas A&M University, *Poster #089: Paleohurricane Activity over the Past Millenium in the Bahamas.*
- Aaron Berlin Flores\*, Texas Tech University, *Poster #090: Creating a Heat Vulnerability Index for Lubbock, Texas.*
- Alex Holland\*, CoreLogic, *Poster #091: Determining wind driven hail risk using CoreLogic® hazard data.*
- David A. Strohsehein, PhD\*, Salem State University, *Poster #092: A Small Unmanned Aerial Vehicle as a Taskable System for Measuring Atmospheric Temperature.*
- Adam Corey Jessup\*, Lehman College, *Poster #093: Locating sites for potential macroalgae (S. latissima) farms in Long Island Sound: a GISc approach to suitability analysis.*
- Tempest McCabe\*, Boston University; Elizabeth Cowdery, Boston University; Michael Dietze, Associate Professor, Boston University, *Poster #094: Validating the Ecosystem Demography Model Version2 for Southern Pine Forests.*
- Erinn Hasselgren\*, Salem State University, *Poster #095: Piping Plover Habitat Analysis in the Parker River National Wildlife Refuge, Massachusetts.*

# SATURDAY, April 8 • Poster Sessions

- Aspen Paige Stuedemann\*, Ferris State University, *Poster #096: Climate Affect on Growing Degree Days in Populus tremuoides of Mid-Michigan.*
- Erianto Indra Putra\*, South Dakota State University; Yenni Vetrira, South Dakota State University; Mark A Cochrane, South Dakota State University; Israr Albar, DG of Climate Change, Ministry of Environment and Forestry, Jakarta, Indonesia; Laura Graham, Borneo Orangutan Survival Foundation (BOSF), Palangkaraya, Indonesia, *Poster #097: Understanding Indonesian Peat Fire Occurrences and Tendencies.*
- Christine Marie Lucas, Dr.\*, Universidad de la Republica de Uruguay; Alex Ferreira, Facultad de Ciencias, Universidad de la República, Uruguay; Paulina Puchi, MSc., Pontificia Universidad Católica de Valparaíso, Chile; Ludmila Profumo, Dr., Universidad de la República, Uruguay; Ariel Muñoz, Dr., Pontificia Universidad Católica de Valparaíso, Chile, *Poster #098: Tree ring growth response to climate and stream flow in subtropical Southeast South America: Uruguay.*
- Nicholas James Sokol\*, Towson University; Todd W Moore, Dr., Towson University, *Poster #099: The Influence of ENSO on Nocturnal and Diurnal Tornado Activity in the United States.*
- Rupsa Bhowmick\*, Louisiana State University; Jill C. Trepanier, Louisiana State University, *Poster #100: Atmospheric Dust Impact on Tropical Cyclone Activity over Eastern Australia/ Southwest Pacific Ocean Region: A comparative Study between Different ENSO and MJO Phases.*
- Anna Schulz\*, UW-Platteville; Lynnette Dornak, Ph.D, University of Wisconsin Platteville, *Poster #101: Predicting current and future potential distribution of one invasive honeysuckle in North America.*
- Mingzhu Du\*, Capital Normal University; Xile Cao, Capital normal university, *Poster #102: Seasonal changes of canopy chlorophyll in mangrove forests under different submerged conditions.*
- Lucas James Porter\*, South Dakota State University, *Poster #103: Canadian Lynx Suitable Habitat Areas.*
- Mahsa Sadeghpour\*, University of Nevada - Reno; Adam Csank, University of Nevada, Reno; Kimberly Monk, Department of Archaeology & Anthropology, Bristol University, UK, *Poster #104: Wood Source Identification in Bermuda Museum of Underwater Shipwrecks.*
- Kemal Gökkaya, Environmental Change Initiative, University of Notre Dame; Milan Budhathoki\*, Center for Research Computing, University of Notre Dame; Sheila Christopher, Environmental Change Initiative, University of Notre Dame; Brittany Hanrahan, Environmental Change Initiative, University of Notre Dame; Jennifer Tank, Environmental Change Initiative, University of Notre Dame, *Poster #105: Validation of Tile Detection Using GIS and Remote Sensing Based Methods in a Midwest Agricultural Watershed.*
- Tim Roesler, Dr.\*, Philipps-Universität Marburg; Markus Hassler, Prof. Dr., Philipps-Universität Marburg; Nicolai Dellmann\*, Philipps-Universität Marburg, *Poster #106: Integrated farming: an approach for sustainable food and biomass production.*
- Ciara L. Miller\*, University of Wisconsin - Platteville; Caleb D. Cizauskas, University of Wisconsin - Platteville; Micah J. Darling, University of Wisconsin - Platteville; Rebecca T. Hempe, University of Wisconsin - Platteville; Cody A. Mitchem, University of Wisconsin - Platteville; Christopher A. Underwood, University of Wisconsin - Platteville, *Poster #107: Holocene Sediment Records of Fire History in the Kickapoo River Watershed, Wisconsin.*
- Yue Zhang\*, Carnegie Mellon University, *Poster #108: Grain Production capacity Analysis and Evaluation of Jiangnan Plain, China.*
- Arvind Aniel Rombawa Bhuta\*, USDA - US Forest Service - Southern Region; Andrew Aniel Rombawa Evans, Department of Geography, Texas A&M, *Poster #109: Determining landscape restoration priorities for National Forest landscapes in Alabama.*
- Taryn Pifer\*, West Virginia University; Brenden McNeil, West Virginia University; Henry Liebermann, West Virginia University, *Poster #110: Gradients of tree species composition within the West Virginia University Research Forest.*
- Ruth Ann Stetler\*, West Virginia University; Kristen K. de Graauw, West Virginia University; Alex Dye, West Virginia University; Amy Hessel, West Virginia University, *Poster #111: Exploring mesoscale disturbance in eastern North American forests using a tree-ring database.*
- Kristen K de Graauw\*, West Virginia University, *Poster #112: Historic structures as ecological archives: a case study in the central Appalachian region.*
- Shuiqing Yin\*, School of Geography, Beijing Normal University, Beijing 100875, China; Zhonglei Wang, Department of Statistics, Iowa State University, Ames 50011, USA.; Zhengyuan Zhu, Department of Statistics, Iowa State University, Ames 50011, USA.; Xukai Zou, National Climate Center, China Meteorological Administration, Beijing 100081, China; Wenting Wang, School of Geography, Beijing Normal University, Beijing 100875, China, *Poster #113: Using Kriging with heterogeneous measurement error to improve the accuracy of extreme precipitation return levels estimation.*
- Wenting Wang\*, Beijing Normal University; Shuiqing Yin, Beijing Normal University; Dennis Flanagan, USDA-ARS National Soil Erosion Research Laboratory, Purdue University; Bofu Yu, Australian River Institute and School of Engineering, *Poster #114: Assessment of CLIGEN precipitation generation with one-minute and hourly data.*
- Lori Wachowicz\*, University of Georgia; Thomas Mote, University of Georgia, *Poster #115: Atmospheric Circulation and Surface Energy Budget Associated with Rain-Enhanced Snow Melt Events in Eastern US.*
- Clement A. Alo\*, Montclair State University; Felix M. Oteng, Montclair State University, *Poster #116: A pilot study on understanding hydrologic variability for sustainable management of water resource in the Passaic River Basin, New Jersey.*
- Sara Ates\*, Louisiana State University, *Poster #117: Height Evolution of the Maximum Divergence Field in Gulf-Atlantic Tropical Cyclogenesis.*
- Yao Zhou\*, Department of Geography, University of Florida; Corene Matyas, Department of Geography, University of Florida, *Poster #118: Rainfall Size and Variability of U.S. Landfalling Tropical Cyclones over Land and Ocean.*
- Kimberly Arlene Blazzard\*, East Tennessee State University; Ingrid Luffman, Dr., East Tennessee State University; Andrew Joyner, Dr., East Tennessee State University, *Poster #119: Teleconnection and climate effects on Florida sinkholes - a stepwise multiple linear regression approach.*
- Flavia Dias De Souza Moraes\*, University of Georgia, *Poster #120: Cold fronts associated with Mesoscale Convective Complexes in southern Brazil.*
- Andrew Sven McCall, Jr.\*, University of Vermont Department of Geography, Vermont State Climatology Office, *Poster #121: Streamgage Prediction in the Northeast.*
- Cory William Ott\*, Adams State University, *Poster #122: Postglacial Paleoclimatic Fluctuations Driving Terrace Development in the Southeastern San Juan Mountains of Colorado, USA.*



## SATURDAY, April 8 • Poster Sessions

Candace Alena Fleck\*, Adams State University, *Poster #123: How Geomorphology Benefits Archaeology.*

Arnold Fernandes\*, Boston University; William Kearney, Boston University; Sergio Fagherazzi, Dr., Boston University, *Poster #124: The impact of extreme storm surges on Middle Atlantic coastal forests..*

Robert Altimus Rust\*, University of Wyoming; Thomas Minckley, PhD, University of Wyoming, *Poster #125: Disturbance mediated diversity change over the Holocene in subalpine forests.*

Brianne Quinn Hart\*, SUNY - Geneseo, *Poster #126: Influence of former pasture trees on the regeneration of black walnut (Juglans nigra) in a successional woodlot, Geneseo, NY.*

Leah Bournival\*, Mount Holyoke College; Kim Diver, Wesleyan University, *Poster #127: A Dendrochronological Record of Twentieth Century Water Levels in Georgian Bay, Ontario, Canada.*

Sarah Jones\*, East Carolina University, *Poster #128: Longshore Spatial Variability of Shorelines and Dunelines in Cape Cod National Seashore.*

Linda Kennedy, Dr.\*, Mansfield University, *Poster #129: Aeolian sand and calcium carbonate accumulation in glacio-fluvial deposits: Evidence of ice sheet stagnation..*

Matthew P. Dannenberg\*, University of North Carolina at Chapel Hill; Conghe Song, University of North Carolina at Chapel Hill; Erika K. Wise, University of North Carolina at Chapel Hill, *Poster #130: Tree Rings Reveal Climate and Land Surface Constraints on Primary Production at the Continental Scale.*

Adelaide Kellett\*, Pennsylvania State University, *Poster #131: Disturbance Regimes in Stone Valley Forest, Huntington PA.*

Andrea Grace Davis\*, Ferris State University, *Poster #132: Jackpine Budworms effect on Michigan Forrests.*

Karen Jordan\*, University of South Alabama, *Poster #133: Teaching Physical Geography, Landscape Processes and Patterns Online.*

Clifton Mahlon Simmons\*, Adams State University, *Poster #134: Geoarchaeological Study within the South Fork-Rio Grande and Upper Rio Grande Basins.*

Helen Poulos\*, Wesleyan University Middletown, CT; Helen M Poulos, PhD, Wesleyan University, *Poster #135: Effects of adaptive management on plant community structure and function in Nantucket Island coastal sand plains, USA.*

Kayla Coonen\*, University of Wisconsin - Eau Claire; Garry Running, University of Wisconsin - Eau Claire, *Poster #136: Soils and Land Use at the Henning's Lonesome Apple Tree Ridge Site, Eau Claire County, Wisconsin.*

Zach T. Hilgendorf\*, Minnesota State University, Mankato; Rick Moore, Minnesota IT Services; Melissa Swanson, Minnesota State University, Mankato; Johnathan Salfer, Minnesota State University, Mankato; Devon Libby, Minnesota State University, Mankato; Phillip H. Larson, PhD, Minnesota State University, Mankato; Mackenzie Richards, Minnesota State University, Mankato; Brendan Batzlaff, Minnesota State University, Mankato, *Poster #137: Refining and evaluating a method of hydro-modification of LiDAR derived DEMs in agricultural land-use dominated watersheds. County Ditch 57 watershed, Minnesota, USA..*

Anika Tabassum\*, Indiana University; Darren L. Ficklin, Assistant Professor; Tae Hee Hwang, Assistant Professor; Scott Robeson, Professor, *Poster #138: Assessment of the Impact of Land Use and Land Cover Changes on Streamflow: A Case Study in Bloomington, Indiana.*

Kelsey E Meisenholder\*, Clark University; Karen E Frey, Ph.D., Clark University; Gregory J Fiske, M.S., Woods Hole Research Center; Robert Max Holmes, Ph.D., Woods

Hole Research Center, *Poster #139: Monitoring impacts of fire on permafrost degradation and lake morphology in the Yukon-Kuskokwim Delta, Alaska 1985-2015 using satellite imagery.*

Joseph B. Harris\*, Louisiana State University; Timothy Andrew Joyner, East Tennessee State University; Robert V. Rohli, Louisiana State University, *Poster #140: Comparison of Inverse Distance Weighted Interpolation and Kriging Methods in Estimating Subsidence Rates in the Lower Mississippi River Industrial Corridor.*

Klaus J. Bayr\*, Keene State College, *Poster #141: Are Glaciers Good Indicators of Global Warming? The Recessions of the Pasterze Glacier, Austria..*

Rachel Spahr\*, Miami University; Jeff Lazar, Miami University; Bartosz Grudzinski, Miami University, *Poster #142: Analyzing River Characteristics to Determine Sediment and Nutrient Drivers in Southwest Ohio Rivers.*

Mandy Munro-Stasiuk\*, Kent State University; Corrine Coakley, Kent State Geography Dept.; James Tyner, Kent State University; Sokvisal Kimsroy, Kent State University; Stian Rice, Kent State University, *Poster #143: Documenting the extent and style of the Khmer Rouge irrigation infrastructure, Cambodia.*

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# SATURDAY, April 8 • 8:00 AM - 9:40 AM • 4100

Poster Sessions for Saturday are located on pages 322-326.

## 4101. Author Meets Critics: Robert Ross's "The Great Baseball Revolt: The Rise and Fall of the 1890 Players League"

**Room:** Room 101, Hynes, Plaza Level (Panel Session)  
 ORGANIZER(S): Don Mitchell, Syracuse University  
 CHAIR(S): Don Mitchell, Syracuse University  
 Introducer: Don Mitchell  
 Discussant(s): Natalie R. Koch, Syracuse University; Robert B. Ross, Point Park University  
 Panelists: Margaret M. Gripshover, Western Kentucky University; Matt Huber, Syracuse University; Bradley Gardener, Temple University; Michael Friedman, University of Maryland; Neil Conner, University of Tennessee

## 4102. Geographies of Climate and Weather

**Room:** Room 102, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): Program Committee  
 CHAIR(S): Weiming Hu, Pennsylvania State University  
**8:00** Qirui Zhong\*, Laboratory for Earth Surface Processes, College of Urban and Environmental Sciences, Peking University, Beijing 100871, China.; Shu Tao, Laboratory for Earth Surface Processes, College of Urban and Environmental Sciences, Peking University, Beijing 100871, China., *Global estimates of carbon monoxide emissions from 1960 to 2013.*  
**8:20** Miaoni Gao\*, State Key Laboratory of Earth Surface Processes and Resource Ecology (ESPRE), Beijing Normal University, Beijing 100875, China; Jing Yang, State Key Laboratory of Earth Surface Processes and Resource Ecology (ESPRE), Beijing Normal University, Beijing 100875, China; Bin Wang, Department of Meteorology, and International Pacific Research Center, University of Hawaii at Manoa, Honolulu, Hawaii 96822, USA; Siyuan Zhou, Academy of Disaster Reduction and Emergency Management Ministry of Civil Affairs and Ministry of Education, Beijing Normal University, Beijing 100875, China; Daoyi Gong, State Key Laboratory of Earth Surface Processes and Resource Ecology (ESPRE), Beijing Normal University, Beijing 100875, China; Seong-Joong Kim, Korea Polar Research Institute, Division of Climate Change, Incheon, South Korea, *How are heat waves over Yangtze River Valley associated with atmospheric quasi-biweekly oscillation?*  
**8:40** Ying Cheng\*, College of Urban and Environmental Sciences, Peking University, Beijing, 100871, China; Hongya Wang, College of Urban and Environmental Sciences, Peking University, Beijing, 100871, China; Hongyan Liu, College of Urban and Environmental Sciences, Peking University, Beijing, 100871, China, *Environmental Changes over the Last 5520 Years from an Alpine Lake (3410 m a.s.l.) on Taibai Mountain, Central China.*  
**9:00** Hyoun A Lee\*, Seoul National University; Jong Seo Yim, Seoul National University; Chan Woong Kim, Seoul National University, *Asian Monsoon Variation revealed by the speleothem records from Pyeonghang, Korea.*  
**9:20** Weiming Hu\*, Pennsylvania State University, *Local Humidity Prediction Using an Analog Ensemble.*

## 4103. Author-Meets-Critics: Susan Craddock's Compound Solutions: Pharmaceutical Alternatives for Global Health

**Room:** Room 103, Hynes, Plaza Level (Panel Session)  
 ORGANIZER(S): Miranda Joseph, University of Arizona  
 CHAIR(S): Miranda Joseph, University of Arizona  
 Introducer: Miranda Joseph  
 Panelists: Miranda Joseph, University of Arizona; Gail Davies, University of Exeter; Abigail H. Neely, Dartmouth College; Matthew Sparke, University of Washington; Susan Craddock, University of Minnesota

## 4104. Catching up with the frontier of innovation 1 (Sponsored by Economic Geography Specialty Group, Business Geography Specialty Group)

**Room:** Room 104, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): Jung Won Sonn, University College London; Robert Hassink, Dept. of Geography, University of Kiel  
 CHAIR(S): Robert Hassink, Dept. of Geography, University of Kiel  
**8:00** Michael Dunford\*, Chinese Academy of Sciences, *Uneven and combined development.*  
**8:20** Sam Ock Park\*, Seoul National Univ, *Evolution of Ambidextrous Organization: From Catching-up to Forging Ahead?*  
**8:40** Sharmistha Bagchi-Sen\*, SUNY-Buffalo, *Innovation and Development in India.*  
**9:00** Jung Won Sonn\*, University College London, *Does a foreign firm create an R&D enclave? Comparing US firms and local firms in their knowledge spillovers in Chinese cities.*  
 Discussant(s): Harald Bathelt, University of Toronto

## 4105. Planning the (White) City: Neoliberal Urbanism and the Rise of the Homogenous City, Session I (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme, Urban Geography Specialty Group, Historical Geography Specialty Group)

**Room:** Room 105, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): Aretina Rochelle Hamilton, University of Kentucky  
 CHAIR(S): Aretina Rochelle Hamilton, University of Kentucky  
**8:00** Akira Drake Rodriguez\*, PennDesign, *Demobilization by Demolition: State Suppression of Marginalized Political Spaces in Atlanta.*  
**8:20** Aretina Rochelle Hamilton\*, University of Kentucky, *"Do Not Panic:" White Resistance to Black Spatialization in Atlanta, Georgia.*  
**8:40** Kevin Keenan\*, College of Charleston, *What is Terror Violence? Understanding Terrorism Through the Charleston AME Church Massacre.*  
**9:00** Russell L. Stockard\*, California Lutheran University, *Talking the (White) City in the Neoliberal World Order: Gentrification Discourse in New Orleans.*  
**9:20** Erin Lilli\*, City University of New York, *Abstract: Perceptions of Neighborhood Change: Place Identity, Resistance and the Social Production of Space.*

## 4106. Territorial Articulations and Shifting Legal Geographies: Indigenous and Native Rights in the Americas 1 (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme, Cultural and Political Ecology Specialty Group, Indigenous Peoples Specialty Group)

**Room:** Room 107, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): Sarah Kelly-Richards, School of Geography and Development, University of Arizona; Joel E. Correia, University of Colorado, Boulder  
 CHAIR(S): Sarah Kelly-Richards, School of Geography and Development, University of Arizona  
**8:00** Lucero Radonic, PhD\*, Michigan State University, *Property and Life: The right to water in Indigenous struggles.*  
**8:20** Isaac Rivera\*, The University of Colorado, *Vectors of Dispossession: Towards a Quantitative Political Ecology for Indigenous Peoples' Self Determination in Eastern Nicaragua.*  
**8:40** Deondre Smiles\*, The Ohio State University, *"...to the grave..."--Biopolitics, Governmentality and Indigenous Counter-Conduct.*  
**9:00** Elizabeth Steyn, BA LL.B. LL.M. LL.D. Candidate, Faculty of Law\*, Université De Montreal, *The Winnemem Wintu, Spiritual Warfare, and Legal Formalism, or: The Bureaucrat's Guide to Sacred Indigenous Sites.*  
**9:20** Kari Forbes-Boyte\*, Dakota State University; Kari L

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Forbes-Boyte, Ph.D., Dakota State University, *The Gap in Between: Boundaries and Borders in a Multi-cultural Context.*

## 4107. Historical Geography: Asia and Australia

Room: Room 108, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Jonathan Christopher Martin, University of Western Australia

8:00 Xiaohong Zhang\*, Fudan University; Hongzhong Zhuang, Institute of Chinese Historical Geography, *The preliminary research on the Ordos mission maps drawn by CICM.*

8:20 Weiwei Yuan\*, *The explanation on the selection of settlement and environment in Haidong Prefecture, Qinghai Province during the Middle Holocene Epoch.*

8:40 Brian Zottoli, PhD\*, Loyola University Chicago, *Impacts of Extreme Climate Variability on Vietnamese States c. 1590-1945.*

9:00 Lingfei Wu\*, University of Michigan, *Zhu Zhengyuan and Coastal Surveying and Mapping: from Perspective of cartographic history in Late Imperial China.*

9:20 Jonathan Christopher Martin, Ph.D Candidate\*, University of Western Australia, *Evolution in the historical geography of the Swan River.*

## 4108. The Labor Geographies of Digital Studies: Theories, Methods, and Interdisciplinary Engagements (Sponsored by Geographic Perspectives on Women Specialty Group, Sexuality and Space Specialty Group)

Room: Room 109, Hynes, Plaza Level (Panel Session)

ORGANIZER(S): Jen Jack Giesekeing, Trinity College; Daniel M. Greene, Microsoft Research

CHAIR(S): Daniel Joseph, Ryerson University

Panelists: Jen Jack Giesekeing, Trinity College; Gregory T. Donovan, Fordham University; Daniel M. Greene, Microsoft Research; Daniel Joseph, Ryerson University; Karen Gregory, University of Edinburgh

## 4109. Animal Geographies 1: More than human relationships (Sponsored by Animal Geography Specialty Group)

Room: Room 110, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): RDK Herman, National Museum of the American Indian

CHAIR(S): Kelly Jean Measom, Oak Ridge National Laboratory

8:00 Arun Das S\*, University of Mysore, India; KIMOTO Koichi, Kwansei Gakuin University, JAPAN, *Uncertainty, Complex and Overlapping Laws of Forest Buffer Zone of South India- Proposing for Amalgamated Forest Related Regional Governance.*

8:20 Jason La Brosse\*, Northeastern Illinois University, *Modeling the intersection of human and animal geographies in an urban environment: A case study of commodified pet populations in Chicago, Illinois.*

8:40 Noel Hawkins\*, Simon Fraser University, *Fear and Love in the Vancouver Aquarium.*

9:00 Verena Schroeder\*, Catholic University of Eichstätt-Ingolstadt, *Pragmatist animal geographies: Towards a transactional view of human-animal relations.*

9:20 Kelly Jean Measom\*, Oak Ridge National Laboratory; Eric Weber, Oak Ridge National Laboratory; Adam Alsamadisi, University of Tennessee, Department of Geography, *Human-Black Bear Interactions: A Geospatial Predictive Model.*

## 4110. Assessing Biomass Health

Room: Room 111, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Dusty Joel Pilkington, Central Washington University

8:00 Sam Drury Cooper\*, South Dakota State University;

David P Roy, PhD, South Dakota State University, *Examination of the Potential of Structure-from-Motion Photogrammetry and Terrestrial Laser Scanning for Rapid Nondestructive Field Measurement of Grass Biomass.*

8:20 Chance Raso\*, Virginia Tech; Lisa M Kennedy, PhD, Virginia Tech; R Stockton Maxwell, PhD, Radford University, *Forest Dynamics within a Globally Rare Pitch Pine Bog in Central Appalachia Using Tree Rings and Vegetation Analysis.*

8:40 \*Kendra L. McMillin, West Chester University; Joy Fritschle, West Chester University, *An Assessment of Urban and Suburban Forest Restoration Efforts in Chester County, Pennsylvania.*

9:00 Brett Goforth\*, California State University - San Bernardino, *Serotinous pine cone opening and dispersal by debris flows in the Transverse Range, California..*

9:20 Dusty Joel Pilkington\*, Central Washington University; Megan K Walsh, Dr., Central Washington University, *Two Holocene Fire Records At The Sagebrush Steppe/ Podersosa Pine Ecotone In The Wildland-Urban Interface, Green And Cambpbbell Lakes, Okanogan County, Wa.*

## 4111. Politics, contestations and its mechanism in mega urban project in China

Room: Room 200, Hynes, Second Level (Panel Session)

ORGANIZER(S): Yanpeng Jiang, School of Geography, The University of Hong Kong; Renfeng MA

CHAIR(S): Yanpeng Jiang, School of Geography, The University of Hong Kong

Panelists: Yi Jin, London School of Economics; Jane Hayward, Tsinghua University; Renfeng MA; Jingwei Sun

## 4112. An exploration of dark(er) liminal spaces in tourism (Sponsored by Recreation, Tourism, and Sport Specialty Group)

Room: Room 201, Hynes, Second Level (Paper Session)

ORGANIZER(S): Robert S. Bristow, Westfield State University

CHAIR(S): Robert S. Bristow, Westfield State University

8:00 Nitasha Sharma\*, Indiana University Bloomington, *Liminality, ethics and perceptions towards death.*

8:20 Robert S. Bristow\*, Westfield State University; Ian S. Jenkins, Ph.D., University of Iceland, Háskóli Íslands, *Dark liminal spaces in fright tourism.*

8:40 Marion Karl, LMU Munich, *The role of risk perception in travel decision-making and destination choice.*

9:00 Maggie Christine Miller\*, University of Waterloo, *Exploring Climbing Sherpas' stories of death and disaster as moments of liminality.*

9:20 Velvet Nelson\*, Sam Houston State University, *The Difficult Conversation about Slavery at Heritage Museums.*

## 4113. Reparations, Restitution, Reconciliation? Part 1

Room: Room 202, Hynes, Second Level (Paper Session)

ORGANIZER(S): Emily Gilbert, University of Toronto

CHAIR(S): Emily Gilbert, University of Toronto

8:00 Melanie Sommerville\*, Dept of Geography, UBC, *Agrarian repair: Farming, race, and the politics of 'reparative capitalism' in contemporary Canada and South Africa.*

8:20 Tyler McCreary\*, Florida State University, *The Cost of Compensation for Colonial Dispossession.*

8:40 Dawn Aurea Beth Hoogeveen, PhD\*, University of British Columbia; Terre Satterfield, PhD, University of British Columbia, *Registering Reconciliation within Environmental Assessment in Canada.*

9:00 Carlota Mcallister\*, York University, *Repairing the future to under the present: the value of "society" in dam relocation negotiations in Chilean Patagonia.*

9:20 Jon D. Unruh, PhD\*, McGill University; Jon Unruh, PhD, McGill University, *Land and Property Restitution in*

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## ISIL Liberated Areas of Northern Iraq.

### 4114. Author Meets Critics: Elizabeth Povinelli's Geontologies: A Requiem for Late Liberalism (Sponsored by Cultural and Political Ecology Specialty Group)

**Room:** Room 203, Hynes, Second Level (Panel Session)  
 ORGANIZER(S): Elizabeth R. Johnson, Hobart & William Smith Colleges; Garnet Kindervater, Dartmouth College  
 CHAIR(S): Garnet Kindervater, Dartmouth College  
 Discussant(s): Elizabeth R. Johnson, Hobart & William Smith Colleges  
 Panelists: Treva Ellison; Keith Woodward, University of Wisconsin; Garnet Kindervater, Dartmouth College; Elizabeth Povinelli, Columbia University; Jason Read, University of Southern Maine

### 4115. Living the Me Generation: Overcoming the institution through intentionality

**Room:** Room 204, Hynes, Second Level (Paper Session)  
 ORGANIZER(S): Justine Cuevas; Kaylan Edward Hager, San Jose State University; Alma Gutierrez  
 CHAIR(S): Justine Cuevas  
 8:00 Kaylan Edward Hager\*, San Jose State University, *Building the Hive: From the Ground Up*.  
 8:20 Eric Wilhelm\*, San Jose State University, *Cities Hosting the Olympic Games: Worth the Gold?*.  
 8:40 Alma Daisy Gutierrez, Graduate Student, SJSU; Alma Daisy Gutierrez\*, SJSU, *Intentional Communities: What we learned*.  
 9:00 Amber Marie Villa, Graduate Student\*, San Jose State University, *ADHD, Autism Spectrum Disorder and the Power of Alternative Learning Styles*.  
 9:20 Justine Lynn Cuevas\*, San Jose State University, *Millennial Escapism: Experimental Behaviors of the Festival Participant*.

### 4116. 'Doing' memory research differently (I) (Sponsored by Qualitative Research Specialty Group, Cultural Geography Specialty Group)

**Room:** Room 205, Hynes, Second Level (Paper Session)  
 ORGANIZER(S): Danielle Drozdowski, UNSW; Carolyn Jade Birdsall, University of Amsterdam  
 CHAIR(S): Danielle Drozdowski, UNSW  
 8:00 Danielle Drozdowski\*, UNSW; Carolyn Jade Birdsall\*, University of Amsterdam, *Sounds of commemoration: performing identity on 4-5 May in Amsterdam*.  
 8:20 Charlotte Heath-Kelly\*, University of Warwick, *Affect, Deathly Resonance and Memory Activism at the Ground Zero Mosque and Bali Bombsite*.  
 8:40 Jacquelyn Micieli-Voutsinas\*, Wilfrid Laurier University, *Feeling Absence, Sensing Presence: Negotiating Affective Heritage in Places of Trauma*.  
 9:00 Tess Osborne, University of Birmingham, *Biosensing and understanding memories through the body*.  
 9:20 David Jones Marshall\*, Durham University, *Public histories/private places: Mapping and Mediatizing Memory in Nablus, Palestine*.

### 4119. Infrastructures of Waste: Managing the Abject, Discarded, and Disposable. (Sponsored by Political Geography Specialty Group, Urban Geography Specialty Group)

**Room:** Room 210, Hynes, Second Level (Paper Session)  
 ORGANIZER(S): Mohammed Rafi Arefin, University of Wisconsin - Madison - Madison, WI; Rosalind Fredericks, New York University  
 CHAIR(S): Rosalind Fredericks, New York University  
 8:00 Colin McFarlane\*, Durham University, *Waste, infrastructure, body: reforming political urbanisms*.  
 8:20 Sophia Stamatopoulou-Robbins\*, Bard College, *Improvised Infrastructures under Waste Siege: Discard Publics in Palestine*.  
 8:40 Brenda Chalfin\*, University of Florida, *Excreta2Energy:*

## Human Waste as Laboratory for Capital in Urban Ghana.

9:00 Rosalind Fredericks, New York University, *Modernizing the Dump: Infrastructural Labors and Embodied Precarities in Dakar's Wastescape*.  
 9:20 Mohammed Rafi Arefin\*, University of Wisconsin - Madison - Madison, WI, *The Abject in History: thinking with and beyond the politics of (in)visibility*.

### 4120. Physical Geography Poster Session II

Posters for this session can be found on pages 322-326.  
**Room:** Hall C, Hynes, Second Floor (Poster Session)  
 \*\*\* Continued into next slot, 4220

### 4121. Transformative Research in Geography Education

**Room:** Room 301, Hynes, Third Level (Panel Session)  
 ORGANIZER(S): Michael N. Solem, American Association of Geographers  
 CHAIR(S): Michael N. Solem, American Association of Geographers  
 Introducer: Richard G. Boehm  
 Discussant(s): Michael N. Solem, American Association of Geographers  
 Panelists: Thomas Larsen, Kansas State University; Patricia A. Solis, Texas Tech University - Lubbock, TX; Niem Huynh, American Association of Geographers; Rebecca Theobald, University of Colorado Colorado Springs

### 4122. Terrain Analysis and Environmental Modeling

**Room:** Room 302, Hynes, Third Level (Paper Session)  
 ORGANIZER(S): Program Committee  
 CHAIR(S): Tongxin Zhu, University of Minnesota  
 8:00 Liangjun ZHU\*, Institute of Geographic Sciences and Natural Resources Research, CAS, China; AXING ZHU, Department of Geography, University of Wisconsin-Madison, Madison, WI 53706, USA; ChengZhi QIN, State Key Lab of Resources and Environmental Information System, Institute of Geographic Sciences and Natural Resources Research, CAS, Beijing 100101, China; JunZhi LIU, Jiangsu Center for Collaborative Innovation in Geographical Information Resource Development and Application, Nanjing, Jiangsu 210023, China, *An Automatic Approach of Prototype-based Fuzzy Slope Positions inference method*.  
 8:20 Meimei Zhang\*, Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, *Modeling Temporal Variations in Microwave Backscattering from Reed Marshes*.  
 8:40 Hai Hu\*, WuHan University; Lian You, WuHan University; Peng Hu, WuHan University, *Preliminary analysis of digital elevation model definitions*.  
 9:00 MANISH KUMAR PANDEY\*, School of Environmental Sciences, JNU; AL. Ramanathan, Professor, School of Environmental Sciences, JNU; Shyam Ranjan, Dr., School of Environmental Sciences, JNU; Naveen Kumar, Mr., School of Environmental Sciences, JNU; Thupstan Anchuk, Mr., School of Environmental Sciences, JNU; Arindan Madal, Mr., School of Environmental Sciences, JNU; Sarvagya Vatsal, School of Environmental Sciences, JNU; Mohd Soheb, Mr., School of Environmental Sciences, JNU; Aman Arora, Mr., Department of Geography, Faculty of Natural Sciences, Jamia Milia Islamia, New Delhi-110025, *Geospatial approach to estimation of pattern of erosion and deposition in the Chhota Shigri glaciarised valley, Western Himalaya*.  
 9:20 Tongxin Zhu\*, University of Minnesota, *An integrated approach for studying soil erosion processes in a semi-arid, complex-terrain agricultural watershed*.



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## 4123. Indigenous Water Governance: Global geographies of water governance in Indigenous communities (Sponsored by Energy and Environment Specialty Group)

Room: Room 303, Hynes, Third Level (Paper Session)

ORGANIZER(S): Karen Bakker, University of British Columbia; Jennifer Baka, Pennsylvania State University

CHAIR(S): Jennifer Baka, Pennsylvania State University

8:00 Caolan Barr\*, University of Toronto, *Colonial Obstructions: Dams and the Mapping of Epistemic Settler Violence on Treaty #3 Territories*.

8:20 Alice Cohen\*, Acadia University, *Community-Based Monitoring and Traditional Ecological Knowledge: A snapshot from Canada*.

8:40 Teresa Cavazos Cohn, PhD\*, University of Idaho - Moscow, ID; Kate Berry, PhD, University of Nevada - Reno; Kyle Powys Whyte, PhD, Michigan State University; Emma Norman, PhD, Northwest Indian College, *Indigenous Water Quality Governance: Decolonizing Space and Time*.

9:00 Deirdre Wilcock\*, University of Lausanne, *Collaborative critical methodologies in the Anthropocene*.

9:20 Jennifer Baka\*, Pennsylvania State University; Arielle Hesse, Penn State University; Karen Bakker, University of British Columbia; Erika Weinthal, Duke University, *Federal Hydraulic Fracturing Rulemaking and Tribal Participation in the US: A Discourse Analysis of Tribal Land and Water Claims in Relation to the 2015 BLM Rule*.

## 4124. Author Meets Critics: Iyko Day's Alien Capital: Asian Racialization and the Logic of Settler Colonial Capitalism (Sponsored by Sexuality and Space Specialty Group)

Room: Room 304, Hynes, Third Level (Panel Session)

ORGANIZER(S): Wesley Llewellyn Attewell, The University of Toronto; Christine A. Peralta, University of Illinois

CHAIR(S): Wesley Llewellyn Attewell, The University of Toronto

Discussant(s): Stevie Raymond Ruiz, California State University - Northridge

Panelists: May Farrales, Geography, University of British Columbia; Iyko Day, Mount Holyoke College; Genevieve Clutario, Harvard University; Christine A. Peralta, University of Illinois

## 4125. Human-environment interactions and adaptation to climate change in the context of Bangladesh (Sponsored by Human Dimensions of Global Change Specialty Group, Asian Geography Specialty Group)

Room: Room 305, Hynes, Third Level (Paper Session)

ORGANIZER(S): Munshi Rahman, Saint Louis University; Bimal Kanti Paul, Kansas State University; Thomas Crawford, Saint Louis University

CHAIR(S): Munshi Rahman, Saint Louis University

8:00 Munshi Rahman\*, Saint Louis University; Thomas Crawford, Saint Louis University, *Space time patterns of recent natural and man-made disasters in Bangladesh*.

8:20 Bidita Jawher Tithi\*, University of California, Davis, *'We are People of Sea-Water': Exploring Environmental Vulnerabilities and Human Rights of a Displaced Fishing Community in South-Eastern Bangladesh*.

8:40 Lauryn Bragg\*, Oak Ridge National Laboratory; Emma Walcott-Wilson, University of Tennessee; Eric Axley, Oak Ridge National Laboratory, *Occupancy Reporting for Manufacturing in Bangladesh*.

9:00 Subarna Chatterjee\*, Kansas State University, *Lightning related casualties in Bangladesh in 2016*.

## 4126. Relational Precarity, Migration and Global Cities: differentiated inclusion through social, temporal and spatial connections

Room: Room 306, Hynes, Third Level (Panel Session)

ORGANIZER(S): Junjia Ye, Massey University

CHAIR(S): Junjia Ye, Massey University

Introducer: Junjia Ye

Panelists: Beverley Mullings, Queen's University; Sarah Kunz, University College London; Nancy Ettlinger, Ohio State University; Francis L. Collins, University of Auckland; Nancy Worth, University of Waterloo; Maggi W.H. Leung, Utrecht University

## 4127. Food system transitions 1: Concepts and mechanisms (Sponsored by Cultural and Political Ecology Specialty Group, Rural Geography Specialty Group, Geographies of Food and Agriculture Specialty Group)

Room: Room 307, Hynes, Third Level (Paper Session)

ORGANIZER(S): Christoph David Dietfried Rupprecht, Research Institute for Humanity and Nature; Steven R. McGreevy, Research Institute for Humanity and Nature

CHAIR(S): Christoph David Dietfried Rupprecht, Research Institute for Humanity and Nature

8:00 Steven R. McGreevy\*, Research Institute for Humanity and Nature, *Agri-food system transitions to where? Assessing holistic local food security in Asia*.

8:20 David Meek, Ph.D\*, University of Alabama, *The Cultural Politics of the Agroecological Transition*.

8:40 Thomas Feldhoff, Prof. Dr.\*, Bochum University, *Agriculture, Food Security, and the Trans-Pacific Partnership: A Punctuated Equilibrium Perspective on Policy Stability and Change in Japan*.

9:00 KAZUHIKO OTA\*, Research Institute for Humanity and Nature, *Benefits of relocating food and agriculture from an environmental ethics perspective*.

9:20 Daniel Niles\*, Research Institute for Humanity and Nature, *Agriculture in the Anthropocene: the A-words*.

## 4128. Resilience, Food, and Agriculture: Social-Ecological Frameworks for Sustainability and Social Justice I - Social & Ecological Diversity (Sponsored by Cultural and Political Ecology Specialty Group, Geographies of Bread and Water in the 21st Century Featured Theme, Geographies of Food and Agriculture Specialty Group)

Room: Room 308, Hynes, Third Level (Paper Session)

ORGANIZER(S): Russell Hedberg, Pennsylvania State University; Jennifer Blesh, University of Michigan

CHAIR(S): Jennifer Blesh, University of Michigan

8:00 Vivian Valencia, PhD\*, University of Michigan; Jennifer Blesh, PhD, University of Michigan; Andrew Jones, PhD, University of Michigan, *Assessing links between agrobiodiversity and human nutrition among family farmers in Brazil: The role of gender equity and mediated markets*.

8:20 Devon D. Sampson, Ph.D.\*, UC Santa Cruz, *What diversity is for: Assessing the impact of agrobiodiversity on food security and rural livelihoods*.

8:40 Emma Gaalaas Mullaney\*, Bucknell University, *Resilience and the Politics of (Interspecies) Recognition*.

9:00 Sara Thomas Black\*, University of Georgia, *Using Food and Farmland for Prison Abolition: movement building in New York's Hudson Valley*.

Discussant(s): Rachel Bezner Kerr, Cornell University

## 4129. Urban Remote Sensing from Local to Global Scale (I): Heat, Energy, and Stress (Sponsored by Remote Sensing Specialty Group, Human Dimensions of Global Change Specialty Group, Urban Geography Specialty Group)

Room: Room 309, Hynes, Third Level (Paper Session)

ORGANIZER(S): Qihao Weng, Indiana State University; Changshan Wu, University of Wisconsin, Milwaukee

CHAIR(S): Yuanfan Zheng, Indiana State University

8:00 Yang Song\*, University of Wisconsin-Milwaukee, *Examining Human Heat Stress with Remote Sensing Technologies*.

8:20 Perumal Balakrishnan\*, Qatar University, *Analysis of*



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*Urban Heat Islands by using Multi-sensor and Multi-temporal Remote Sensing Images in Doha City.*

- 8:40** Bijesh Mishra\*, Kentucky State University; Jeremy Sandifer, STEM Coordinator, Kentucky State University; Buddhi Gyawali, Assistant Professor Dr., Kentucky State University; Tilak Shrestha, Research Associate Dr., Kentucky State University; Ken Bates, GIS Specialist, Kentucky State University; Prabisha Shrestha, Kentucky State University; Keshav Bhattarai, University of Central Missouri, *A Study of Temporal Patterns in the Surface Urban Heat Island Effect and Land Cover Change from 2000 to 2015 in Kathmandu, Nepal, South Asia.*

**9:00** Seth Greer\*, Auburn University, *Economic Study of Land-Surface Temperature of Auburn University.*

**9:20** Yuanfan Zheng\*, Indiana State University; Qihao Weng, Indiana State University, *Modeling the Climate Change Impact on Building Energy Demanding using A Geospatial Modeling Method at High resolution of Spatiotemporal Scales in the City of Los Angeles.*

## 4130. Moving Methods I

*Room: Room 310, Hynes, Third Level (Paper Session)*

ORGANIZER(S): Sven Kesselring, Nuertingen-Geislingen University; Malene Freudendal-Pedersen; Monika Buscher, Lancaster University

CHAIR(S): Monika Buscher, Lancaster University

**8:00** Monika Buscher\*, Lancaster University; Malene Freudendal-Pedersen, Roskilde University; Sven Kesselring, Hochschule für Wirtschaft und Umwelt Nürtingen-Geislingen, *Moving Methods.*

**8:20** Helena Marie Krobath\*, Concordia University; Helena M Krobath, Concordia, *Forest Daydreams: Sonic textures and settler identities in the trees of Mission, British Columbia.*

**8:40** David Tyfield\*, Lancaster University, *Shaping the Ecological Civilized City - Mobilities, Phronesis & Cosmopolitanism in China.*

**9:00** Jennie Germann Molz\*, College of the Holy Cross, *Mobile Virtual Ethnography: Following Flows on the Road of Life.*

**9:20** Samuel Thulin\*, Lancaster University; Jen Southern, Lancaster University; Monika Büscher, Lancaster University, *Methodological Resonance in Mobilities Research.*

## 4131. Emotions and Practicing Everyday Urban Spaces (1)

*Room: Room 311, Hynes, Third Level (Paper Session)*

ORGANIZER(S): Nicole McNamara, Macquarie University (MQU), Australia; AFM Ashraful Alam, Macquarie University

CHAIR(S): AFM Ashraful Alam, Macquarie University

**8:00** Karolina Doughty, PhD\*, Wageningen University & Research; Maja Lagerqvist\*, Stockholm University, *The ethical potential of the urban encounter: Music, emotion, and place.*

**8:19** Robyn Longhurst\*, University of Waikato, *Mourning: Skype, Screens, Bodies and Touch.*

**8:38** Jan Lorenz Wilhelm\*, *Urban development through the body: insights from a waterfront lab.*

**8:57** Nicole Kate McNamara, MPhil, BA(Hons)\*, Macquarie University (MQU), Australia, *Cycling: co-becoming and feeling the bike in Sydney, Australia.*

**9:16** Isabelle Schoepfer\*, University of Fribourg, Switzerland, *Neighborhoods Images to make sense of urban place: production of the city and images in urban development - Insights on residents making sense of their city.*

Discussant(s): Laura Shillington, John Abbott College

## 4132. Un-Vanishing Refugees: Heartless Practices and Policies Meet Allies and Accomplices

*Room: Room 312, Hynes, Third Level (Paper Session)*

ORGANIZER(S): Eli C.S. Jamison, Virginia Tech; Christian Matheis, Virginia Tech University

CHAIR(S): Eli C.S. Jamison, Virginia Tech

**8:00** Eli C.S. Jamison\*, Virginia Tech; Sabith Khan, Ph.D., Georgetown University, *Corporate Allies? Considering Corporate Social Responsibility as tool for Eradicating Labor Inequality.*

**8:25** Christian Matheis, Ph.D.\*, Virginia Tech, *Three Tactics for Making Migration Unsolvable: Militarization, Long-Chain Governance, and Heartless Research.*

**8:50** Shae Frydenlund\*, University of Colorado Boulder, *Refugee "revitalization" and urban (re)development.*

**9:15** Sean Patterson\*, Queen's University, *Advocating for immigrant workers in Toronto's commercial cleaning industry.*

## 4133. Physical Geography: Advances in teaching the physical world in a lower division classroom (Sponsored by Geography Education Specialty Group, Community College Affinity Group)

*Room: Room 313, Hynes, Third Level (Panel Session)*

ORGANIZER(S): Sarah Goggin

CHAIR(S): Sarah Goggin

Discussant(s): Melissa Hinten, University of Tennessee

Panelists: Kerry Lyste, Everett Community College; Herschel Stern, Miracosta College; Sarah Goggin; Adam Christopher Ereth, University of South Carolina

## 4138. Digital \ Human \ Labour 1: The Human Labour of Digital Work

*Room: Independence East, Sheraton, Second Floor (Paper Session)*

ORGANIZER(S): James Thatcher, University of Washington - Tacoma; David O'Sullivan, University of California, Berkeley; Dorothea Johanna KLEINE, University of Sheffield

CHAIR(S): James Thatcher, University of Washington - Tacoma

**8:00** Mark Graham\*, University of Oxford, *The Geography of the Gig Economy: Are there virtual sites of strength for digital workers?.*

**8:15** Dillon Mahmoudi\*, Portland State University, *"Code Yourself To A Better Future": The Feminisation of Software Labour.*

**8:30** Benjamin Shestakofsky\*, University of California, Berkeley, *Working Algorithms: Software Automation and the Future of Work.*

**8:45** Filipa Pajevic, PhD Student\*, McGill University, School of Urban Planning; Richard G. Shearmur, Professor, McGill University, School of Urban Planning, *Space, Technology and Everyday Work-life: The spatial underpinnings of mobile and flexible labour, the case of Toronto-Waterloo, Ontario.*

**9:00** Ryan Ellis\*, Northeastern University, *'No More Free Bugs': Organizing the Market for Software Vulnerabilities.*

Discussant(s): Mark Graham, University of Oxford

## 4139. Local Aesthetics

*Room: Independence West, Sheraton, Second Floor (Paper Session)*

ORGANIZER(S): Program Committee

CHAIR(S): Steve Marotta, Portland State University

**8:00** M. Troy Burnett, PhD\*, Mount Royal University, *Restoring Sense of Place in Post Conflict Societies.*

**8:20** Kathleen Shafer, PhD\*, Independent, *Donald Judd in Marfa: Producing space as an author and thinker but not a laborer.*

**8:40** Line Thorup\*, Roskilde University, *Playful place-making. Questioning understandings through pervasive art.*

**9:00** Roxanne Maduro\*, Colgate University, *Consequences and benefits of the Superfund program in urban minority communities.*

**9:20** Steve Marotta\*, Portland State University; Austin Cummings, Portland State University, *Localism as*

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*an Aesthetic Category: Communities of Sense in the Maker Movement.*

## 4140. Dealing with uncertainty in planning and related applications (Sponsored by Uncertainty and Context in Geography and GIScience Featured Theme)

Room: Liberty B, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Uncertainty and Context Theme

CHAIR(S): Uncertainty and Context Theme

8:00 Erjia Ge\*, University of Toronto; Rob Haining, Department of Geography, University of Cambridge; Yee Leung, Department of Geography and Resource Management, The Chinese University of Hong Kong, *Using knowledge fusion to analyze avian influenza H5N1 in East and Southeast Asia.*

8:20 Qingming Zhan\*, Wuhan University; Jiong Wang, Wuhan University, *The Variation and Seasonal Dynamics of Land Surface Temperature within Urban Areas.*

8:40 Kai Cao\*, National University of Singapore, *Spatial big data and GIS based spatial analysis of condo price in Singapore.*

## 4141. Uncertainty in health research (Sponsored by Uncertainty and Context in Geography and GIScience Featured Theme)

Room: Liberty C, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Uncertainty and Context Theme

CHAIR(S): Sadie Jane Ryan, University of Florida

8:00 Jaclyn M. Hall, Ph.D.\*, University of Florida, *The Social Determinants of Health and the Modifiable Areal Unit Problem.*

8:20 Cem Akkus\*, The University of Memphis; Esra Ozdenerol, The University of Memphis; Jennifer Kmet, Shelby County Health Department; Mehmet Kocak, The University of Tennessee Health Science Center, *Exploring Uncertainties in Blood Lead Levels of Shelby County Children with Multiple Screenings between 1994 and 2013.*

8:40 Jie Gao\*, Department of human geography and spatial planning, Faculty of Geosciences, Utrecht University; Marco Helbich, PhD, Department of human geography and spatial planning, Faculty of Geosciences, Utrecht University; Martin Dijst, PhD, Department of human geography and spatial planning, Faculty of Geosciences, Utrecht University; Carlijn B.M. Kamphuis, PhD, Department of human geography and spatial planning, Faculty of Geosciences, Utrecht University, *Inequalities in walking and cycling in the Netherlands: Quantifying the population-level health benefits.*

9:00 Emily Eyles\*, School of Geographical Sciences, University of Bristol; David Manley, School of Geographical Sciences, University of Bristol; Clive Sabel, Department of Environmental Science, Aarhus University; Kelvyn Jones, School of Geographical Sciences, University of Bristol, *Working yourself to death: health inequalities, occupation, and working conditions.*

9:20 Sadie Jane Ryan, PhD\*, University of Florida; Leah R Johnson, PhD, Virginia Tech; Anna M Stewart Ibarra, PhD, SUNY Upstate Medical University, *Bayesian uncertainty of physiological temperature models for vectorborne disease: how do you map that?.*

## 4142. Climate Change and Education (Sponsored by Human Dimensions of Global Change Specialty Group, Climate Specialty Group, Geography Education Specialty Group)

Room: Back Bay Ballroom A, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): RDK Herman, National Museum of the American Indian

CHAIR(S): Risa Palm, Georgia State University

8:00 Jonathan Otto\*, University of Hamburg; Sandra Sprenger, University of Hamburg; Maria Knobelsdorf, University

of Hamburg, *Computing and Climate Change Education with Geographical Information Systems (CC-GIS).*

8:20 Scott A. Carlin\*, LIU Post, *Climate Change and Education for Global Citizenship: Opportunities for Transformation.*

8:40 James A. Brey\*, American Meteorological Society; Wendy E. Abshire, American Meteorological Society; Ira W. Geer, American Meteorological Society; Elizabeth W. Mills, American Meteorological Society; Kira A. Nugnes, American Meteorological Society, *Preparing Faculty and Inspiring Students: The AMS Education Program's Efforts in Climate Science.*

9:00 Drew Bush, PhD Candidate\*, McGill University; Renee Sieber, PhD, McGill University; Gale Seiler, PhD, Iowa State University; Mark Chandler, PhD, Columbia University, NASA-GISS; Gail L Chmura, PhD, McGill University, *The Impact of Classroom-adapted Climate Models on Student Climate Change Understandings.*

9:20 Risa Palm\*, Georgia State University; Gregory B Lewis, Georgia State University; Bo Feng, Georgia State University, *Personality, Politics and Climate Change.*

## 4143. Exploring the Modular, Material and Performative Politics of Security (1) Novel Security Strategies and Datafied Mobile Governance (Sponsored by Political Geography Specialty Group)

Room: Back Bay Ballroom B, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Peter Forman, University of Durham;

Nathaniel O'grady, Durham University

CHAIR(S): Nathaniel O'grady, Durham University

8:00 Marieke De Goede\*, University of Amsterdam, *The Chain of Security.*

8:20 Ilia Antenucci, Institute for Culture and Society, Western Sydney University, *The Security of Logistics and the Logistics of Security. Privatizations, Power Assemblages and Political Order..*

8:40 Till Straube\*, Goethe University Frankfurt, *Interfacing Predictive Policing Devices.*

9:00 Lior Volinz\*, University of Amsterdam, *Privatized and Pluralized: Modular Security provision with and beyond the State.*

## 4144. Governing the Future City: Thinking comparatively about states, developers and communities in Large Scale Urban Developments 1 - Governing (Sponsored by China Specialty Group, Urban Geography Specialty Group, Africa Specialty Group)

Room: Constitution A, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Jennifer Robinson, University College London

CHAIR(S): Allan Douglas Cochrane, Open University

8:00 Romain Dittgen\*, University of the Witwatersrand; Philip Harrison, University of the Witwatersrand, *Governing across scales and temporalities - the Corridors of Freedom as a large urban project in Johannesburg, South Africa.*

8:20 Katia Attuyer\*, University College London; Jennifer Robinson, University College London, *Is collaborative urban development policy possible? Settings, segmentation, straightjackets in London.*

8:40 Jie Shen\*, Fudan University; Fulong Wu, University College London; Xiang Luo, Shanghai Pudong New Area Planning and Design Institute, *Intergovernmental governance of mega projects in China: a case study of Lingang New Town in Shanghai.*

9:00 Gilles Pinson\*, Université de Bordeaux / Sciences Po Bordeaux / Centre Emile Durkheim, *Large urban development projects as regime building processes.*

Discussant(s): Jennifer Robinson, University College London

## 4145. North Sea Nations: Changing Human Geographies

Room: Constitution B, Sheraton, Second Floor (Paper Session)

# SATURDAY, April 8 • 8:00 AM - 9:40 AM • 4100

ORGANIZER(S): Program Committee

CHAIR(S): Tobias Federwisch

**8:00** Cecilia Bygdell\*, University of Uppsala, *The cosmopolitan farm - ideas and practices among Swedish farmers.*

**8:20** Paula Duffy\*, University of Saint Andrews, *Immobility and Practices of Being 'Local' in Scotland's Coastal Communities.*

**8:40** Ingvild Jøranli\*, University of Oslo, *Capital city located software services firms and their socio-spatial context of learning: Linking cognitive, social, organizational, institutional and geographical dimensions of proximity.*

**9:00** Magdalena Habdas, prof, University of Silesia, Katowice, Poland; Jan Konowalczyk, dr inz.\*, University of Economics in Katowice; Michal Gluszek, dr, Cracow University of Economics, Poland; Tomasz Ramian, dr, University of Economics in Katowice, *Airport vicinity - a blessing or a curse? Paradoxes of calculating loss of value for residential properties.*

**9:20** Tobias Federwisch\*, Leibniz Institute for Research on Society and Space, *Social Intrapreneurship: An Innovative Approach to Creative Community Development..*

## **4148. Retail Planning: Perspectives from North America and Europe (Sponsored by Business Geography Specialty Group)**

*Room:* Beacon D, Sheraton, Third Floor (Panel Session)

ORGANIZER(S): Tony Hernandez, Ryerson Polytechnic University

CHAIR(S): Christopher Daniel, CSCA - Ryerson University

Panelists: Alan George Hallsworth, University of Portsmouth; Tony Hernandez, Ryerson Polytechnic University; Steve Millington, Manchester Metropolitan University; Brett J. Lucas, City of Cheney, WA; Herman Kok, Multi / ODTU; Lawrence Joseph, West Marine

## **4149. Critical urban theory in the 'urban age': Voices from another planet IV (Sponsored by Geographic Perspectives on Women Specialty Group, Urban Geography Specialty Group, Sexuality and Space Specialty Group)**

*Room:* Beacon E, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Natalie Oswin, McGill University; Geraldine J. Pratt, University Of British Columbia

CHAIR(S): Geraldine J. Pratt, University Of British Columbia

**8:00** Sallie A. Marston\*, University of Arizona, *Experience and the Formation of the Ethical Subject.*

**8:20** Ranu Basu\*, York University, *Decolonizing Cities: Spaces of Education and the Poetics of Revolution in Cuba.*

**8:40** Heather McLean\*, University of Glasgow; Leslie Kern\*, Mount Allison University, *Slowing down in the urban age: Situated knowledges and engaged methodologies.*

Discussant(s): Ayona Datta, King's College London

## **4150. The Dynamics of Electric and Alternative-Fuel Vehicles (Sponsored by Energy and Environment Specialty Group, Transportation Geography Specialty Group)**

*Room:* Beacon F, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Bradley Lane, University of Kansas - Lawrence, KS

CHAIR(S): Bradley Lane, University of Kansas - Lawrence, KS

**8:00** Toon Meelen\*, Bernhard Truffer, Utrecht University; Tim Schwanen, Oxford University, *The geography of user involvement in the up-scaling of sustainable innovation: the case of electric vehicles.*

**8:18** Kerstin Westin\*, Umeå University, Sweden; Annika Nordlund, Umeå University, Sweden; Johan Jansson, Umeå University, Sweden; Olof Olsson, Umeå University, Sweden, *The geographic diffusion of electric vehicles in Sweden..*

**8:36** Kathleen Araujo\*, SUNY - Stony Brook; Jean Boucher, Stony Brook University; Omkar Aphale, Stony Brook University, *Geo-Spatial Adoption of Electric Vehicle Technology: A Socio-technical and Policy Assessment.*

**8:54** Christopher D. Higgins\*, McMaster University; Mohamed Moataz, McMaster University; Stuart Collins, McMaster University; Mark Ferguson, McMaster University, *Size Matters: How Vehicle Type Affects Preferences for Electric Vehicles in Canada.*

**9:12** Bradley W. Lane, PhD\*, University of Kansas - Lawrence, KS, *Estimating differences in interest in electric vehicle powertrains: The role of range anxiety.*

Discussant(s): Scott Kelley, University of Michigan

## **4153. Geographies of Activism and Social Justice**

*Room:* Dalton A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Margaret Robertson, La Trobe University

**8:00** Shawhin Roudbari\*, University of Colorado - Boulder, CO, *Activism in the Chilean Architecture Profession: Moving Design for Social Justice into the Mainstream.*

**8:20** Leslie Parraguez Sanchez, PhD\*, Pontificia Universidad Catolica De Chile, *The Socio-Spatial Production of Resistance in a Post-Dictatorial Country: The Case of the Chilean Student Movement.*

**8:40** Claire Carroué\*, INRS; Claire Carroué, INRS, *Young people engagement : inequalities, emancipation in a collaborative work.*

**9:00** Margaret E Robertson, PhD\*, La Trobe University, *Intersecting real and imagined spaces: Adolescents' transactions and well-being in the peri-urban.*

## **4155. Governing and planning infrastructure funding and financing in global cities - session 1 (Sponsored by Economic Geography Specialty Group)**

*Room:* Hampton A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Peter O'Brien

CHAIR(S): Graham Thrower, Newcastle University

**8:00** John Harrison, Loughborough University, *Rethinking business-state relations in planning and governing major urban regions.*

**8:20** John Tomaney\*, University College London, *Dublin as a "great planning failure".*

**8:40** Peter O'Brien\*, Andy Pike, Newcastle University; John Tomaney, University College London, *Governing the (un)governable? The financialisation and governance of infrastructure in the London city-region.*

**9:00** Yi Li\*, Nanjing University; Andrew E.G. Jonas, Hull University; Fulong Wu, University College London, *Building cross-boundary infrastructure in China: the case of inter-city mass transit development in Shanghai global city-region.*

Discussant(s): Jen Nelles, Hunter College, CUNY

## **4156. Environmental protection in China: Challenges and opportunities-1 (Sponsored by China Specialty Group)**

*Room:* Hampton B, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Xiaobo Su, University of Oregon

CHAIR(S): Rachel Maynard

**8:00** Weifeng Li\*, Department of Urban Planning and Design, The University of Hong Kong, *Fine particulate air pollution and mental health impacts in China's megacities.*

**8:20** Rachel Maynard\*, McGill University; Brian E. Robinson, Dr., McGill University; Hua Zheng, Dr., Research Center for Eco Environmental Sciences, Chinese Academy of Sciences; Wenjia Peng, Research Center for Eco Environmental Sciences, Chinese Academy of Sciences; Sai Ma, McGill University, *Divergent scenario futures of three villages in the Miyun watershed, China.*

**8:40** Ziyue Chen\*, *Spatio-temporal characteristics of PM2.5 in China: a multi-scale perspective.*

**9:00** Tiantian Shao\*, Kaishan Song, *Influence of environmental factors on spectral absorption characteristics of optically active substances in Liaohe River Watershed, northeast China.*



**SATURDAY, April 8 • 8:00 AM - 9:40 AM • 4100****4157. Energy Cultures, Communities and Consumption: Exploring the social, political and cultural dynamics of energy system change I (Sponsored by Energy and Environment Specialty Group)***Room: Gardner A, Sheraton, Third Floor (Paper Session)*

ORGANIZER(S): Frances Fahy, National University of Ireland, Galway; Jennie C. Stephens, Northeastern University  
 CHAIR(S): Frances Fahy, National University of Ireland, Galway  
**8:00** John Whitton, PhD\*, University of Central Lancashire; Ioan M Parry, MSc, University of Central Lancashire, *What is an Energy Community? Conceptualizing a Definition for Theory and Practice.*

**8:20** Matthew J. Burke, PhD Candidate\*, McGill University; Jennie C. Stephens, PhD, Northeastern University, *Energy Democracy: Political Power and Renewable Energy.*

**8:40** Laurence L Delina, PhD\*, Boston University/Rachel Carson Center at LMU Munich, *The Pa Deng Model for rural energy transitions in Thailand: communities, configurations, contestations, and connections.*

**9:00** Thomas Webler, Ph.D.\*, Keene State College; Seth Tuler\*, Worcester Polytechnic Institute; Hannah Rettig, Keene State College, *The Nuclear Energy Transition In America: Stakeholder Involvement In Nuclear Power Plant Decommissioning.*

**4158. Political Geographies of Place Naming: International Context and International Organizations (Sponsored by Political Geography Specialty Group)***Room: Gardner B, Sheraton, Third Floor (Paper Session)*

ORGANIZER(S): Sang-Hyun Chi, Kyung Hee University  
 CHAIR(S): Sang-Hyun Chi, Kyung Hee University  
**8:00** Yeon-Taek Ryu\*, Chungbuk National University, South Korea, *International Hydrographic Organization (IHO) and the East Sea/Sea of Japan Issue.*

**8:20** Jack Fellman\*, University of Idaho; Steven M Radil, University of Idaho, *The multi-scalar geographies of place naming: The case of Cyprus.*

**8:40** Frederic GIRAUT\*, Université De Genève, *Mandela as global icon: the time and space diffusion of a toponymic commemoration.*

**9:00** Sang-Hyun Chi\*, Kyung Hee University, *One feature, two names and many issues: The political geographies of naming the sea between Korea and Japan.*

Discussant(s): Reuben S. Rose-Redwood, University of Victoria

**4159. Economic Geography in Emerging and Developing Economies I: Heterogeneity & regional dynamics (Sponsored by Economic Geography Specialty Group)***Room: Fairfax A, Sheraton, Third Floor (Paper Session)*

ORGANIZER(S): Godfrey Yeung, National University Of Singapore; Canfei He, Peking University; Ron Boschma, Utrecht University

CHAIR(S): Godfrey Yeung, National University Of Singapore

**8:00** Shengjun Zhu\*, Peking University, *Who leads regional industrial dynamics? "New path creators" in Chinese regions.*

**8:20** Jin Shi, PhD\*, Zhejiang University of Technology, *Technological Relatedness, Market Liberalization, and Private Firm Growth: Evidence from China's Manufacturing Sector.*

**8:40** Yiwen Qiu, Master Degree, Peking University; Tiyan Shen, Professor, Peking University, *The Geography of the Industry Lifecycle from an Evolutionary Perspective.*

**9:00** Canfei HE, Peking University; Qian LUO\*, Peking University, *Industrial Policies and Regional Industrial Evolution in China ?Based on Relationship between Local Government and Industries.*

**9:20** Thijs Nacken\*, Erasmus University Rotterdam; Bas Karreman, Erasmus University Rotterdam, *Place, Pace, and Space: Geographical Network Evolution of Multinational Banks across Central and Eastern Europe.*

**4160. Proposal-Writing Strategies for the NSF Geography and Spatial Sciences Program - 3 (Sponsored by AAG Careers and Professional Development Theme)***Room: Fairfax B, Sheraton, Third Floor (Panel Session)*

ORGANIZER(S): Antoinette WinklerPrins, National Science Foundation

CHAIR(S): Thomas J. Baerwald, National Science Foundation

Introducer: Antoinette WinklerPrins

Discussant(s): Thomas J. Baerwald, National Science Foundation; Sunil Narumalani, National Science Foundation; Holly M. Hapke, National Science Foundation

**4161. Financialization as a State Project 1: Public Finance (Sponsored by Urban Geography Specialty Group, Economic Geography Specialty Group)***Room: Jefferson, Sheraton, Third Floor (Paper Session)*

ORGANIZER(S): Caroline Sage Ponder, University of British Columbia; Mikael Omstedt, University of British Columbia

CHAIR(S): Caroline Sage Ponder, University of British Columbia

**8:00** Sebastian Möller\*, University of Bremen, *The financialization of municipal debt management: How did interest rate derivatives enter city hall?.*

**8:20** Josh Pacewicz\*, Brown University, *The City as a Fiscal Derivative: Financialization, Urban Development, and the Politics of Earmarking.*

**8:40** Laura Deruytter\*, Vrije Universiteit Brussel; David Bassens, Vrije Universiteit Brussel, *'Shadow Banking Within': Intermunicipal Companies and the Financialization of the Belgian Local State.*

**9:00** Mikael Omstedt\*, University of British Columbia, *Securing the debt relation: The class dynamics of the financialized state.*

Discussant(s): Manuel B. Aalbers, KULeuven

**4162. Environmental Transformation of World Mangrove Regions (Sponsored by Biogeography Specialty Group)***Room: Kent, Sheraton, Third Floor (Paper Session)*

ORGANIZER(S): Priyanka Ghosh; Li-Chih Hsu, University of Kentucky

CHAIR(S): Jeffrey S. Ueland, Bemidji State University

**8:00** Adam Jadhav\*, University of California - Berkeley, *Place-based perceptions of estuarine conservation in India: "We don't threaten mangroves; mangroves threaten us."*

**8:20** Marie Christine Cormier Salem\*, IRD, *Let the women harvest the mangrove. Carbon policy, and environmental injustice..*

**8:40** Thomas Minckley\*, University of Wyoming; Ingrid Hendy, University of Michigan; Cathy Whitlock, Montana State University, *Sea level rise and the expansion of mangroves in the eastern tropical Pacific, Mexico.*

**9:00** Priyanka Ghosh\*, University of Kentucky, *Environmental Transformation of the Sundarban Biosphere Reserve - A mangrove forest ecosystem in India.*

Discussant(s): Jon A. Stallins, University of Kentucky

**4163. Authors Meet Critics: Aoyama with Parthasarathy's "The Rise of the Hybrid Domain" (Sponsored by Asian Geography Specialty Group, Development Geographies Specialty Group, Economic Geography Specialty Group)***Room: Commonwealth, Sheraton, Third Floor (Panel Session)*

ORGANIZER(S): Rory Horner, University of Manchester

CHAIR(S): Rory Horner, University of Manchester

Introducer: Rory Horner

Introducer: Michael Storper

Panelists: Erica Schoenberger, Johns Hopkins University; Bish Sanyal, Massachusetts Institute of Technology; Yuko Aoyama, Clark University; Balaji Parthasarathy, International Institute of Information Technology



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## 4164. Into the Void I: Invisible (Sponsored by Cultural Geography Specialty Group)

**Room:** Boylston, Marriott, First Floor (Paper Session)  
 ORGANIZER(S): Paul T. Kingsbury, Simon Fraser University;  
 Anna J Secor, University of Kentucky  
 CHAIR(S): Anna J Secor, University of Kentucky  
 Introducer: Paul T. Kingsbury  
**8:05** Marijn Nieuwenhuis\*, University of Warwick, PAIS/  
 SOAS, *Hole-in-Wall: Representations of Sinkholes in the Visual Arts*.  
**8:20** Nick Lally\*, University of Wisconsin - Madison; Luke  
 Bergmann, University of Washington, *Enfolding*.  
**8:35** Sarah De Leeuw\*, University of Northern British  
 Columbia, *O(void) Lot: Ethnopoetics and the Colonial  
 Geographies of Growing Up White Girl on Haida  
 Gwaii*.  
**8:50** John Wylie\*, UNIVERSITY OF EXETER, *Vanishing  
 Points*.  
**9:05** Alison Mountz\*, Wilfrid Laurier University, *Derwent's  
 Ghost: the haunting silences of geography's history at  
 Harvard*.  
 Discussant(s): Anna J Secor, University of Kentucky

## 4165. Media and Communication Geography: Past, Present, Future (Sponsored by Communication Geography Specialty Group)

**Room:** Tremont, Marriott, First Floor (Panel Session)  
 ORGANIZER(S): Emily Fekete, Oklahoma State University  
 CHAIR(S): Emily Fekete, Oklahoma State University  
 Panelists: Stanley D. Brunn, University of Kentucky; Christina E.  
 Dando, University of Nebraska-Omaha; Joseph Palis,  
 University of the Philippines-Diliman; Paul C. Adams,  
 University of Texas at Austin

## 4166. The Wasteland I: Ontologies of the Wasteland (Sponsored by Political Geography Specialty Group, Cultural Geography Specialty Group)

**Room:** Columbus 1, Marriott, First Floor (Paper Session)  
 ORGANIZER(S): Heather Agnew, UCLA; James Walker,  
 University of California - Los Angeles; Robert Allen  
 Kopack, University of Toronto  
 CHAIR(S): Heather Agnew, UCLA  
**8:00** Robby Hardesty\*, University of Kentucky, *Catastrophic  
 Futures: Insurance Narratives and the Financial  
 Productivity of the Wasteland*.  
**8:20** Robert Allen Kopack\*, University of Toronto, *Kazakhstan's  
 Cold War Defense Installations and the Emergent  
 Economies of Ruin*.  
**8:40** Heather Agnew\*, UCLA, *Ruin Tourism and Post-Industrial  
 Landscapes of Decay in the American Rust Belt*.  
**9:00** Shelley Buchbinder, MSW\*, CUNY - Graduate Center,  
*Waste Now, Develop Later: Small, Old and Poor  
 Places Contract the Present*.  
**9:20** Danika Cooper\*, University of California, Berkeley,  
*Drawing the Desert: Representations of Emptiness in  
 the Mapping of the American West*.

## 4167. Advances in Remote Sensing and Statistical Techniques for Detecting Anthropogenic Impacts in Grassland Ecosystems (Sponsored by Human Dimensions of Global Change Specialty Group, Spatial Analysis and Modeling Specialty Group)

**Room:** Columbus 2, Marriott, First Floor (Paper Session)  
 ORGANIZER(S): J.M. Shawn Hutchinson, Kansas State  
 University; Anne Jacquin, INRA  
 CHAIR(S): J.M. Shawn Hutchinson, Kansas State University  
**8:00** J.M. Shawn Hutchinson, Ph.D.\*, Department of Geography,  
 Kansas State University; Austin Braget, Department  
 of Geography, Kansas State University, *Time Series  
 Analysis of Phenometrics and Long-Term Vegetation  
 Trends for the Flint Hills Ecoregion using Moderate  
 Resolution Satellite Imagery*.  
**8:20** Douglas G. Goodin\*, Kansas State University, *Vegetation*

*Index Dynamics and Human Disturbance in Tallgrass  
 Prairie: Analysis Using Permutation Entropy*.

**8:40** Bing Lu\*, University of Toronto Mississauga; Cameron  
 Proctor, University of Toronto Mississauga; Yuhong  
 He, University of Toronto Mississauga, *Retrieval of  
 grassland biophysical and biochemical properties  
 using helicopter-acquired high spatial resolution  
 hyperspectral imagery and radiation transfer  
 modeling*.

**9:00** Anne Jacquin\*, French Agronomy Research National  
 Institute, *Specific detection of the Flavescence doree  
 grapevine disease by UAV multispectral*.

## 4168. Geography and fiction

**Room:** St. Botolph, Marriott, Second Floor (Paper Session)  
 ORGANIZER(S): L. Jesse Rouse, UNC Pembroke  
 CHAIR(S): L. Jesse Rouse, UNC Pembroke  
**8:00** Ezra Dan Feldman\*, Cornell University; Katherine  
 Foo, Pennsylvania State University, *Narratives of  
 Socio-Spatial Disruption: The Narrative Modes  
 of Speculation in Geographical Explanation and  
 Speculative Fiction*.  
**8:20** Keith Harris\*, University of Washington, *The Schizo and  
 the City: Jacques Besse's La Grande Pâque*.  
**8:40** L. Jesse Rouse\*, UNC Pembroke, *Blessed plains and  
 protective forests: The role of place as character in  
 Mercedes Lackey's Valdemar series*.

## 4169. Symposium on Human Dynamics in Smart and Connected Communities: Agents - the 'atomic unit' of social systems? 1

**Room:** Regis, Marriott, Third Floor (Paper Session)  
 ORGANIZER(S): Andrew Crooks, George Mason University;  
 Alison Heppenstall; Nick Malleon, University of  
 Leeds  
 CHAIR(S): Nick Malleon, University of Leeds  
**8:00** Kurtis James Garbutt\*, University College London; Taku  
 Fujiyama, University College London; Claire Ellul,  
 University College London, *Agentising Vulnerability:  
 Modelling the impact of NGO Response on  
 Vulnerability during Flood events*.  
**8:20** Zhu Jin\*, University at Buffalo; Sara Metcalf, University  
 at Buffalo, *Developing Ontology for Agent-Based  
 Modeling*.  
**8:40** Frank Dignum\*, Utrecht University; Virginia Dignum,  
 Delft University of Technology, *Social Foundations for  
 Agent Based Models*.  
**9:00** Marcus Saraiva, Marcus Saraiva\*, Birkbeck, University of  
 London, *The AXS Model: An Agent-Based Simulation  
 Approach for Accessibility and Centrality*.  
 Discussant(s): Koen Haziell Van Dam, Imperial College London

## 4170. Emerging themes in Health and Environmental Perception 1 (Sponsored by Environmental Perception and Behavioral Geography Specialty Group)

**Room:** Northeastern, Marriott, Third Floor (Paper Session)  
 ORGANIZER(S): Bethany Cutts, North Carolina State University  
 CHAIR(S): Rania Wasfi, Université De Montreal  
**8:00** Heather Wilson\*, University of Toronto - Mississauga;  
 Joseph Leydon, University of Toronto - Mississauga,  
*Achieving Liveability: University Student Perceptions  
 of Neighbourhood Spaces*.  
**8:20** Kevin Y.K. Leung\*, The University of Hong Kong; Becky  
 P.Y. Loo, Professor, The University of Hong Kong,  
*Mobility and wellbeing of primary school children: a  
 case study in Hong Kong*.  
**8:40** Malte Von Szombathely\*, University of Hamburg, *The  
 city's influences on health related urban well-being.  
 First results from Hamburg*.  
**9:00** Hugh Millward, Professor\*, Geography & Environmental  
 Studies, Saint Mary's University, Halifax, Canada;  
 Jamie Spinney, Assistant Professor, Geography  
 Dept., South Dakota State University, *Active Living*

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among Late Adolescents and the Journey to School: A Canadian Time-Use Perspective.

- 9:20** Rania Wasfi\*, Université De Montreal; Madeleine Steinmetz-wood, Université de Montreal; Benoit Thierry, Université de Montreal; Yan Kestens, Université de Montreal, *The Influence of City Size, Age and Exposure to Walkable Environments on Walking Behaviour: A Longitudinal Analysis in Canada.*

**4171. Monitoring Mountain Glacier Changes in Relation to Climate Change (Sponsored by Cryosphere Specialty Group, Mountain Geography Specialty Group)**

**Room:** Brandeis, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Jeffrey Adam VanLooy, University of North Dakota

CHAIR(S): Jeffrey Adam VanLooy, University of North Dakota

- 8:00** Lara Hughes-Allen\*, University of Southern California, *Quantifying Changes in Glacier Thickness, Area, ELA, and AAR Using Remote Sensing and GIS: Taku Glacier System, AK.*

- 8:20** Yaning Chen\*, State Key Laboratory of Desert and Oasis Ecology, Xinjiang Institute of Ecology and Geography, Chinese Academy of Sciences; Weihong Li, State Key Laboratory of Desert and Oasis Ecology, Xinjiang Institute of Ecology and Geography, Chinese Academy of Sciences; Haijun Deng, State Key Laboratory of Desert and Oasis Ecology, Xinjiang Institute of Ecology and Geography, Chinese Academy of Sciences; Gonghuan Fang, State Key Laboratory of Desert and Oasis Ecology, Xinjiang Institute of Ecology and Geography, Chinese Academy of Sciences; Zhi Li, State Key Laboratory of Desert and Oasis Ecology, Xinjiang Institute of Ecology and Geography, Chinese Academy of Sciences, *Variation of total water storage and its impact factors in Tianshan Mountains, Central Asia.*

- 8:40** Andrew Klein\*, Texas A&M University; Xian Dong, Texas A&M University; Joni L Kincaid, Texas A&M University, *Glacier Retreat on Punak Jaya, Papua Province, Indonesia.*

- 9:00** BeiBei Ai\*, State Key Lab of Resources and Environmental Information System, Institute of Geographic Sciences and Natural Resources Research, CAS; ChengZhi Qin, State Key Lab of Resources and Environmental Information System, Institute of Geographic Sciences and Natural Resources Research, CAS, *Developing the surface supply relationship between glaciers and lakes on Tibetan Plateau using digital terrain analysis.*

- 9:20** Jeffrey A VanLooy, Ph.D.\*, University of North Dakota; Gregory S Vandeberg, Ph.D., University of North Dakota, *Long-term Monitoring of Ice in one of the World's Most Iconic Wildernesses: Potential Benchmark Glaciers in the Greater Yellowstone Ecosystem.*

**4172. Water Governance and Urban & Peri-Urban Water Crisis: Perspectives from US and Africa's Cities (Sponsored by Urban Geography Specialty Group, Africa Specialty Group, Water Resources Specialty Group)**

**Room:** MIT, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Daniel M. Nzenzanya, Arizona State University

CHAIR(S): Daniel M. Nzenzanya, Arizona State University

- 8:00** Maria Chiara Pastore\*, Politecnico di Milano, *Public spaces, water and sanitation services. A changing relation. The case of Dar es Salaam.*

- 8:15** Daniel Gallagher\*, MIT, *Post-socialist water governance as climate adaptation strategy in Havana.*

- 8:30** Deborah Ayodele\*, Arizona State University; Kelli L Larson, PhD, Arizona State University; Bob Bolin, PhD, Arizona State University, *Power in Water Governance Transitions: The Case of Arizona's Central Highlands.*

- 8:45** Hubert B. Stroud\*, Arkansas State University, *Water Woes within Amenity-based Subdivisions.*

- 9:00** Jeremia Nyaga Njeru\*, Central College, *Contestations over Water Quality in Iowa: Urban-Rural Conflict.*

- 9:10** Christine Askah Nyambeki Okemwa, MSc.\*, *Water Resource Users' Association, Water Catchment Rehabilitation, and Climate Adaptation in Kenya.*

- 9:20** Gladys Hopillo\*, *Community Participation and Sustainability of Protected Water Springs: The Case of Khwisero Sub-county, Kenya.*

- 9:30** Daniel M. Nzenzanya, Ph.D.\*, St Paul's University; Joel Kinyanjui, St Paul's University, *Vulnerability of Community-Managed Peri-Urban Water Systems to the effects of Climate Change: The Case of Kenya.*

**4173. Modelling human populations, demographics, and movements -at regional to global scales (Sponsored by Geographic Information Science and Systems Specialty Group, Population Specialty Group)**

**Room:** Boston University, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Jeremiah J. Nieves, University of Southampton; Andrea Gaughan

CHAIR(S): Jeremiah J. Nieves, University of Southampton

- 8:00** Jeremiah J. Nieves\*, University of Southampton; Catherine Linard, PhD, Université Namur; Université Brussels; Forrest R Stevens, PhD, University of Louisville; Andy J Tatem, PhD, University of Southampton; Graeme Hornby, Geodata, University of Southampton; Homme Zwaagstra, Geodata, University of Southampton; Tom Bird, PhD, University of Southampton; Chris Lloyd, University of Southampton, *Global Urban Growth Modeling Using Random Forests.*

- 8:20** Andrea E Gaughan\*, University of Louisville; Forrest R Stevens, University of Louisville; Jeremiah N Nieves, University of Southampton; Adam King, University of Louisville; Alessandro Sorichetta, University of Southampton; Catherine Linard, Université Libre de Bruxelles; Andrew J Tatem, University of Southampton, *Human population modeling and the built environment.*

- 8:40** Alessandro Sorichetta, Dr\*, WorldPop, University of Southampton; G. Abel, Professor, Shanghai University; D. Heim, GeoData, University of Southampton; T. Bird, Dr, WorldPop, University of Southampton; N. Ruktanonchai, Dr, WorldPop, University of Southampton; A. Carioli, Dr, WorldPop, University of Southampton; E. zu Erbach-Schoenberg, Dr, WorldPop, University of Southampton; A. J. Tatem, Professor, WorldPop, University of Southampton, *Modelling Subnational Migration Flows in and between Low and Middle Income Countries to Support Malaria Eradication.*

- 9:00** Alessandra Carioli, MSc\*, University of Southampton; Jeremiah J Nieves, University of Southampton; Andrew J Tatem, Prof., University of Southampton, *Bottom-up Fertility Rate Estimation from DHS survey data using Machine Learning.*

- 9:20** Adam King\*, University of Louisville, *Environmentally Driven Seasonal Movement in Bangladesh.*

**4174. Symposium on Human Dynamics in Smart and Connected Communities: Big geodata in human mobility modeling (1)**

**Room:** Simmons, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Yihong Yuan; Edwin Chow, Texas State University - San Marcos

CHAIR(S): Yihong Yuan

- 8:00** Kang Liu\*, 1. Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences; 2. University of Chinese Academy of Sciences; 3. University of California, Santa Barbara; Peiyuan Qiu, 1. Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences;

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Song Gao, University of California, Santa Barbara; Hengcai Zhang, 1. Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences; Feng Lu, 1. Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, *Quantifying traffic correlation among urban roads from massive GPS trips using word embedding techniques.*

**8:20** Javier Gutiérrez, Full Professor, Universidad Complutense de Madrid; Juan Carlos García-Palomares, Professor, Universidad Complutense de Madrid; Maria Henar Salas-Olmedo, PhD\*, Universidad Complutense de Madrid, *Comparing big data sources to map tourists' spatial patterns.*

**8:40** Xujiao Wang\*, Texas State University, *Measuring Users' Activity Pattern Similarity from Location Based Social Media: A Weighted Vector Space Model Method.*

**9:00** Henrikki Tenkanen\*, University of Helsinki, *Analyzing Spatial Mobility Patterns of Tourists Using Social Media Data - a Case Study from South-African National Parks.*

**9:20** Yihong Yuan\*, Texas State University; Guixing Wei, Texas State University, *Evaluating Demographic Representativeness of Location-based Social Media: A Case Study of Weibo.*

**4175. Symposium on Human Dynamics in Smart and Connected Communities: Spatial-Social Networks in GIS 6 (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group, Spatial Analysis and Modeling Specialty Group)**

*Room:* Suffolk, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Xinyue Ye, Kent State University; Xingjian Liu, University of Hong Kong; Clio Andris

CHAIR(S): Wei Kang, Arizona State University  
**8:00** Liang Xiong\*, Department of Urbanism, Faculty of Architecture and the Built Environment, Delft University of Technology; Steffen Nijhuis, Department of Urbanism, Faculty of Architecture and the Built Environment, Delft University of Technology, *Exploring Spatial Relationships in the Pearl River Delta.*

**8:20** Ruoran Cheng\*, *Exploring political factions in Chinese history using GIS-based social network analysis: A case study on factions in middle-late Northern Song Dynasty, 1068 - 1126 A.D..*

**8:40** Sergio J. Rey, Arizona State University; Xinyue Ye, Kent State University; Wei Kang\*, Arizona State University, *Spatial income inequality dynamics in provincial China, 1978-2012.*

**9:00** Daidai Shen\*, UNCC; Wenjia Zhang, UNCC; Jean-Claude Thill, UNCC, *Network Analysis of Manufacturing Companies in Chinese Cities.*

**9:20** Shiyuan Zhai\*, Gen-xin SONG; xinyue Ye, *Research on farmers' adaptation behavior to drought based on Voluntary Contribution Mechanism.*

**4176. Rural Geography Awards 1: "Donald Q. Innis Award" panel session honoring Leslie Duram (Sponsored by Rural Geography Specialty Group, Geographies of Food and Agriculture Specialty Group)**

*Room:* Wellesley, Marriott, Third Floor (Panel Session)

ORGANIZER(S): Christopher R. Laingen, Eastern Illinois University

CHAIR(S): Christopher R. Laingen, Eastern Illinois University  
 Panelists: Kelli L. Larson, Arizona State University; Mary E. Cawley, National University Of Ireland, Galway; Justin Schoof, Department of Geography and Environmental Resources, SIUC; Alison M. Gill, Simon Fraser University; Melva B. Trevino-Pena, Oregon State University; Leslie A. Duram, Southern Illinois University

**4177. Cartographic Design and Information Visualization (Sponsored by Geographic Information Science and Systems Specialty Group, Health and Medical Geography Specialty Group, Cartography Specialty Group)**

*Room:* Harvard, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Wei Yang, University of Southern California; Lan Mu, University of Georgia

CHAIR(S): Wei Yang, University of Southern California

**8:00** Brent Chamberlain, Ph.D.\*, Kansas State University, *Geovisualization of Coastal Climate Change.*

**8:15** Crystal English, CCIA\*, San Diego State University, *Pattern Detection and Visualization of Multidimensional Crime Data.*

**8:30** Mahbubur Meenar\*, Rowan University, *Understanding Human Emotions and Perceptions in Brownfields Redevelopment Processes: Use of Photovoice and Qualitative Geovisualization.*

**8:45** Joel Radunzel\*, West Point, *Fog of war: how the US military visualizes uncertainty using maps.*

**9:00** Gabriel Kaprielian, Assistant Professor\*, Temple University, *Mapping, Design, and the Digitally Fabricated Artifact.*

**9:15** Wei Yang\*, University of Southern California, *A new way of geo-visualization for large-scale big geospatial data mashups.*

**4179. Land Change 5: Production in land systems (Sponsored by Remote Sensing Specialty Group, Human Dimensions of Global Change Specialty Group, Geographies of Food and Agriculture Specialty Group)**

*Room:* Arlington, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Richard J. Aspinall

CHAIR(S): Erin Bunting, U.S. Geological Survey

**8:00** Hannah Victoria Herrero\*, University of Florida; Jane Southworth, University of Florida, *Temporal and spatial specificity of vegetation changes in Eastern Zambia savanna landscapes.*

**8:20** Cheyenne Lei\*, Michigan State University, *Analysis of Ingrowth Cores and Flux Variables on the Variability of Net Ecosystem Exchange and Root Production within Agricultural Regions.*

**8:40** Mehmet Ozdes\*, University of Florida; Audrey C Smith, University of Florida; Di Yang, University of Florida; Jane Southworth, University of Florida, *Evaluation of Vegetation Change in Great Limpopo Transfrontier Park Using a Markov Chain Monte Carlo Model.*

**9:00** Michael W. Binford\*, Department of Geography, University of Florida; Matthew Marsik, Department of Geography and LUECI, University of Florida; Chiung-Shiuan Fu, Department of Geography and LUECI, University of Florida; Di Yang, Department of Geography and LUECI, University of Florida, *Mapping the Distribution and Spatial Characteristics of Forest Management in Two Major Forested Areas of the USA.*

**9:20** Erin Bunting\*, U.S. Geological Survey; Seth Munson, United States Geological Survey, Southwest Biological Science Center; John Bradford, United States Geological Survey, Southwest Biological Science Center; Caitlin Andrews, United States Geological Survey, Southwest Biological Science Center, *Inter-regional Comparisons of Plant Production Responses to Climate and Soil Water.*

**4180. Services and the Green Economy (Sponsored by Economic Geography Specialty Group)**

*Room:* Berkeley, Marriott, Third Floor (Panel Session)

ORGANIZER(S): Patrik Ström; Andrew Jones, City University London

CHAIR(S): Andrew Jones, City University London

Introducer: Andrew Jones

Discussant(s): David C. Gibbs, University of Hull

Panelists: Patrik Ström; Brita Hermelin, Linköping university;



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Christian Schulz, University of Luxembourg; Grete Rusten, University of Bergen

## 4181. Author Meets Critics: Ashley Dawson's "Extinction: A Radical History" (Sponsored by Cultural and Political Ecology Specialty Group, Paleoenvironmental Change Specialty Group, Historical Geography Specialty Group)

**Room:** Clarendon, Marriott, Third Floor (Panel Session)  
 ORGANIZER(S): Christopher R. Cox, University of Washington  
 CHAIR(S): Christopher R. Cox, University of Washington  
 Introducer: Jason W. Moore  
 Panelists: Christopher R. Cox, University of Washington; John G. Hintz, Bloomsburg University of Pennsylvania; Thomas Smith, University of St Andrews; Justin Daniel McBrien, University of Virginia; Ashley Dawson

## 4182. Urban Metaphors and Social Inequalities in the Americas (Sponsored by Latin America Specialty Group, Urban Geography Specialty Group, Cultural Geography Specialty Group)

**Room:** Dartmouth, Marriott, Third Floor (Paper Session)  
 ORGANIZER(S): Joel Outtes, UFRGS-Univ Fed Rio Gde Do Sul  
 CHAIR(S): Joel Outtes, UFRGS-Univ Fed Rio Gde Do Sul  
 8:00 Eugênia Viana Cerqueira, PhD Student\*, Université Paris 1 Panthéon-Sorbonne, *Urban sprawl and the inequalities in access to urban resources: the case of the Metropolitan Region of Belo Horizonte*.  
 8:20 Juan Pablo Galvis\*, SUNY-Old Westbury, *Curing the City: Urban life, medical metaphors and exclusionary public spaces in Bogota*.  
 8:40 Carolyn Gallaher\*, American University, *Rethinking the place of the Condo in North American Cities*.  
 9:00 Justin Steil, Massachusetts Institute of Technology, *Race, Regulation, and Segregation: Legal Geographies of Property*.  
 9:20 Adriano Borges Ferreira Costa\*, Fundação Getulio Vargas, *Assessing the impact of transit infrastructures on the built environment of outskirt areas in São Paulo (Brazil)*.

## 4183. Geographies of Slow Violence 1: Gendered Violence

**Room:** Exeter, Marriott, Third Floor (Paper Session)  
 ORGANIZER(S): Rachel Pain, University Of Durham; Caitlin Cahill, Pratt Institute  
 CHAIR(S): Rachel Pain, University Of Durham  
 8:00 Lorraine Dowler\*, Penn State University; Jenna Christian, Penn State University, *Lavena Johnson, Sandra Bland, and the geographies of slow and fast violence*.  
 8:20 Patricia M. Martin\*, Université De Montréal, *The spatialities and temporalities of impunity in Mexico*.  
 8:40 Amy Piedalue, PhD\*, Australia India Institute & University of Melbourne, *Slow Non-Violence: Muslim Women Resisting the Everyday Violence of Dispossession and Marginalization*.  
 9:00 Rachel Brydolf-Horwitz\*, University of British Columbia, *Beyond the Digital/Corporeal Divide: Violence Online, Legal (In)visibility, and Recognition of Harm*.  
 9:20 Diana Derry\*, Department of Geography and Environmental Sustainability, University of Oklahoma, *Slow violence of (non)representations of intimate violence fatalities in Oklahoma*.

## 4184. Geographies of Dissociation I (Sponsored by Economic Geography Specialty Group)

**Room:** Fairfield, Marriott, Third Floor (Paper Session)  
 ORGANIZER(S): Martin H. Hess, University of Manchester; Oliver Ibert, Leibniz-Institute for Regional Development and Structural Planning Erkner  
 CHAIR(S): Martin H. Hess, University of Manchester  
 8:00 Oliver Ibert\*, Leibniz-Institute for Research on Society and Space; Martin Hess, University of Manchester; Dominic Power, University of Stockholm, *Geographies*

*of Dissociation - Towards a Research Agenda*.

8:20 Ulrich Ermann, University of Graz, Department of Geography and Regional Science; Heide K. Bruckner, University of Graz, Department of Geography and Regional Science, *Meeting and Eating the Animal*.  
 8:40 Steve Wood\*, University of Surrey; Iain Watson, University of Surrey, *Geographies of Knowledge and Decision-Making within Online Multinational Fashion Retailers - Virtual Stores, Virtual Communities, Virtual Decisions?*.  
 9:00 Ashok Kumar\*, Queen Mary University of London, *Visible Labour, the Consumer Gaze & Value Chain Consolidation*.  
 9:20 Siobhan McGrath, PhD\*, Durham University, *Dis/articulating Development: An alternative to the GPN approach?*.

## 4185. Graduate Student Health and Wellbeing: A Frank Discussion I (Sponsored by AAG Careers and Professional Development Theme, Paleoenvironmental Change Specialty Group, Graduate Student Affinity Group, Health and Medical Geography Specialty Group)

**Room:** Salon H, Marriott, Fourth Floor (Panel Session)  
 ORGANIZER(S): Matthew T. Kerr, The University of Tennessee  
 CHAIR(S): Matthew T. Kerr, The University of Tennessee  
 Introducer: Matthew T. Kerr  
 Panelists: Jordan Brasher, University of Tennessee; Anna Agosta G'meiner, McGill University; Nathan S. Gill, USGS Pacific Island Ecosystems Research Center; Nicole Suzanne Hutton, Old Dominion University; Michael Strong, Towson University; Martina Angela Caretta, West Virginia University

## 4186. Geographies of the Anthropocene

**Room:** Salon I, Marriott, Fourth Floor (Paper Session)  
 ORGANIZER(S): Program Committee  
 CHAIR(S): Jacob Barber, University of Edinburgh, Scotland  
 8:00 John E Hasse, Ph.D.\*, Rowan University, *Geography & Big History: Earth Storytelling as a Roadmap for the Anthropocene*.  
 8:20 Erik Swyngedouw\*, University of Manchester, *O Tempora! O Mores! Interrupting the Anthro-Obscene*.  
 8:40 TAHMET ERTEK\*, A.Prof.Dr., *Some antropogenic geomorphological features and the geomorpho-chronological destructions in Turkey*.  
 9:00 Jacob Barber\*, University of Edinburgh, Scotland, *Disciplinarity, Epistemic Friction, and the 'Anthropocene'*.

## 4188. Phenological Responses to Climate Change (I) (Sponsored by Remote Sensing Specialty Group, Climate Specialty Group, Biogeography Specialty Group)

**Room:** Salon K, Marriott, Fourth Floor (Paper Session)  
 ORGANIZER(S): Shiguo Jiang, SUNY - Albany; Andrei Lapenis, SUNY - Albany; Alexander Buyantuev, University at Albany, SUNY  
 CHAIR(S): Shiguo Jiang, SUNY - Albany  
 8:00 Gregory Burris\*, Florida State University, *Historical Temperature Reconstruction Using Phenological Observations*.  
 8:20 Linda Sylvester\*, Oak Ridge National Laboratory; OluFemi Omitaomu, Oak Ridge National Laboratory; Esther Parish, Oak Ridge National Laboratory, *Analyzing the Implications of Climate Projections for Plant Hardiness Zones*.  
 8:40 Xin Miao\*, Missouri State University; Michael Goerndt, Missouri State University; Wenqing Qiu, Missouri State University, *Monitoring vegetative response to climate fluctuation and seasonal change through UAS-based hyperspectral sensor and camera system*.  
 9:00 Alexander Buyantuev\*, University at Albany, SUNY; Andrei Lapenis, University at Albany, SUNY; Shiguo



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Jiang, University at Albany, SUNY; George Robinson, University at Albany, SUNY; Clare Gaffey, University at Albany, SUNY; Marie Orton, University at Albany, SUNY, *Reconciliation of plant phenology across scales: understanding the relations between tree physiology dynamics, tree canopy phenology and satellite-observed landscape phenology.*

- 9:20 Andrei Lapenis\*, SUNY - Albany; Gregory Lawrence, United States Geological Survey; Alexander Buyantuev, SUNY - Albany; Shiguo Jiang, SUNY - Albany; Timothy Sullivan, E&S Environmental Chemistry, Corvallis, OR, USA; Todd McDonnell, E&S Environmental Chemistry, Corvallis, OR, USA; Scott Bailey, USDA Forest Service, North Woodstock, NH, USA, *Soil Turnover as Biogeochemical Constraint of Plants Sensitivity to Warming.*

## 4189. IJGIS 2016 Paper Highlights (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group, Spatial Analysis and Modeling Specialty Group)

Room: Vineyard, Marriott, Fourth Floor (Paper Session)  
ORGANIZER(S): May Yuan, University of Texas - Dallas  
CHAIR(S): David O'Sullivan, University of California, Berkeley  
8:00 Bi Yu Chen\*, Wuhan University; Hui Yuan, Wuhan University; Qingquan Li, Shenzhen University; Shih-Lung Shaw, University of Tennessee; William H.K. Lam, The Hong Kong Polytechnic University; Xiaoling Chen, Wuhan University, *Spatiotemporal data model for network time geographic analysis in the era of big data.*

8:20 Alex Singleton\*, University of Liverpool; Seth E. Spielman, University of Colorado, *Establishing a Framework for Open Geographic Information Science.*

8:40 Stefan Wiemann\*, TU Dresden; Lars Bernard, TU Dresden, *Spatial data fusion in Spatial Data Infrastructures using Linked Data.*

9:00 Peter Ranacher\*, Department of Geography, University of Zurich; Richard Brunauer, Salzburg Research Forschungsgesellschaft mbH; Wolfgang Trutschnig, Department of Mathematics, University of Salzburg; Stefan Van der Spek, Faculty of Architecture, Department of Urbanism, Delft University of Technology; Siegfried Reich, Salzburg Research Forschungsgesellschaft mbH, *Why GPS makes distances bigger than they are.*

Discussant(s): May Yuan, University of Texas - Dallas

## 4190. Decisions, Decisions? Decision Making During Disasters (Sponsored by Hazards, Risks, and Disasters Specialty Group)

Room: Yarmouth, Marriott, Fourth Floor (Paper Session)  
ORGANIZER(S): Laura Kathryn Siebeneck, University of North Texas

CHAIR(S): Laura Kathryn Siebeneck, University of North Texas

8:00 Li-San Hung, Pennsylvania State University, *Risk perceptions, hurricane experiences, and married couple's decision-making on household hurricane preparedness: A dyadic approach.*

8:20 Kevin Ash\*, University of South Florida; Ronald Schumann, University of North Texas; Gregg Bowser, Obsidian, a Cadmus Company, *Do Personal Characteristics and Prior Experiences Matter When Interpreting a Visual Warning Graphic?.*

8:40 Dean Kyne\*, The University of Texas Rio Grande Valley, *A Model of Evacuation-Decision Making for a Potential Hurricane Event in Rio Grande Valley.*

9:00 Kimberly Klockow\*, NOAA/OAR; Randy Peppler, Cooperative Institute for Mesoscale Meteorological Studies; Patrick Marsh, Storm Prediction Center, *A Closer Look at Perceived Tornado Behavior: Disentangling the Effects of Place Attachment and*

*Local Climatology.*

9:20 Yago Martin\*, University of South Carolina, *Exploring twitter reaction to hurricane Matthew: uncovering temporal and spatial response..*

## 4191. Urban Economies and the Ordinary Life F: Segregation in Cities I

Room: Nantucket, Marriott, Fourth Floor (Paper Session)  
ORGANIZER(S): John Miron, University of Toronto  
CHAIR(S): Jason E. VanHorn, Calvin College

8:00 John Brennan\*, Department of Public and International Affairs, *The Early Use of the Census Tract as an Instrument of Segregation: The Case of Cleveland Ohio in the 1930s.*

8:20 Daniel J. Hammel\*, University of Toledo; Isabelle Nilsson, University of North Carolina - Charlotte, *Mortgage Foreclosures and the New Redlining: Race and Lending in High Foreclosure Neighborhoods.*

8:40 Arnisson Andre Caparas Ortega\*, University of the Philippines, *Battle in suburbia: spatialities of violent suburban-ization in Manila's fringe.*

9:00 Venla Bernelius, Ph.D.\*, University of Helsinki; Mari Vaattovaara, Professor, University of Helsinki; Matti Kortteinen, Professor, University of Helsinki, *Segregation And Solidarity: The Nordic Welfare State And The Perseverance Of Solidarity And Altruistic Behavior In Deprived Neighborhoods.*

9:20 Jason E. VanHorn, PhD\*, Calvin College; Julie Bylsma\*, Calvin College; Kevin den Dulk, PhD, Calvin College, *Spatial Organization for Returning Citizens.*

## 4192. Geospatial Health Research Symposium: Applications I (Sponsored by Geographic Information Science and Systems Specialty Group, Spatial Analysis and Modeling Specialty Group, Health and Medical Geography Specialty Group)

Room: Provincetown, Marriott, Fourth Floor (Paper Session)  
ORGANIZER(S): Eric M. Delmelle, University of North Carolina at Charlotte; Michael J. Widener, University of Toronto; Mei-Po Kwan, University of Illinois at Urbana-Champaign

CHAIR(S): Wei Tu, Georgia Southern University

8:00 Sumeeta Srinivasan\*, Tufts University; Bisola Ojikutu, Harvard University, *Does where you live affect your health? A spatial analysis of HIV incidence in Atlanta, New Orleans and Houston.*

8:20 Reece A. Golz\*, XiaoHeng Liu, Ph.D., San Francisco State University; Courtney Donovan, Ph.D., San Francisco State University, *Incidence Rates of Acute Appendicitis in Washington State: A Geographic Analysis.*

8:40 Wei Tu\*, Georgia Southern University, *Analyzing the spatial and temporal dynamics of preterm birth rates in Georgia, USA.*

9:00 Dominique Mathon\*, INRS Urbanisation Culture Societe; Philippe Apparicio, INRS Urbanisation Culture Societe; Ugo Lachapelle, Universite du Quebec a Montreal, *Measuring the cross-border spatial accessibility of healthcare in the North East Department of Haiti using a GIS-based floating catchment area method.*

9:20 S. Wright Kennedy\*, Rice University, *The New Orleans Mortality Project: Mapping the Impact of Health, Environment, and Socioeconomics, 1877-1915.*

Discussant(s): Eric M. Delmelle, University of North Carolina at Charlotte

## 4193. Authors Meet Critics: Pierpaolo Mudu & Sutapa Chattopadhyay's "Migration, Squatting and Radical Autonomy" and Harald Bauder's "'Migration Borders Freedom" (Sponsored by Political Geography Specialty Group, Ethics, Justice, and Human Rights Specialty Group)

Room: Orleans, Marriott, Fourth Floor (Panel Session)  
ORGANIZER(S): Laura Pulido, University of Oregon - Eugene,

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CHAIR(S): Nik Theodore, University of Illinois at Chicago  
Introducer: Laura PulidoDiscussant(s): Pierpaolo Mudu, University of Washington  
- Tacoma; Sutapa Chattopadhyay, UNU-Merit &  
Maastricht University; Harald Bauder, Ryerson  
UniversityPanelists: Reece Jones, University of Hawaii at Manoa; SILVIA  
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## 4194. Spatiotemporal Symposium -- Big Spatiotemporal Data Discovery and Mining (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group)

Room: Hyannis, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Yongyao Jiang, George Mason University;  
Jesse Piburn, Oak Ridge National Laboratory

CHAIR(S): Weihe Wendy Guan, Harvard University

8:00 Gengchen Mai\*, University of California - Santa Barbara,  
CA, *ADCN: An Anisotropic Density-Based Clustering  
Algorithm for Discovering Spatial Point Patterns with  
Noise*.8:20 André Skupin\*, San Diego State University; Timothy  
Schempp, San Diego State University; Michael White,  
Tejon Ranch Conservancy; Ben Teton, Tejon Ranch  
Conservancy, *Modeling Wild Pigs: Social and Other  
Networks*.8:40 Yang Shao\*, Virginia Tech; Gregory N Taff, Norwegian  
Institute of Bioeconomy Research; Marit Jørgensen,  
Norwegian Institute of Bioeconomy Research,  
*Detection of winterkill in grasslands in Norway using  
spatial-temporal satellite data mining*.9:00 Tony H. Grubestic\*, Arizona State University; Edward  
Helderop, Arizona State University, *Guerilla Data  
Collection: Estimating the Spatial Provision of Google  
Fiber*.9:20 Zhou Zhou\*, SUNY - Binghamton, *Using big data to make  
an index of quality of life in New York City*.

## 4195. Practicing and Representing Everyday Life (Sponsored by Russian, Eurasian Specialty Group, Cultural Geography Specialty Group, Economic Geography Specialty Group)

Room: Falmouth, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Jeremy Tasch, Towson University

CHAIR(S): Jeremy Tasch, Towson University

8:00 Garrett Wolf\*, The University of Manchester, Fulbright,  
*Demodernization and Development: Transformations  
of Uzbek Urbanism*.8:20 Ivan Mitin\*, National Research University Higher School  
of Economics, *On the Way towards GeoHumanities:  
Russian & Soviet Cultural Geography Revisited*.8:40 Mika Hasanen\*, South Dakota State University, *Russian  
Real Estate Purchases in Finland*.9:00 Wei-Kuang Liu\*, Architecture, Feng Chia University,  
Taiwan; Yang-Ting Shen, Architecture, Feng Chia  
University, Taiwan; Yi-Shiang Shiu, Urban Planning  
and Spatial Information, Feng Chia University, Taiwan;  
Feng-Cheng Lin, GIS Research Center, Feng Chia  
University, Taiwan; Nian-Sin Liou, Architecture, Feng  
Chia University, Taiwan, *The Exploration of Everyday  
Life Geographic Information of Urban 'Qilou' Space  
in Taiwan: Everyday Public Appropriation of Private  
Lands*.9:20 Muna Guvenc, Dr.\*, University of Pittsburgh, *The Spectacle  
of Urban Demonstrations and Spaces of Opposition in  
the City*.

## 4196. Critical Geographies of Subsurface, Sky, and Other Inscrutable Spaces, I (Sponsored by Cultural and Political Ecology Specialty Group, Human Dimensions of Global Change Specialty Group, Water Resources Specialty Group)

Room: Maine, Marriott, Fifth Floor (Paper Session)

ORGANIZER(S): Adrienne Kroepsch, University of Colorado At  
Boulder; Katherine CliffordCHAIR(S): Adrienne Kroepsch, University of Colorado At  
Boulder8:00 Trevor Birkenholtz\*, University of Illinois at Urbana-  
Champaign, *Producing the Subsurface: Rendering  
groundwater socioecologies visible and knowable*.8:20 Katherine Clifford\*, University of Colorado at Boulder,  
*Dust's (in)visible circulations: contradictory claims in  
inscrutable spaces*.8:40 Katheryn Marie Detwiler\*, The New School for Social  
Research, *The Chilean Sky: Mining and Data-Mining  
in the Atacama Desert*.9:00 Adrienne Kroepsch\*, Colorado School of Mines,  
*Groundwater Systems, Modeling, and Governance:  
Knowing and Contesting Inscrutable Hydrosocial  
Spaces and Circulations*.

Discussant(s): Christine Biermann, University of Washington

## 4197. Geographical Perspectives on Families

Room: Massachusetts, Marriott, Fifth Floor (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Einar Holm, Umeå University

8:00 Stevie Larson\*, Spelman College, *Molecules in a Dying  
Engine: The Geographies of Transnational Adoption's  
Twilight*.8:20 Jenny Lovell\*, University of California - Santa Cruz,  
*Reproductive Work in the Vietnamese Mekong Delta*.8:40 Einar Holm, prof\*, Umeå University; Kerstin Westin, prof,  
Umeå University; Katarina Haugen, senior lecturer,  
Umeå University, *Kinship, Place and Employment*.

## 4198. Neo-Extractivism, Resource Nationalism, and 'New' Geographies of Resource Governance and Development (1) (Sponsored by Political Geography Specialty Group, Cultural and Political Ecology Specialty Group, Development Geographies Specialty Group)

Room: New Hampshire, Marriott, Fifth Floor (Paper Session)

ORGANIZER(S): Emily Billo, Goucher College; Meredith J.

DeBoom, University of Colorado at Boulder

CHAIR(S): Emily Billo, Goucher College

8:00 Adrienne Johnson\*, York University, *Pudrición del Cogollo  
and the (Post-)Neoliberal Ecological Fix in Ecuador's  
Palm Oil Industry*.8:20 Jarren Richards\*, York University, *Industrial Development,  
Resource Governance, and the Dialectics of  
Dispossession in Odisha, India*.8:40 Christopher Keller Morris, PhD\*, Clarkson University,  
*Africa's Extracts: Dis/Order, Labor, and the Biotrade  
in Raw Materials for Pharmaceuticals in a Former  
Apartheid Homeland*.9:00 Gareth Edwards\*, University of East Anglia, *Coal, Climate  
Change and the Politics of the Carmichael 'Mega-  
Mine'*.9:20 Jennifer Lawrence\*, Virginia Tech, *Extreme Energy  
Extraction*.

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**4199. Regional Development and Urban Planning Series I**  
**(Sponsored by Regional Development and Planning Specialty**  
**Group, Urban Geography Specialty Group, Development**  
**Geographies Specialty Group)**

*Room: Vermont, Marriott, Fifth Floor (Paper Session)*

ORGANIZER(S): Zachary A. Jones, Eastern Michigan  
 University; Diganta Das, Nanyang Technological  
 University

CHAIR(S): Barbara Lucia Pinheiro Oliveira França, University of  
 Minas Gerais Brazil

**8:00** Olga Shevchenko\*, NISS, *Adaptive scheme for regulation*  
*and alignment of regional disparities.*

**8:20** Rajrani Kalra\*, California State University - San  
 Bernardino, *Tourism and Urban Development in*  
*Chennai, India: An Exploratory Spatial Data Analysis.*

**8:40** Nathalie Christmann, University of Luxembourg, *Extending*  
*the scale of critical housing studies: Towards 'cross-*  
*border gentrification'?*

**9:00** Daniel Franco, Architect\*, Universidad de Sonora, El  
 Colegio de Sonora, *The human right to mobility and*  
*quality public space in Latin American cities. Benefits*  
*of the pedestrianisation..*

**9:20** Barbara Lucia Pinheiro Oliveira França\*, University  
 of Minas Gerais Brazil, *Planning and Regional*  
*Development: Is There a New Urban Regime in the*  
*Belo Horizonte Metropolitan Region, Brazil?.*

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Poster Sessions for Saturday are located on pages 322-326.

## 4201. Author Meets Critics: Ugo Rossi's "Cities in Global Capitalism"

**Room:** Room 101, Hynes, Plaza Level (Panel Session)  
 ORGANIZER(S): Theresa Enright, University of Toronto  
 CHAIR(S): Theresa Enright, University of Toronto  
 Discussant(s): Ugo Rossi, Università di Torino  
 Panelists: Pauline McGuirk, University of Wollongong, Australia;  
 Lisa Bjorkman; Allen J. Scott, University of California  
 - Los Angeles; Jamie Peck, University of British  
 Columbia; Mark Purcell, University of Washington

## 4202. Food, Agriculture, and Livelihoods under a Changing Climate in India

**Room:** Room 102, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): Ashwini Chhatre, Indian School of Business  
 CHAIR(S): Ruth DeFries, Columbia University  
**10:00** Meha Jain\*, University of Michigan; Balwinder Singh,  
 International Maize and Wheat Improvement Center;  
 Amit Srivastava, International Maize and Wheat  
 Improvement Center; R.K. Malik, International Maize  
 and Wheat Improvement Center; Andrew McDonald,  
 International Maize and Wheat Improvement Center;  
 David B Lobell, Stanford University, *Using Satellite  
 Data to Unpack Causes of Yield Gaps in India's Wheat  
 Belt.*  
**10:20** Ashwini Chhatre\*, Indian School of Business, *Impact of  
 intra-season climate variability on crop yields.*  
**10:40** Kyle Frankel Davis\*, The Earth Institute, Columbia  
 University; Ruth DeFries, Columbia University; Brian  
 Richter, The Nature Conservancy; Davide Chiarelli,  
 Politecnico di Milano; Deepti Singh, Columbia  
 University; Ashwini Chhatre, Indian School of  
 Business; Samuel Myers, Harvard University; Matthew  
 Smith, Harvard University, *Towards Climate Resilient  
 and Nutritious Cereal Crops in India.*  
**11:00** Harry W Fischer\*, La Trobe University; Ashwini Chhatre,  
 Indian School of Business, *Rural livelihoods, natural  
 resource access, and differentiated public support:  
 Tracing pathways of adaptation in rainfed livelihoods  
 of India.*  
 Discussant(s): Ruth DeFries, Columbia University

## 4203. Human Rights and Disabilities: High-Level Perspectives From the Academy and Beyond (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme)

**Room:** Room 103, Hynes, Plaza Level (Panel Session)  
 ORGANIZER(S): John Wertman, American Association of  
 Geographers; Mainstreaming Human Rights  
 CHAIR(S): Audrey L. Kobayashi, Queen's University  
 Panelists: Nancy Ellen Hansen, University of Manitoba; Robert  
 Dinerstein, American University, Washington College  
 of Law; Eric Rosenthal, Disability Rights International

## 4204. Catching up with the frontier of innovation 2 (Sponsored by Economic Geography Specialty Group, Business Geography Specialty Group)

**Room:** Room 104, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): Jung Won Sonn, University College London;  
 Robert Hassink, Dept. of Geography, University of  
 Kiel  
 CHAIR(S): Jung Won Sonn, University College London  
**10:00** Huiwen Gong, Kiel University; Robert Hassink, Kiel  
 University, *Which windows matter for the catch-up  
 process? The case of Shanghai's video games sector.*  
**10:20** Liang-Chih Chen, Graduate Institute of Building and  
 Planning, National Taiwan University, *Creating  
 innovative spaces: Hackathons in Taiwan.*  
**10:40** He Wang\*, City University of Hong Kong, *The Experts  
 Flown-in: A study of IT consulting sector in Hong  
 Kong.*

**11:00** Kyung-Min Nam\*, University of Hong Kong,  
*Environmental Regulations as Industrial Policy:  
 Evidence from the Global Automotive Industry.*  
 Discussant(s): Sebastian Henn, University of Jena

## 4205. Planning the (White) City: Neoliberal Urbanism and the Rise of the Homogenous City, Session II (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme, Urban Geography Specialty Group)

**Room:** Room 105, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): Aretina Rochelle Hamilton, University of  
 Kentucky  
 CHAIR(S): Kaelyn D. Rodriguez, UCLA  
**10:00** Katera Y Moore, PhD, MES\*, University of Pennsylvania,  
*Non-Participatory Planning: Placing Marginal People  
 in Harm's Way.*  
**10:20** Kaelyn D. Rodriguez, M.A.\*, UCLA, *Emoji Mapping in  
 Los Angeles: Locating Memories and the Black Spatial  
 Imaginary in Watts.*  
**10:40** Jason Burke Murphy, PhD\*, Elms College, *Basic Income,  
 Distorted Communication, and the City.*  
 Discussant(s): Aretina Rochelle Hamilton, University of  
 Kentucky

## 4206. Territorial Articulations and Shifting Legal Geographies: Indigenous and Native Rights in the Americas 2 (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme, Cultural and Political Ecology Specialty Group, Indigenous Peoples Specialty Group)

**Room:** Room 107, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): Sarah Kelly-Richards, School of Geography  
 and Development, University of Arizona; Joel E.  
 Correia, University of Colorado, Boulder  
 CHAIR(S): Sarah Kelly-Richards, School of Geography and  
 Development, University of Arizona  
**10:00** Carwil R Bjork-James\*, Vanderbilt University,  
*Extractivism Strikes Back: The Administrative  
 Neutralization of Indigenous Territorial Autonomy in  
 Plurinational Bolivia.*  
**10:20** Joel E. Correia\*, University of Colorado, Boulder, *Life in  
 the gap: Liminal legal geographies, indigenous rights,  
 and politics of the possible.*  
**10:40** Sarah Kelly-Richards\*, School of Geography and  
 Development, University of Arizona, *Fragmented  
 Consultations, Territorial Recuperation: Small  
 Hydropower, Indigenous Rights, and Environmental  
 Institutions in Puelwillimapu Territory (Southern  
 Chile).*  
**11:00** Marcela Velasco\*, Colorado State University, *Local  
 variation in indigenous self-government in Colombia.*  
 Discussant(s): Tom Perreault, Syracuse University

## 4207. Case Studies in Passenger Rail and Freight Rail Partnerships (Sponsored by Transportation Geography Specialty Group)

**Room:** Room 108, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): Michael Minn, Eastern Washington University;  
 Andrew R. Goetz, University of Denver  
 CHAIR(S): Michael Minn, Eastern Washington University  
**10:00** Michael Minn, Eastern Washington University,  
*Case Studies in Passenger Rail and Freight Rail  
 Partnerships.*  
**10:20** Sylvia Arriaga Brady\*, University of Denver; Andrew R.  
 Goetz, University of Denver, *Passenger and freight  
 rail partnerships in shared-use corridors: A Denver  
 case study.*  
**10:40** Keith A. Ratner, PhD\*, Salem State University, *Sharing  
 Rail Corridors in the Boston Region, A Case Study of  
 Cooperation.*  
**11:00** Julie Cidell\*, University of Illinois, *The shared corridors  
 and complexities of passenger and freight rail in the  
 Chicago region.*  
 Discussant(s): Andrew Ryder, The University of Portsmouth, UK



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## 4208. Sexuality and Space 20+1 I: Genealogies (Sponsored by Sexuality and Space Specialty Group)

Room: Room 109, Hynes, Plaza Level (Panel Session)

ORGANIZER(S): Julie A. Podmore, John Abbott College; Max Andrucki, Temple University; Farhang Rouhani, University of Mary Washington

CHAIR(S): Max Andrucki, Temple University

Panelists: Michael Brown, University of Washington; Lynda Johnston, University of Waikato; Lawrence Knopp, University of Washington Tacoma; Heidi J. Nast, DePaul University; Tamar Y. Rothenberg, Bronx Community College of the City University of New York; Dereka Rushbrook, University of Arizona

## 4209. Animal Geographies 2: Northern and Arctic Concerns (Sponsored by Animal Geography Specialty Group, Indigenous Peoples Specialty Group)

Room: Room 110, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): RDK Herman, National Museum of the American Indian

CHAIR(S): Devin Waugh

10:00 Marilyn Raphael\*, UCLA; Mark S. Handcock, UCLA, *Spatial and temporal variation in Antarctic sea ice variability and trends.*

10:20 Tracy L. DeLiberty\*, University of Delaware; Jessica F. Lee, University of Delaware, *Antarctic minke whales and their relationship to dynamic sea ice habitat.*

10:40 Devin Waugh\*, University of Guelph; Tristan Pearce, University of the Sunshine Coast; Sonja Ostertag, Fisheries and Oceans Canada; Ben Bradshaw, University of Guelph, *Inuvialuit Traditional Ecological Knowledge (TEK) of Beluga Whale (Delphinapterus leucas) in a Changing Climate..*

## 4210. "Religion/Geography Intersections: Removing the Silences" (Sponsored by Geography of Religions and Belief Systems Specialty Group)

Room: Room 111, Hynes, Plaza Level (Panel Session)

ORGANIZER(S): David J. Butler, Department of Geography, University College Cork (UCC); Vincent Artman, Wayne State University; Justin Tse, University of Washington

CHAIR(S): David J. Butler, Department of Geography, University College Cork (UCC)

Introducer: David J. Butler

Discussant(s): Stanley D. Brunn, University of Kentucky; Justin Tse, University of Washington; David J. Butler, Department of Geography, University College Cork (UCC)

Panelists: Darrel L. McDonald, Stephen F Austin State University; Vincent Artman, Wayne State University

## 4211. Literary and Historic Geographies

Room: Room 200, Hynes, Second Level (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Taylor E. Mack, Louisiana Tech University

10:00 Ramesh C. Dhussa, Associate professor\*, Drake University, *Comprehensive Geographic knowing of a Place: Understanding Literary Dimension.*

10:20 Richard A. Waugh\*, University Of Wisconsin, Platteville; L. Lynnette Dornak, University of Wisconsin-Platteville; Adam J. Donaldson, University of Wisconsin-Platteville, *The Perception of Texas History as a Function of Geography.*

10:40 Nicolas Ortega\*, Universidad Autonoma de Madrid, *Geography and Landscape in the Work of Spanish Writer Miguel de Unamuno (1864-1936).*

11:00 Malcolm Richardson\*, Louisiana State University; Gabriele Richardson, PhD Candidate, Louisiana State University, *The Geography of London Legal Education Before 1500.*

11:20 Taylor E. Mack\*, Louisiana Tech University, *Must the*

*Country be Given Away? Comparing Contracts for Honduras' 1853 Inter-Oceanic Railroad and Nicaragua's 2013 Inter-Oceanic Canal.*

## 4212. Engagements with nature-based tourism (Sponsored by Recreation, Tourism, and Sport Specialty Group)

Room: Room 201, Hynes, Second Level (Paper Session)

ORGANIZER(S): Elizabeth S. Vidon, SUNY-ESF; Jarkko J. Saarinen, University of Oulu

CHAIR(S): Elizabeth S. Vidon, SUNY-ESF

10:00 Natalie Kooi Sim Ooi, PhD\*, Colorado State University; TODD FRANKS\*, Colorado State University, *Exploring the Potential for a Broad-based Collaborative Study of Current Nature-Based Tourism and Recreation Resource Use in the Rocky Mountain Region.*

10:20 Chikondi Hansini Thole, Mrs\*, Stellenbosch University; Thomas Kweku Taylor, Professor, Copperbelt University; Paul Vedeld, Professor, Norwegian University of Life Sciences, *The Dynamism of National Tourism Policies and Wildlife Diversity in National Parks: An Institutional Comparison on Performance of Luangwa and Kafue National Parks in Zambia.*

10:40 Kristina Nilsson Lindstrom\*, University of Gothenburg; Erik Lundberg, University of Gothenburg; Erik Lundberg\*, University of Gothenburg, *Researching local communities: Towards a research design for inclusive tourism.*

11:00 Dung Thi Ngoc Nguyen\*, University of Waikato, *The Role of Local Communities in Community-based Tourism Development in Traditional Tea Production Areas in Thai Nguyen Province, Vietnam.*

11:20 Karly Marie Miller\*, Interdepartmental Graduate Program in Marine Science, UC Santa Barbara, *Livelihood Transitions in the Colombian Pacific - Evaluating the Social and Environmental Impacts of Rural Tourism Development.*

## 4213. Reparations, Restitution, Reconciliation? Part 2

Room: Room 202, Hynes, Second Level (Paper Session)

ORGANIZER(S): Emily Gilbert, University of Toronto

CHAIR(S): Emily Gilbert, University of Toronto

10:00 Jennifer Matsunaga, PhD Candidate\*, Queen's University, *Truth-telling and Compensation: What compensation makes in/visible about historical injustice.*

10:20 Fredy A Mora-Gamez, PhD\*, University of Leicester, *Reparation beyond statehood: Betraying rights restitution in post-conflict Colombia.*

10:40 Diane Nelson, Cultural Anthropology\*, Duke University, *The Algebra of Genocide: Number as/and Repair.*

11:00 Emily Gilbert\*, University of Toronto, *War, Terrorism and the Geopolitics of Compensation.*

## 4214. Career Mentoring D (Sponsored by AAG Careers and Professional Development Theme)

Room: Room 203, Hynes, Second Level (Panel Session)

ORGANIZER(S): Mark Revell, American Association of Geographers

CHAIR(S): Mark Revell, American Association of Geographers  
Discussant(s): Lisa Rainey Brownell, Ohio State Historic Preservation Office; Heather R. Houlton, American Geosciences Institute; Candice Luebbering, American Association of Geographers

## 4215. Black Matters are Spatial Matters

Room: Room 204, Hynes, Second Level (Panel Session)

ORGANIZER(S): LaToya Eaves, Middle Tennessee State University; Rashad Shabazz, Arizona State University

CHAIR(S): LaToya Eaves, Middle Tennessee State University

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## 4216. 'Doing' memory research differently (II) (Sponsored by Qualitative Research Specialty Group, Cultural Geography Specialty Group)

Room: Room 205, Hynes, Second Level (Paper Session)

ORGANIZER(S): Danielle Drozdowski, UNSW; Carolyn Jade Birdsall, University of Amsterdam

CHAIR(S): Carolyn Jade Birdsall, University of Amsterdam

10:00 Katharine G. Trostel, PhD Candidate in Literature\*, University of California - Santa Cruz; Amanda Sharick, PhD Candidate in English, University of California, Riverside, *"Thick-Mapping" the Venice Ghetto at 500: Story Maps and Digital Storytelling*.

10:20 Sarah De Nardi, Dr\*, Durham University; Michael Crang, Prof, Durham University; Nicky Gregson, Prof, Durham University, *Mapping Nostalgia? An Ethnography of the Postwar Coal mining Cultures of Northeast England through the Medium of Collaborative Mapping*.

10:40 Mark Alan Rhodes\*, Kent State University, *Becoming Paul Robeson: Merging Ethnomusicological and Geographic Methods to Understand the Place, Performance, and Memory of Theatre*.

11:00 Sarah Gensburger\*, French National Center for Scientific Research, *Sociology on my doorstep. Chronicles of the memorialization of the "Bataclan neighborhood"*.

11:20 Margo Shea, Ph.D.\*, Sewanee: the University of the South, *Participatory Methodologies in the Study of Cultural and Community Memory*.

## 4217. OpenStreetMap in Research, Education, and Applied Projects (Sponsored by AAG Mapathon)

Room: Room 206, Hynes, Second Level (Paper Session)

ORGANIZER(S): Patricia A. Solis, Texas Tech University - Lubbock, TX; Sven Fuhrmann, George Mason University

CHAIR(S): Sven Fuhrmann, George Mason University

10:00 Cynthia A. Brewer\*, Pennsylvania State University; Aaron P. Dennis, Pennsylvania State University; Peter J. Koby, Pennsylvania State University; William C. Chittester, Pennsylvania State University; Jodi C. Vender, Pennsylvania State University, *Incorporating OpenStreetMap Data in Penn State's Online Campus Map*.

10:20 Jennings Anderson\*, University of Colorado Boulder; Kenneth Anderson, University of Colorado Boulder; Leysia Palen, University of Colorado Boulder; Mikel Maron, Mapbox, *Contributor-Centric OpenStreetMap Research*.

10:40 Tricie Coulter Mauray\*, University of Central Florida; Rhena Anna Victoria South, University of Central Florida; Ian Biazzo, University of Central Florida; Andrea Romero, University of Central Florida, *How to Reach the World from One Campus: A Case Study on the Use of OpenStreetMap by an Interdisciplinary Student Organization*.

11:00 Daisy Tam\*, Hong Kong Baptist University; Tomas Holderness, Massachusetts Institute of Technology; Melissa Cate Christ, Hong Kong Polytechnic University, *HKFoodWorks: Crowd-Sourcing Food Rescue in Hong Kong*.

11:20 Benjamin G. Lewis, Harvard University; Weihe Wendy Guan\*, Harvard University, *Harvard Hypermap: An Open Source Framework for Making the World's Geospatial Information more Accessible*.

## 4219. The process of Metropolisation: Reconfiguring the city at the regional scale I

Room: Room 210, Hynes, Second Level (Paper Session)

ORGANIZER(S): Evert Meijers, Delft University of Technology; Rodrigo Cardoso, Delft University of Technology

CHAIR(S): Evert Meijers, Delft University of Technology

10:00 Kobe Boussauw, Free University Brussels; Michiel

van Meeteren, Ghent University; Joren Sansen, Ghent University; Evert Meijers, Delft University of Technology; Tom Storme, Ghent University; Erik Louw, Delft University of Technology; Frank Witlox, Ghent University, *Planning for agglomeration economies in a polycentric region: envisioning an efficient metropolitan core area in Belgium*.

10:20 Tinglin Zhang\*, East China Normal University; Bindong Sun, East China Normal University, *The Economic Performance of Polycentric Urban Structure: Evidence from China*.

10:40 Christophe Sohn, Luxembourg Institute of Socio-Economic Research; Julien Licheron, Luxembourg Institute of Socio-Economic Research, *From barrier to resource? Modelling the multiple effects of borders on metropolitan functions in Europe*.

11:00 Markus Hesse, University of Luxembourg; Catherine Wong, University of Luxembourg, *"Freeports": Driving vertical metropolisation in relational cities*.

11:20 Giulia Urso\*, Gran Sasso Science Institute, *Rural-urban relationships in metropolitan governance: insights from an Italian case*.

## 4220. Physical Geography Poster Session II

Posters for this session can be found on pages 322-326.

Room: Hall C, Hynes, Second Floor (Poster Session)

This session is a continuation of the previous timeslot, 4120.

## 4221. The European Research Council - attractive funding opportunities for frontier research

Room: Room 301, Hynes, Third Level (Panel Session)

ORGANIZER(S): Annekathrin Jaeger, European Research Council

CHAIR(S): Annekathrin Jaeger, European Research Council

Panelists: Anna Davies, Trinity College Dublin; Ian N. Gregory, Lancaster University; Isabelle Anguelovski, Universitat Autònoma de Barcelona; Rob Kitchin, National University Of Ireland Maynooth

## 4222. Physical Environmental Hazards

Room: Room 302, Hynes, Third Level (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Gia Huynh Truong Nguyen, Montclair State University

10:00 Hugo Sarmiento\*, *Cali's Plan Jarillon: Negotiating the Cost of Climate Change Adaptation*.

10:20 Charles Heck\*, Florida International University, *The biopolitics of disaster and the temporality of landslide interventions in Rio de Janeiro*.

10:40 Jalal Samia\*, Wageningen university; Arnaud Temme, Kansas State University; Arnold Bregt, Wageningen university; Jakob Wallinga, Wageningen university; Fausto Guzzetti, CNR IRPI, Italy; Francesca Ardizzone, CNR IRPI, Italy; Mauro Rossi, CNR IRPI, Italy, *Quantifying landslide path dependency*.

11:00 Gia Huynh Truong Nguyen\*, Montclair State University; Aleksey Y Sheshukov, Dr., Kansas State University; Pankaj Lal, Dr., Montclair State University, *Evaluating Soil Erodibility Parameters with Mini-JET Under Various Soil Moisture Conditions*.

## 4223. Indigenous Water Governance: Global geographies of water governance in Indigenous communities (Sponsored by Energy and Environment Specialty Group)

Room: Room 303, Hynes, Third Level (Paper Session)

ORGANIZER(S): Karen Bakker, University of British Columbia; Jennifer Baka, Pennsylvania State University

CHAIR(S): Jennifer Baka, Pennsylvania State University

10:00 Dr. Bharat KHUSHAL Punjabi, Dr.\*, University Of Toronto, *Old Wine in a New Bottle? Water Institutions and Geography in Mumbai's Renewed Push for extending its Hydrological Frontier*.

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**10:20** Sue Jackson, Associate Professor\*, Griffith University; Kate Berry, Professor, University of Nevada, Reno, *White water citizenship and the settler nation: historical identity formation and the implications for contemporary Indigenous water rights struggles in Australia and the U.S.*

**10:40** Tsion Mesfin Woge\*, Tsion Mesfin Woge, Water Cooperation and Peace Programme, *Indigenous Approaches to Water Conflict Negotiation: the Anuak and their Approaches to Water Conflict Negotiation.*

**11:00** Severine Bouard\*, Institut agronomique néo-Calédonien; Alexandre Budke, University of Cologne, Seminar für Geographie und ihre Didaktik, Gronewaldstr. 2, 50931 Cologne, Germany; Caroline Lejars, CIRAD, UMR G-eau, 34196 Montpellier Cedex 5, France. IAC, Institut agronomique néo-Calédonien, Nouvelles ruralités et destin commun, BP 06, 98825 Pouembout, Nouvelle-Calédonie; Joachim Bürkner, University of Potsdam, Institute of Geography, Karl ?Liebknecht -Straße 24/25, 14476 Potsdam, Germany.; Pierre-Yves Le Meur, IRD, Institut de recherche pour le développement, UMR Gouvernance, Risque, Environnement, Développement (GRED), Montpellier cedex 5, BP 64501, France.; Catherine Sabinot, IRD, Institut de recherche pour le développement, UMR Espace pour le Développement, Centre IRD Anse Vata, BPA5 98848 Nouméa Cedex, Nouvelle-Calédonie; Katherine Daniell, Fenner School of Environment and Society, Australian National University (ANU), Linnaeus Way, Acton, ACT 2601, Australia, *Investigating Freshwater governance in a decolonization context: knowledge, values & policies. The case of New-Caledonia.*

Discussant(s): Jennifer Baka, Pennsylvania State University

## 4224. Mary Gilmartin's "Ireland and migration in the twenty-first century"-Panel Discussion

Room: Room 304, Hynes, Third Level (Panel Session)

ORGANIZER(S): Lorraine Dowler, Penn State University; Harriet Hawkins, Royal Holloway, University of London

CHAIR(S): Harriet Hawkins, Royal Holloway, University of London

Introducer: Jamie L. Winders

Discussant(s): Siobhán McPhee, University of British Columbia

Panelists: Deirdre Conlon, University of Leeds / SPU; Neil Conner, University of Tennessee; Marie D. Price, George Washington University; Mary Gilmartin, Maynooth University

## 4225. Bread and water in the Middle East and Africa (Sponsored by Geographies of Bread and Water in the 21st Century Featured Theme)

Room: Room 305, Hynes, Third Level (Paper Session)

ORGANIZER(S): Bread and Water

CHAIR(S): Theophile Niyonzima

**10:00** Sarah Smiley\*, Kent State University, *Water Access in Rural Malawi.*

**10:20** Rami Zurayk\*, American University of Beirut, *The Empty Breadbasket: Geographies of Food and War in the Contemporary Arab Levant.*

**10:40** Steven Jeffrey Gilbert\*, Penn State University, *Drought and Climate Change in Jordan.*

**11:00** Theophile Niyonzima, PhD\*, University of Rwanda, *Cropping in Rwanda: experiences of climate shocks by food producers.*

## 4226. Inequality, Globalization, Nationalism and the State of Economic Geography

Room: Room 306, Hynes, Third Level (Panel Session)

ORGANIZER(S): Harald Bathelt, University of Toronto; Michael Storper, UCLA

CHAIR(S): Gordon L. Clark, Smith School of Enterprise and the Environment

Panelists: Harald Bathelt, University of Toronto; Gilles Duranton, University of Pennsylvania; Johannes Glückler, Heidelberg University; Janelle Knox-Hayes, MIT; Andres Rodriguez-Pose, London School Of Economics; Michael Storper, UCLA; Henry Wai-chung Yeung, National University of Singapore

## 4227. Food system transitions 2: Production practices (Sponsored by Cultural and Political Ecology Specialty Group, Rural Geography Specialty Group, Geographies of Food and Agriculture Specialty Group)

Room: Room 307, Hynes, Third Level (Paper Session)

ORGANIZER(S): Christoph David Dietfried Rupprecht, Research Institute for Humanity and Nature; Steven R. McGreevy, Research Institute for Humanity and Nature

CHAIR(S): Daniel Niles, Research Institute for Humanity and Nature

**10:00** Mona Seymour\*, Loyola Marymount University, *Veganic farming in the United States.*

**10:20** Ayako Kawai\*, Australian National University, *The potential of seed saving in constructing alternative food spaces in Japan.*

**10:40** Will Penner\*, University of Kansas, *Emerging Vulnerabilities in the Transition Towards Food Sovereignty.*

**11:00** Mai Kobayashi\*, Research Institute for Humanity and Nature, *Bhutan's Changing Landscape of Food Production: an organic agriculture policy and the adaptation of peasant farmers in the Himalayan Kingdom.*

**11:20** Catherine Day, M.S.\*, UW-Madison, *Agricultural Networks in Transition: Prospects for Change in New Mexico.*

## 4228. Resilience, Food, and Agriculture: Social-Ecological Frameworks for Sustainability and Social Justice II - Agroecological Approaches (Sponsored by Cultural and Political Ecology Specialty Group, Geographies of Bread and Water in the 21st Century Featured Theme, Geographies of Food and Agriculture Specialty Group)

Room: Room 308, Hynes, Third Level (Paper Session)

ORGANIZER(S): Russell Hedberg, Pennsylvania State University; Jennifer Blesh, University of Michigan

CHAIR(S): Jennifer Blesh, University of Michigan

**10:00** Russell C Hedberg II\*, Pennsylvania State University, *Towards a Framework for Agrobiogeochemical Resilience: Phosphorus, Soil Health, and Sustainability in a Local/Regional Food System Initiative.*

**10:20** Kristin L. Mercer\*, Ohio State University, *Can genetic variation in crops improve agricultural resilience and facilitate adaptation to climate change?.*

**10:40** Peter Huntington\*, University of Massachusetts Amherst, *Green Mountain Biochar: An exploration of the potential for biochar to benefit Vermont's zero-waste goal and beyond.*

**11:00** Hugo Fernandez-Mena\*, INRA, France; Sylvain Pellerin, INRA, France; Benoit Gaudou, Université Capitole Toulouse, France; Graham MacDonald, McGill University, Canada; Thomas Nesme, Bordeaux Sciences Agro, France, *Which are the flows driving local resilience? Simulating scenarios of material exchanges in agro-food networks through agent-based modelling.*

**11:20** Gerald Schwarz\*, Thuenen Institut of Farm Economics; Andis Zilans, University of Latvia; George Vlahos, Agricultural University of Athens, *What role can hybrid payments for ecosystem services play in promoting agro-ecological approaches in resilient farming systems - lessons learnt from case studies in the EU.*



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## 4229. Urban Remote Sensing from Local to Global Scale (II): Improving Urban Observations (Sponsored by Remote Sensing Specialty Group, Human Dimensions of Global Change Specialty Group, Urban Geography Specialty Group)

**Room:** Room 309, Hynes, Third Level (Paper Session)  
 ORGANIZER(S): Qihao Weng, Indiana State University; Changshan Wu, University of Wisconsin, Milwaukee  
 CHAIR(S): Changshan Wu, University of Wisconsin, Milwaukee  
 10:00 Changshan Wu\*, University of Wisconsin, Milwaukee, *Remote sensing of urban environments: a review.*  
 10:20 Daria Andrievskikh\*, Binghamton University, *Exurban development and its impact on land use: Kurgan region, Russia.*  
 10:40 K. Arthur Endsley\*, University of Michigan, *Understanding the Processes of Neighborhood Change in Detroit through a Satellite-based Land-Cover Change Proxy.*  
 11:00 Adam P. Dixon\*, University of Maryland, Baltimore County, *Ecologically relevant urban vegetation patterns in Baltimore, Maryland, USA.*

## 4230. Moving Methods II

**Room:** Room 310, Hynes, Third Level (Paper Session)  
 ORGANIZER(S): Sven Kesselring, Nuertingen-Geislingen University; Malene Freudendal-Pedersen; Monika Buscher, Lancaster University  
 CHAIR(S): Malene Freudendal-Pedersen  
 10:00 Katrina Petersen\*, Lancaster University; Megan Finn, Ph.D., University of Washington, *The Normal Map: the Question of Baselines in Emergency Data Assemblages.*  
 10:20 Sven Kesselring\*, Nuertingen-Geislingen University, *temp.*

## 4231. Emotions and Practicing Everyday Urban Spaces (2)

**Room:** Room 311, Hynes, Third Level (Paper Session)  
 ORGANIZER(S): Nicole McNamara, Macquarie University (MQU), Australia; AFM Ashraf Al Alam, Macquarie University  
 CHAIR(S): Nicole McNamara, Macquarie University (MQU), Australia  
 10:00 Anna Davidson\*, University of Oxford, *Howling with the Psycos: Los Angeles ridden otherwise.*  
 10:20 Melisa Carolina Arganaraz\*, University of Maryland - Baltimore County, *Abstract: Living Invisibly.*  
 10:40 Pavni Kohli\*, birkbeck university of london, *Beyond fear and violence: Middle Class Women and Public Space in Delhi, India.*  
 11:00 Umut Beshpinar, Assoc.Prof.Dr., Middle East Technical University; Nezihe Basak Ergin, Assist.Prof.Dr.\*, Giresun University, *Dangerous, risky or safe: Biking women's emotions in their everyday practices of space.*  
 Discussant(s): Laura Shillington, John Abbott College

## 4232. Theorizing the Megaregion

**Room:** Room 312, Hynes, Third Level (Paper Session)  
 ORGANIZER(S): Program Committee  
 CHAIR(S): Joel Outtes, UFRGS-Univ Fed Rio Gde Do Sul  
 10:00 Benoit Conti\*, Université Paris-Est; Florent Le Néchet, Université Paris-Est, *Evolution of the forms of polycentricity within French mega-city regions: more dispersed and/or more scattered?*  
 10:20 Chuanglin Fang\*, Institute of Geographic Sciences and Natural Resources Research, CAS; Danlin Yu, Department of Earth and Environmental Studies, Montclair State University, *Urban agglomeration, History, Definition and Current Views, a Review.*  
 10:40 Boris Gresillon\*, Aix-Marseille-University, *Integrated Metropolisation: Challenges and Opportunities of Multi-Scaled Urban Reconversion Processes for the "Métropole Aix-Marseille-Provence".*  
 11:00 Zhaoya Gong\*, University of Birmingham; Jean-Claude

Thill, University of North Carolina at Charlotte, *Spatial Networks and Multiscalar Urban Systems.*

11:20 Joel Outtes\*, UFRGS-Univ Fed Rio Gde Do Sul, *From Sideral Space to Critical Thinking: Reflexions on the Teaching of Urban Theory in the Schools of Architecture and Planning.*

## 4233. Project-Based Learning and Alternative Pedagogies: Part 1 Classroom models (Sponsored by International Network for Learning & Teaching Geography in Higher Education (INLT), Geography Education Specialty Group, Community College Affinity Group)

**Room:** Room 313, Hynes, Third Level (Panel Session)  
 ORGANIZER(S): Melissa Malouf Belz, Worcester Polytechnic Institute  
 CHAIR(S): Melissa Malouf Belz, Worcester Polytechnic Institute  
 Panelists: Anya Z. Butt, Central College; Patricia Stapleton, Worcester Polytechnic Institute; Jonathan M. Harbor, Purdue University; Forrest J. Bowlick, University of Massachusetts - Amherst; Thomas R. Craig, Oklahoma State University

## 4238. Digital \ Human \ Labour 2: The Digital Labour of Being Human

**Room:** Independence East, Sheraton, Second Floor (Paper Session)  
 ORGANIZER(S): James Thatcher, University of Washington - Tacoma; Gillian C. Rose, The Open University; Mark Graham, University of Oxford  
 CHAIR(S): Mark Graham, University of Oxford  
 10:00 James Thatcher\*, University of Washington - Tacoma, *Data derives: Confronting digital geographic information as spectacle.*  
 10:15 Samuel Miles\*, Queen Mary University of London, *Queerness in a digital age: the labour of hyperconnectivity.*  
 10:30 Roberta Hawkins\*, University of Guelph, *Digital geographies of development philanthropy: Constituting care and responsibility?*  
 10:45 Karen Gregory\*, University of Edinburgh, *Weird Solidarity: Situating and Mapping the Data Body.*  
 11:00 Gregory T. Donovan\*, Fordham University, *Settlement in the "Smart" City: Breaking Down Modes of Knowing, Navigating, and Belonging on Manhattan's West Side.*  
 Discussant(s): Gillian C. Rose, The Open University

## 4239. Task Force on Mental Health: Continuing the Conversation on Mental Health in the Academy (Sponsored by AAG Careers and Professional Development Theme)

**Room:** Independence West, Sheraton, Second Floor (Paper Session)  
 ORGANIZER(S): Deborah S. Metzel, University of Massachusetts - Boston  
 CHAIR(S): Deborah S. Metzel, University of Massachusetts - Boston  
 10:00 Rachel Herron\*, Brandon University; Jonathan Allan, PhD, Brandon University, *"Difficult conversations" about mental health on small liberal arts campuses.*  
 10:20 Linda Peake\*, York University; Kim England\*, University of Washington, *Engagement with Mental Health by Professional Academic Associations in Canada and the US.*  
 10:40 Christine Eriksen\*, University of Wollongong, *Research Ethics, Trauma and Self-Care: Reflections on Disaster Geographies.*

## 4240. Urban health and well-being (Sponsored by Uncertainty and Context in Geography and GIScience Featured Theme)

**Room:** Liberty B, Sheraton, Second Floor (Paper Session)  
 ORGANIZER(S): Uncertainty and Context Theme  
 CHAIR(S): Lu Wang, Ryerson University  
 10:00 Jing Ma\*, Beijing Normal University; Gordon Mitchell, University of Leeds; Guanpeng Dong, University of



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Liverpool, *Inequality in Beijing: A Spatial Multilevel Analysis of Perceived Environmental Hazard and Self-rated Health*.

- 10:20** Guibo Sun, Faculty of Architecture, The University of Hong Kong; Chris Webster, Faculty of Architecture, The University of Hong Kong; Xiaohu zhang, Faculty of Architecture, The University of Hong Kong, *Uncertainty in construction methods and spatial scales of measuring high density built environment for health studies*.
- 10:40** Jiaming He\*, School of Geography and Planning, Centre of Integrated Geographic Information Analysis, Sun Yat-sen University; Suhong Zhou, School of Geography and Planning, Centre of Integrated Geographic Information Analysis, Sun Yat-sen University, *The impact of residential mobility on physical and mental health of the elderly people in the transition period of China: A case study in Guangzhou*.
- 11:00** Lu Wang\*, Ryerson University; Anne Christian, Ryerson University, *Integration, healthcare and well-being: a case study of Sri Lankan immigrants in Toronto, Canada*.

## 4241. Data fusion and visualization (Sponsored by Uncertainty and Context in Geography and GIScience Featured Theme)

Room: Liberty C, Sheraton, Second Floor (Paper Session)

- ORGANIZER(S): Uncertainty and Context Theme  
CHAIR(S): Angela Cunningham, University of Colorado
- 10:00** Christopher Graziul\*, Brown University, *Religious ecology and the definition of local context*.
- 10:20** Jung-Hong Hong\*, Dept. of Geomatics, NCKU; Yu-Ting Su, Dept. of Geomatics, National Cheng-Kung University, *Enabling Uncertainty Consideration into GIS Operation Design and Outcome Visualization*.
- 10:40** Jan Brus\*, Palacky University, Olomouc; Vilem Pechanec, Palacky University, Olomouc; Petr Smykal, Palacky University, Olomouc; Martin Duchoslav, Palacky University, Olomouc; Miroslav Hybl, Crop Research Institute, Prague, *Uncertainty Visualization of Geographical Distribution of Legume Dormancy Level Based on Ecological Genomics*.
- 11:00** Melinda Shimizu, Ph.D., Western Oregon University; Elizabeth A. Wentz, Ph.D., Arizona State University, *Data fitness-for-use: an evaluation of accuracy, application, agreement, and aptness (AAAAQ) of four wetland datasets for use in watershed management decision-making*.
- 11:20** Angela R Cunningham\*, University of Colorado, *Here and 'Over There': visual and statistical analyses of Great War veterans' life trajectories through places of war and peace*.

## 4242. Climate Change and Education II (Sponsored by Human Dimensions of Global Change Specialty Group, Climate Specialty Group, Geography Education Specialty Group)

Room: Back Bay Ballroom A, Sheraton, Second Floor (Paper Session)

- ORGANIZER(S): RDK Herman, National Museum of the American Indian  
CHAIR(S): Jacob Warner, Louisiana State University
- 10:00** Chew-Hung Chang\*, Nanyang Technological University, Singapore; Andy Wi, Nanyang Technological University, Singapore, *Public Education for Climate Change - Why it matters for Global Understanding*.
- 10:20** Chew-Hung Chang, Nanyang Technological University; Dennis Liaow\*, Nanyang Technological University, *Advancing a Theoretical Learning Progression for Teaching Climate Change in School Geography*.
- 10:40** Jenniffer Marie Santos-Hernández, Ph.D.\*, University of Puerto Rico, *Capacity Building for Disaster Mitigation and Adaptation: An Integrated Interdisciplinary Approach to Climate Change Education in Puerto Rico*.

**11:00** Amy E. Lesen\*, Tulane University, *"I Don't Believe in Dispassion:" Community Engagement and Interdisciplinarity in Environmental Science and Urban Ecology*.

**11:20** Jacob P. Warner\*, Louisiana State University; Kristine L. DeLong, Louisiana State University; Micha Rahder, Louisiana State University; April Taylor, South Central Climate Science Center; Kimberley Merryman, South Central Climate Science Center; Roger Fragua, Pueblo of Jemez, Flower Hill Institute, *Climate Training with Pueblos and Tribes in New Mexico and Louisiana*.

## 4243. Exploring the Modular, Material and Performative Politics of Security (2) Socio-Material Performances and Subjects (Sponsored by Political Geography Specialty Group)

Room: Back Bay Ballroom B, Sheraton, Second Floor (Paper Session)

- ORGANIZER(S): Peter Forman, University of Durham; Nathaniel O'grady, Durham University  
CHAIR(S): Peter Forman, University of Durham
- 10:00** Elspeth Oppermann\*, Charles Darwin University, *Energetic entanglements with heat: the (in)security of workers' bodies in the practice of securing the grid*.
- 10:20** Andrew Dwyer\*, University of Oxford, *A More-than-Human Security: Performances of a Malware Politics*.
- 10:40** Rhys Machold\*, Danish Institute for International Studies (DIIS), *Relational materializations: waging 'success' through mobility*.
- 11:00** Patrick Weir\*, University of Amsterdam, *"Becoming Securitized? Assemblage theory and Re-Materializing the Copenhagen school of security studies."*.
- 11:20** Patricia Noxolo, PhD\*, School of Geography, Earth and Environmental Sciences, *Reading Erna Brodber for gendered in/securities*.

## 4244. Governing the Future City: Thinking comparatively about states, developers and communities in Large Scale Urban Developments 2 - Developers (Sponsored by China Specialty Group, Urban Geography Specialty Group, Africa Specialty Group)

Room: Constitution A, Sheraton, Second Floor (Paper Session)

- ORGANIZER(S): Jennifer Robinson, University College London  
CHAIR(S): Gilles Pinson  
Introducer: Jennifer Robinson
- 10:05** Alison Todes\*, University of the Witwatersrand, *Large Urban Projects, Developers and Johannesburg's Corridors of Freedom*.
- 10:20** Jennifer Robinson\*, University College London; Fulong Wu, University College London; Katia Attuyer, University College London, *Financialisation, Globalisation and London's model of development: The role of the state?*.
- 10:35** Zheng Wang\*, University College London; Fulong Wu, Bartlett School of Planning, University College London, *The multiple roles of the state in mega urban developments in China - Reflections from Shanghai Lingang*.
- 10:50** Allan Douglas Cochrane\*, Open University, *Visions of the future city: thinking in and beyond globalisation*.
- 11:05** Frances N Brill\*, University College London, *The Developer in Question*.
- Discussant(s): Gavin Shatkin, Northeastern University

## 4245. Politics and Planning in the Middle East

Room: Constitution B, Sheraton, Second Floor (Paper Session)

- ORGANIZER(S): Program Committee  
CHAIR(S): Naama Meishar
- 10:00** Hannah Wang\*, George Washington University, *Instability in the Middle East: The Effect of Arbitrary Borders*.
- 10:20** Ignacio Rullansky\*, University of Buenos Aires/National Scientific and Technical Research Council (Argentina) - The New School University, NYC, *Art of government and urban planning in East Jerusalem: relations*

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*between local initiatives and the municipal authorities during Nir Barkat's first mandate..*

**10:40** Shelly Cohen\*, Tel Aviv University, *Architecture of Care.*

**11:00** Naama Meishar\*, Technion - Israel Institute of Technology, *The Environmental Gap: Socionatural Transformation and Gentrification on Jaffa's Shore.*

## 4248. Unsettling Chicana and Latina Geographies

*Room:* Beacon D, Sheraton, Third Floor (Panel Session)

ORGANIZER(S): Madelaine Cahuas, University of Toronto; Cristina Faiver-Serna

CHAIR(S): Madelaine Cahuas, University of Toronto

Panelists: Laura Pulido, University of Oregon - Eugene, OR; Genevieve Carpio, UCLA; Lorena Muñoz, University of Minnesota; Stevie Raymond Ruiz, California State University - Northridge; Juan Herrera, Oregon State University

## 4249. Critical urban theory in the 'urban age': Voices from another planet V (Sponsored by Geographic Perspectives on Women Specialty Group, Urban Geography Specialty Group, Sexuality and Space Specialty Group)

*Room:* Beacon E, Sheraton, Third Floor (Panel Session)

ORGANIZER(S): Natalie Oswin, McGill University; Geraldine J. Pratt, University of British Columbia

CHAIR(S): Natalie Oswin, McGill University

Introducer: Sharad Chari

Panelists: Michelle D. Daigle, University of British Columbia; Shiri Pasternak, Columbia University; Juan Miguel Kanai, University of Miami; Brian Jordan Jefferson, University of Illinois Urbana Champaign; Jessica Lehman, University of Minnesota - Minneapolis; Tariq Jazeel, UCL

## 4250. Agriculture under Climate Change (Sponsored by Applied Geography Specialty Group, Climate Specialty Group, Geographies of Food and Agriculture Specialty Group)

*Room:* Beacon F, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Toni Klemm, University of Oklahoma

CHAIR(S): Toni Klemm, University of Oklahoma

**10:00** Johanna Wandel\*, University of Waterloo, *Re-establishment of traditional rainwater harvesting in South India for agricultural and livelihood security under climate change.*

**10:20** Jimmy Adegoke\*, University of Missouri-Kansas City; Chidi Ibe, Institute for Natural Resources, Environment and Sustainability (INRES) University of Port Harcourt, Port Harcourt, Nigeria; Adebisi Araba, International Center for Tropical Agriculture (CIAT), *Building Resilience in Nigeria's Agriculture Value Chains through Climate Smart Policies, Programs and Actions.*

**10:40** Dan Wanyama\*, University of North Alabama, *A Spatial Analysis Of Climate Change Effects On Maize Productivity In Kenya.*

**11:00** Lisa Green\*, Utah State University; Claudia Radel, PhD, Utah State University; Birgit Schmook, PhD, El Colegio de la Frontera Sur, *Differentiation in Experiences and Perceptions of Climate Change Vulnerability in Southeast Mexico.*

**11:20** Yimin Zhou, College of urban and environmental science, Peking University; Ang Zhang\*, College of urban and environmental science, Peking University; Xinyi Zhao, College of urban and environmental science, Peking University, *Analysis of vulnerable characteristics in Chinese northern farming-pastoral region based on Coordinated Regional Downscaling Experiment.*

## 4253. Gentrification in the United States

*Room:* Dalton A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Jennifer Rogalsky, SUNY - Geneseo

**10:00** Heather Squire\*, Temple University; Heather Squire, Temple University, *False Choice Urbanism and Discourses of Solidarity.*

**10:20** Christiana Francis Saldana\*, California State University - Los Angeles, *Loftification: The Refurbished Gentrification Dynamic.*

**10:40** Daniel Yonto\*, University of North Carolina at Charlotte; Jean-Claude Thill, PhD, University of North Carolina at Charlotte, *What is the complexion of contemporary gentrification? A case study of Charlotte, NC.*

**11:00** Jennifer Rogalsky, PhD\*, SUNY Geneseo, *Is There Any Way Not To Be A Gentrifier?: Improvement without Displacement in Red Hook, Brooklyn.*

## 4255. Governing and planning infrastructure funding and financing in global cities - session 2 (Sponsored by Economic Geography Specialty Group)

*Room:* Hampton A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Peter O'Brien

CHAIR(S): Peter O'Brien

**10:00** Graham Simon Thrower, Newcastle University, *Financialized infrastructure: rendering the political, contractual.*

**10:20** Dimitar Anguelov\*, UCLA, *Financial architectures: Financing and financializing infrastructure and the globalizing city of Jakarta..*

**10:40** Mike Raco\*, University College London, *'Profiting from failure?': Investor narratives and imaginations of London's changing property markets.*

**11:00** Andre Sorensen\*, University of Toronto, *Institutions in Urban Space: The Property/Infrastructure/Governance Triangle.*

## 4256. Environmental protection in China: Challenges and opportunities-2 (Sponsored by China Specialty Group)

*Room:* Hampton B, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Xiaobo Su, University of Oregon

CHAIR(S): Xiaobo Su, University of Oregon

**10:00** Daniel E. Lawson, PhD\*, Geography Department, Dartmouth College, Hanover, NH; Brian T Tracy, RSGIS Center, Cold Regions Research and Engineering Laboratory, Hanover, NH; Jonathan W. Chipman, Geography Department, Dartmouth College, Hanover, NH; Xun Shi, PhD, Geography Department, Dartmouth College, Hanover, NH; Yaning Chen, PhD, Xinjiang Institute of Ecology and Geography, Chinese Academy of Sciences; Julia Liu, Dartmouth College, Hanover, NH, *Changes in Glacial Extent in the Central Tien Shan Mountains, Upper Kaidu Watershed, Xinjiang Province, Northwest China.*

**10:20** Jing Li\*, School of Geoscience and Surveying China University of Mining & Technology-Beijing, *Land Reclamation and Ecological Restoration of Coal-mine Area in China.*

**10:40** Haimeng Liu\*, Institute of Geographic Sciences and Natural Resources Research, CAS; Chuanglin Fang, Institute of Geographic Sciences and Natural Resources Research, CAS; Xiaoling Zhang, Department of Public Policy, City University of Hong Kong, *How do natural and anthropogenic factors affect air quality in Chinese cities? An empirical study using Spatial Durbin Model.*

## 4257. Energy Cultures, Communities and Consumption: Exploring the social, political and cultural dynamics of energy system change II (Sponsored by Energy and Environment Specialty Group)

*Room:* Gardner A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Frances Fahy, National University of Ireland, Galway; Jennie C. Stephens, Northeastern University

CHAIR(S): Jennie C. Stephens, Northeastern University

**10:00** Frances Fahy\*, National University of Ireland, Galway; Henrike Rau, LMU, Munich, *ENERGISE: Developing*

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*an innovative theoretical framework fusing social practice and energy cultures approaches.*

- 10:20** Bronwyn Lazowski\*, University of Waterloo; Paul Parker, Ph.D., University of Waterloo, *Assessing the influence of smart grid interventions on residential energy culture.*

- 10:40** Aaron Russell\*, University of New Mexico, *Social Perceptions of Solar Power: Using Q-Methodology to Explore the Evolution of Solar Energy Conversations in the San Luis Valley of Southern Colorado.*

- 11:00** Autumn Thoyre\*, San Francisco State University, *"Don't wait for your regular bulbs to burn out": Toward a theory of green obsolescence.*

Discussant(s): Jennie C. Stephens, Northeastern University

**4258. Best Practices in Project Based Learning and Authentic Experiences for Open Geospatial Education in Secondary Settings**

*Room:* Gardner B, Sheraton, Third Floor (Panel Session)

ORGANIZER(S): Patricia A. Solis, Texas Tech University - Lubbock, TX; Niem Huynh, American Association of Geographers

CHAIR(S): Niem Huynh, American Association of Geographers

**4259. Economic Geography in Emerging and Developing Economies II: Diversification, resilience, institution & growth (Sponsored by Economic Geography Specialty Group)**

*Room:* Fairfax A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Godfrey Yeung, National University of Singapore; Canfei He, Peking University; Ron Boschma, Utrecht University

CHAIR(S): Canfei He, Peking University

- 10:00** Jiemin Liu\*, Peking University; Canfei He, Peking University, *Market Potential, Market Segmentation and Evolution of Export Products.*

- 10:20** Wei Zhang\*, Institute of Geographic Sciences and Natural Resources Research, CAS, *The regional branching in Chinese contexts: the rise of the biotechnology industry in Wuhan Optical Valley.*

- 10:40** Xiaohui Hu\*, Zhejiang University of Finance and Economics; Chun Yang, Hong Kong Baptist University, *Uneven economic resilience and institutional change: a comparison of two resource-depleted cities in China.*

- 11:00** Pan Zhu\*, East China Normal University, *Cultural diversity and new firm formation ??Evidence from China.*

- 11:20** Tianlan Fu\*, Hong Kong Baptist University; Chun Yang, Hong Kong Baptist University, *Market Expansion and Cluster Evolution: Changing Trajectories of Domestic Market-oriented Furniture Cluster in Shunde, China.*

**4260. Speed-Dating with an NSF Program Officer - 3 (Sponsored by AAG Careers and Professional Development Theme)**

*Room:* Fairfax B, Sheraton, Third Floor (Panel Session)

ORGANIZER(S): Antoinette WinklerPrins, National Science Foundation

CHAIR(S): Thomas J. Baerwald, National Science Foundation

Introducer: Thomas J. Baerwald  
Discussant(s): Antoinette WinklerPrins, National Science Foundation; Cheryl Eavey, National Science Foundation; Sunil Narumalani, National Science Foundation; Holly M. Hapke, National Science Foundation

**4261. Financialization as a State Project 2: Collective Consumption (Sponsored by Urban Geography Specialty Group, Economic Geography Specialty Group)**

*Room:* Jefferson, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Caroline Sage Ponder, University of British Columbia; Mikael Omstedt, University of British Columbia

CHAIR(S): Mikael Omstedt, University of British Columbia

- 10:00** Mark Kear\*, University of Arizona - Geography & Development, *The Psychological State and the Assembly of Financial Subjects.*

- 10:20** Joseph Beswick\*, School of Geography, *Demolishing the Present to Sell Off the Future? The Financialisation of Public Housing in London.*

- 10:40** Dinesh Paudel\*, Appalachian State University; Katharine Rankin\*, University of Toronto, *Lucrative Disaster: Financialization and the Post-earthquake Reconstruction in Nepal.*

- 11:00** Amy Horton\*, Queen Mary University of London, *Financialization and the crisis of care.*

Discussant(s): Manuel B. Aalbers, KULeuven

**4262. Population change in urban contexts (Sponsored by Population Specialty Group)**

*Room:* Kent, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Christopher S. Fowler, Pennsylvania State University

CHAIR(S): Xinran Luo

- 10:00** Ali S. Alghamdi\*, The University of Texas at Dallas; King Abdul Azize University; Anthony R Cummings, The University of Texas at Dallas, *Measuring Urban Change in Riyadh City Between 2004-2014.*

- 10:20** Xiaoyan Mu\*, The University of Hong Kong; Anthony GO Yeh, The University of Hong Kong, *Distribution and Migration of the Ethnic Minority Population in Mainland China.*

- 10:40** Xinran Luo\*, *A Study on Population Function Zoning in Beijing-Tianjin-Hebei under Multi-objective Constraint.*

**4263. Geographies of "disruption" (Sponsored by Urban Geography Specialty Group, Economic Geography Specialty Group)**

*Room:* Commonwealth, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Kathryn Wells, George Washington University

CHAIR(S): Declan Cullen, George Washington University

- 10:00** Filip Stabrowski\*, LaGuardia Community College, *How to Be a Good Airbnb Host (While Saving the World).*

- 10:20** Kathleen Dunn, PhD\*, Loyola University - Chicago, *Grounding the Gig Economy: A Comparative View of Gentrification by Innovation in Los Angeles, Buenos Aires and Paris.*

- 10:40** Kafui Attoh\*, CUNY Murphy Institute, *Two Concepts of Disruption: Uber and Safe Track.*

- 11:00** Iain L. Marjoribanks\*, Undergraduate of Geography and Urban Studies at the University of British Columbia., *Silicon Valley: Capital of the 21st Century.*

- 11:20** Daniel Joseph\*, Ryerson University, *Title: From Shopping Malls to e-commerce and Digital Distribution: Spatial Fixes and Monopolies.*

**4264. Into the Void II: Chimerical (Sponsored by Cultural Geography Specialty Group)**

*Room:* Boylston, Marriott, First Floor (Paper Session)

ORGANIZER(S): Paul T. Kingsbury, Simon Fraser University; Anna J Secor, University of Kentucky

CHAIR(S): Paul T. Kingsbury, Simon Fraser University

- Introducer: Anna J Secor  
**10:05** Mikko Joronen\*, Space and Political Agency Research Group (SPARG), University of Tampere, *Sites of finitude and plenitude: mystery of being, anxiety of nothing and the force of the ungovernable..*

- 10:20** Susan Ruddick\*, University of Toronto; Susan Ruddick, Professor, Geography, University of Toronto, *EXTANT / EXTINCTION.*

- 10:35** Mitch Rose\*, Aberystwyth University, *The dwelling that never arrives.*

- 10:50** Paul Harrison\*, Durham University, *The slow decline and the long cut: visions for the fading world..*

- 11:05** Curtis Pomilia\*, University of Kentucky, *A black*



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*reconstruction of Marx: eternal recurrence in the irrational interval.*

Discussant(s): Paul T. Kingsbury, Simon Fraser University

## 4265. Media and Communication Geography Keynote Address: Dr. Tom Conley "For a Geography of Doubt" (Sponsored by Communication Geography Specialty Group)

Room: Tremont, Marriott, First Floor (Panel Session)

ORGANIZER(S): Emily Fekete, Oklahoma State University

CHAIR(S): Emily Fekete, Oklahoma State University

Introducer: Emily Fekete

Panelists: Tom Conley, Harvard University

## 4266. The Wasteland II: Wasteland Imaginaries (Sponsored by Political Geography Specialty Group, Cyberinfrastructure Specialty Group, Communication Geography Specialty Group)

Room: Columbus 1, Marriott, First Floor (Paper Session)

ORGANIZER(S): Heather Agnew, UCLA; James Walker, University of California - Los Angeles; Robert Allen Kopack, University of Toronto

CHAIR(S): Heather Agnew, UCLA

10:00 Maxwell Woods\*, University of Wisconsin - Madison, *Nature as Cemetery: The Geography of the Wasteland in Ulysses.*

10:20 Robert Briwa\*, Montana State University, *Exploring the Enduring Images of Apocalypse through Literary Geography.*

10:40 James Walker\*, University of California - Los Angeles, *Surviving in the "State of Exception": The socio-political resonance of the zombie narrative in popular fiction..*

11:00 Chelsea R Canon, M.S.\*, University of Nevada; Jon Lawhead, Ph.D., The Davidson Academy at the University of Nevada, Reno; Anna Klimaszewski-Patterson, Ph.D., University of Nevada, Reno, *Zombies: A Pop Culture Stand-In for Climate Change & Creeping Hazards in Spatial Context.*

## 4267. Geographies of Youth Political Engagement (Sponsored by Political Geography Specialty Group, Geographic Perspectives on Women Specialty Group, Cultural Geography Specialty Group)

Room: Columbus 2, Marriott, First Floor (Paper Session)

ORGANIZER(S): Sarah Heck, Temple University; Melissa R. Gilbert, Temple University

CHAIR(S): Sarah Heck, Temple University

10:00 Brandon Marc Finn\*, Harvard University, *Quietly Chasing Kigali: Young Men and the Intolerance of Informality in Rwanda's Capital City.*

10:20 Maria Prats Ferret\*, Universitat Autònoma de Barcelona; Margot Mecca, Universitat Autònoma de Barcelona, *Everyday life and youth spatial practices: confronting adult and teenagers views.*

10:40 Fred M. Shelley\*, University of Oklahoma, *Millennial Votes for Bernie Sanders and Long-Run Political Engagement in the United States.*

Discussant(s): Melissa R. Gilbert, Temple University

## 4268. Flood Landscapes (Sponsored by Geomorphology Specialty Group, Water Resources Specialty Group)

Room: St. Botolph, Marriott, Second Floor (Paper Session)

ORGANIZER(S): RDK Herman, National Museum of the American Indian

CHAIR(S): Kehan Yang, Institute of remote sensing and digital earth, CAS

10:00 Yan-Ting Liao\*, University of Texas At Dallas, *Testing the Data Integration Framework to Increase Quantity and Quality of Observations for Calibration and Validation.*

10:20 Greta Wells\*, University of Texas - Austin; Sheryl Luzzadder-Beach, University of Texas - Austin, *Using Water Geochemistry to Forecast Volcanically-*

*Triggered Glacial Lake Outburst Floods in Iceland.*

10:40 Evan Dethier\*, Dartmouth College, *The legacy of an extreme flood: landslides extend geomorphic impacts to the present.*

11:00 Kehan Yang\*, Institute of Remote Sensing and Digital Earth, Chinese Academy of Science; Fangfang Yao, Department of Geography, Kansas State University; Di Dong, Institute of Remote Sensing and Digital Earth, Chinese Academy of Science; Chao Wang, Department of Environmental Sciences, University of Puerto Rico Rico Rio Piedras Campus; Jiancheng Luo, Institute of Remote Sensing and Digital Earth, Chinese Academy of Science; Zhanfeng Shen, Institute of remote sensing and digital earth, Chinese Academy of Science; Jida Wang, Department of Geography, Kansas State University, *The mechanisms of the alpine lake outburst flood and its impacts on downstream areas - a case study on Zhuonai lake, Tibetan Plateau.*

## 4269. Symposium on Human Dynamics in Smart and Connected Communities: Agents - the 'atomic unit' of social systems? 2

Room: Regis, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Andrew Crooks, George Mason University; Alison Heppenstall; Nick Malleon, University of Leeds

CHAIR(S): Alison Heppenstall

10:00 Koen Haziel Van Dam\*, Imperial College London; Chris M. Mazur, Imperial College London, *Using household questionnaires to create realistic agents for energy system analysis.*

10:20 Dawn C. Parker\*, University of Waterloo; Xiongbing Jin, University of Waterloo; Babin Robert, Municipal Property Assessment Corporation; Xinyue Pi, University of Waterloo; Yu Huang, University of Waterloo; Pedram Fard, University of Waterloo; Jeff Casello, University of Waterloo, *Modelling atomic housing market agents: Conceptual and data challenges.*

10:40 Stephen Law\*, university college london; Yao Shen, University College London, *House Price Spatial Diffusions on Street Networks.*

11:00 Andrew Crooks\*, George Mason University; William G Kennedy, George Mason University; Annetta Burger, George Mason University; Talha Oz, George Mason University; Alison Heppenstall, University of Leeds., *Megacities Through The Lens of Computational Social Science.*

11:20 Alison Heppenstall\*, Andrew Crooks, GMU; Nick Malleon, University of Leeds, *The interplay of agent-based modelling and theory: Current practices and future trends.*

## 4270. Emerging Themes in Heath and Environmental Perception 2 (Sponsored by Environmental Perception and Behavioral Geography Specialty Group)

Room: Northeastern, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Bethany Cutts, North Carolina State University

CHAIR(S): Trista Michelle Brophy Duron, Urban Oasis

Hydroponic Farm

10:00 Yunwoo Nam\*, University Of Nebraska - Lincoln, *Leveraging GIS technology to build healthy community.*

10:20 Carolina Alejandra Rojas\*, Universidad De Concepción; Antonio Paez, MC Master University; Olga Barbosa, Universidad Austral; Juan Antonio Carrasco, Universidad de Concepción, *Accessibility to Urban Green Open Spaces in Chilean Cities.*

10:40 Paul L. Delamater\*, George Mason University; Timothy F. Leslie, George Mason University; Y. Tony Yang, George Mason University, *Is vaccine-related behavior contagious? Examining non-medical exemptions from vaccination in California from 2000 to 2015.*



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**11:00** Eric Stephen West, Ph.D.\*, Southern Connecticut State University, *Relationships between messages about health, the body, and neighborhood.*

**11:20** Trista Michelle Brophy\*, University of South Florida; Kamal Alsharif, Ph.D., University of South Florida, *Environmental and Community Health in South San Diego County: A Behavior Analysis of Recreational Ocean Users Along Imperial Beach, California.*

**4271. Landscapes of Humanitarian Expertise: The Built Environment Professionalism of Aid and Development**

*Room:* Brandeis, Marriott, Third Floor (Paper Session)  
 ORGANIZER(S): Shawhin Roudbari, University of Colorado - Boulder, CO; Sharone Tomer, Virginia Tech  
 CHAIR(S): Sharone Tomer, Virginia Tech  
 Introducer: Sharone Tomer  
 Introducer: Shawhin Roudbari  
**10:15** Catherine P. Bishop, Ph.D.\*, University of New England, *Technology Diffusion in the African Oil Palm Belt: A Market-based Approach to Engineering for Development.*  
**10:35** Giuseppina Forte\*, University of California, Berkeley, *Building Humanitarian "Expertise" in Ouagadougou.*  
 Discussant(s): Sharone Tomer, Virginia Tech

**4272. Participation in Marine Ecosystem-Based Management 1**

*Room:* MIT, Marriott, Third Floor (Paper Session)  
 ORGANIZER(S): Aria Ritz Finkelstein, MIT; Wesley Flannery  
 CHAIR(S): Aria Ritz Finkelstein, MIT  
**10:00** Wesley Flannery\*, Queen's University Belfast, UK, *A Foucauldian Discourse Analysis of Marine Spatial Planning in the UK.*  
**10:20** Kevin St. Martin\*, Rutgers University, *Challenging Stakeholders and Constituting Community within the Emerging World of Marine Spatial Planning.*  
**10:40** Catherine King\*, The Graduate Center, City University of New York, *The Emergence of Ecosystems-based Fisheries Management in New England: Something New or Business as Usual?.*  
**11:00** Aria Ritz Finkelstein\*, MIT, *Managing accumulation: Case studies in harbor-making.*  
**11:20** Brice Trouillet\*, University of Nantes (FR), *Mapping fisheries in the context of Marine Spatial Planning: from a technical concern to a critical approach of participation?.*

**4273. Modeling Human-Environment Interactions: Linking Remote Sensing and the Social Sciences (Sponsored by Geographic Information Science and Systems Specialty Group, Remote Sensing Specialty Group, Spatial Analysis and Modeling Specialty Group)**

*Room:* Boston University, Marriott, Third Floor (Paper Session)  
 ORGANIZER(S): Emily Burchfield, Vanderbilt University  
 CHAIR(S): Emily Burchfield, Vanderbilt University  
**10:00** Amelia C Sosnowski, MS\*, University of Texas at Austin; Eman Ghoneim, PhD, University of North Carolina - Wilmington; Elizabeth Hines, PhD, University of North Carolina - Wilmington; James Blum, PhD, University of North Carolina - Wilmington; Stuart Borrett, PhD, University of North Carolina - Wilmington, *Violent Conflict in Context: Deconstructing Spatial and Temporal Patterns in South Sudan.*  
**10:20** Emily Burchfield\*, Vanderbilt University; Kate Nelson, Vanderbilt University, *Bayesian Spatiotemporal Modeling of Water Access and Agricultural Response to Drought.*  
**10:40** Rebecca L. Van Stokkum\*, University of California - Davis; Prashant Had, PhD, University of California, Davis, *An Analysis of Environmental Health in Medium-sized California Cities.*

**4274. Symposium on Human Dynamics in Smart and Connected Communities: Big geodata in human mobility modeling (2)**

*Room:* Simmons, Marriott, Third Floor (Paper Session)  
 ORGANIZER(S): Yihong Yuan; Edwin Chow, Texas State University - San Marcos  
 CHAIR(S): Edwin Chow, Texas State University - San Marcos  
**10:00** Enze Zhang\*, University At Buffalo, *Spatial-temporal pattern analysis of hot topics on social media in China.*  
**10:20** Yongyao Jiang, George Mason university; Chaowei Yang, George Mason university; Yun Li, George Mason university; Edward Armstrong, JPL, NASA; Thomas Huang, JPL, NASA; David Moroni, JPL, NASA; Lewis McGibbney, JPL, NASA; Chris Finch, JPL, NASA, *Towards Intelligent Geospatial Data Discovery: A Machine Learning based Semantic Ranking Framework.*  
**10:40** Zhenzhen Wang\*, Chinese University of Hong Kong; Ying Sylvia He, Chinese University of Hong Kong; Leung Yee, Chinese University of Hong Kong, *Applying mobile phone data to travel behaviour research: A literature review.*  
**11:00** Edwin Chow\*, Texas State University, *A Crowdsourcing Approach to Estimate a Mobile Population.*

**4275. Symposium on Human Dynamics in Smart and Connected Communities: Spatial-Social Networks in GIS 7 (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group, Spatial Analysis and Modeling Specialty Group)**

*Room:* Suffolk, Marriott, Third Floor (Paper Session)  
 ORGANIZER(S): Xinyue Ye, Kent State University; Xingjian Liu, University of Hong Kong; Clio Andris  
 CHAIR(S): Xingjian Liu, University of Hong Kong  
**10:00** Weichuan Dong\*, Kent State University; Xinyue Ye, Kent State University - Kent, OH, *Spatial Social Network Community Detection.*  
**10:20** Qingsong Liu\*, Kent State University; Zheyang Wang, Kent State University; Xinyue Ye, Kent State University, *An Exploratory Study of Urban Human Mobility.*  
**10:40** Lanxue Dang\*, College of Environment and Planning, Henan University; Zhuo Chen, Department of Geography, Kent State University; Jay Lee, Department of Geography, Kent State University; Xinyue Ye, Department of Geography, Kent State University, *An agent-based simulator for information diffusion over social network.*  
**11:00** Xingjian Liu\*, University of Hong Kong, *Mind the Gap: Broken Intercity Trunk Roads in China.*  
**11:20** Qin Tian\*, Wuhan University; Qingyun Du, Wuhan University; Xinyue Ye, Kent State University, *Semantic-Spatial Mixed Hierarchical Clustering Method for Check in Data Analysis.*

**4276. Rural Geography Awards 2: "John Fraser Hart Award" panel session honoring Darrell Napton (Sponsored by Rural Geography Specialty Group, Geographies of Food and Agriculture Specialty Group)**

*Room:* Wellesley, Marriott, Third Floor (Panel Session)  
 ORGANIZER(S): Christopher R. Laingen, Eastern Illinois University  
 CHAIR(S): Christopher R. Laingen, Eastern Illinois University  
 Panelists: Christopher R. Laingen, Eastern Illinois University; Roger Auch, United States Geological Survey; Phil Gersmehl, retired, pro bono at Michigan Geographic Alliance; Jordan Graesser, @McGill University - Montreal, QC; Suzanne Cotillon, USGS EROS Data Center; Darrell E. Napton, South Dakota State University

**4277. Capstone Projects for Masters Programs in Geographic Information Science and Technology (Sponsored by Geographic Information Science and Systems Specialty**

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- Group, Geography Education Specialty Group)**  
**Room:** *Harvard, Marriott, Third Floor* (Interactive Short Paper Session)  
 ORGANIZER(S): Robert Vos, University of Southern California  
 CHAIR(S): Robert Vos, University of Southern California  
**10:00** Kendrick Watson\*, USC Spatial Sciences Institute, *Laying the Foundation: Academic and Administrative Steps to Ensure a Successful Thesis Experience.*  
**10:10** Susan H. Kamei\*, USC Spatial Sciences Institute, *Good thinking and good writing: Ensuring both in master's theses and capstones.*  
**10:20** Karen K Kemp, PhD\*, University of Southern California, *Supporting thesis students across the finish line.*  
**10:30** Steven M. Manson\*, University Of Minnesota; Susanna McMaster, University of Minnesota, *MGIS Capstone: transitioning from a thesis to an experiential portfolio.*  
**10:40** Robert O. Vos, Ph.D., GISP\*, University of Southern California, *Enabling Thesis Success Through a Thesis Proposal Course.*  
**10:50** Eric Money\*, North Carolina State University, *Implementing Professional Service-Learning Capstone Experiences in an Online/Hybrid Graduate GIS Program.*  
**11:00** Patricia L. Drews\*, Northwest Missouri State University, *Course-Based Capstone Project for an Online GIScience Master's Degree.*  
**11:10** Jie Tian\*, Clark University, *Practice on managing a multi-track Master's program in GIS for development and Environment.*  
**11:20** Cordula A Robinson, PhD\*, Northeastern University, *Geographic Information Technology Masters Capstone Project: Northeastern University.*  
**11:30** Justine Blanford\*, The Pennsylvania State University, *Working through the Capstone Process in an on-line environment..*

**4279. Land Change 6: Driving Forces (Sponsored by Cultural and Political Ecology Specialty Group, Remote Sensing Specialty Group, Human Dimensions of Global Change Specialty Group)**

- Room:** *Arlington, Marriott, Third Floor* (Paper Session)  
 ORGANIZER(S): Richard J. Aspinall  
 CHAIR(S): Lingtao Xie, SUNY - Buffalo  
**10:00** Nadeem Hashem, Dr\*, Qatar University; Perumal Balakrishnan, Dr, Qatar University, *Land-Use and Land-Cover Change in the East Coast of Qatar: Analysis and Trend.*  
**10:20** Talal Yousuf Al-Awadhi\*, Sultan Qaboos Univesity, *The Impacts of Globalization in Land use change: Case from Sohar, Oman.*  
**10:40** Lei Kang\*, Li Ma; Yi Liu, *Study on the driving forces and mode of land use change in the urban agglomeration area ?case study in the Beijing-Tianjin-Heibei region.*  
**11:00** Lingtao Xie\*, SUNY - Buffalo; Yu Wang\*, SUNY - Buffalo, *Assessment on Buffalo's Land Cover Change and Its Driving Forces Using Multi-Temporal Remote Sensing Data.*

**4280. Uneven Development in Eurasia (Sponsored by Russian, Eurasian Specialty Group, Development Geographies Specialty Group, Economic Geography Specialty Group)**

- Room:** *Berkeley, Marriott, Third Floor* (Paper Session)  
 ORGANIZER(S): Jeremy Tasch, Towson University  
 CHAIR(S): Jeremy Tasch, Towson University  
**10:00** Ilсур Suleymanov\*, Cardiff University, *Economic Shocks and Economic Resilience in Russian Monofunctional Towns.*  
**10:20** Julia Loginova\*, the University of Melbourne, *(In) visibility of failing oil infrastructure and neg(oti)ation of oil extraction impacts in the Komi Republic, Russia.*  
**10:40** Inna Vladimirovna Semenova, Dr.\*, Saint-Petersburg State University, *Innovation development of Russian regions.*  
**11:00** Kira Morachevskia\*, Saint-Petersburg State University,

*Agriculture and food production in the Russian-Belarusian borderland - in response to current economic and political challenges.*

Discussant(s): Larry Kleitch, Georgia State University - Atlanta, GA

**4281. Framing urban sustainability: Smart, efficient, green, or just 1 (Sponsored by Human Dimensions of Global Change Specialty Group, Urban Geography Specialty Group, Energy and Environment Specialty Group)**

- Room:** *Clarendon, Marriott, Third Floor* (Paper Session)  
 ORGANIZER(S): Heather Sander, University of Iowa; Peleg Kremer, Villanova University  
 CHAIR(S): Heather Sander, University of Iowa  
**10:00** Peleg Kremer, PhD\*, Villanova University; Dagmar Haase, PhD, Humboldt University, Berlin; Annegret Haase, PhD, Helmholtz-Zentrum für Umweltforschung GmbH - UFZ, *Lessons learned from an Urban Sustainability Futures discussion at the EcoSmmi 2016.*  
**10:20** Angel Hsu, Ph.D., Yale School of Forestry and Environmental Studies; Yale-National University of Singapore; Ryan Thomas, MCP\*, Yale University School of Forestry and Environmental Studies, *Piloting an index linking urban environmental performance and social inclusion.*  
**10:40** Olubunmi Alugbin\*, Lagos, Nigeria, *Approaches And Challenges To Gender Inequalities And Urban Sustainability In Nigeria.*  
 Discussant(s): Heather Sander, University of Iowa

**4282. Spatializing Race I: Understanding the resilience of 'race' and racial imaginaries across space and time**

- Room:** *Dartmouth, Marriott, Third Floor* (Panel Session)  
 ORGANIZER(S): Beverley Mullings, Queen's University; Patricia Noxolo, School of Geography, Earth and Environmental Sciences  
 CHAIR(S): Rupal Oza, CUNY - Graduate Center  
 Introducer: Rupal Oza  
 Panelists: Patricia Daley; Laura-Anne Minkoff-Zern, Syracuse University, Department of Public Health, Food Studies, and Nutrition; Anoop Nayak; Sharlene L. Mollett, University of Toronto; Azeezat Johnson, University of Sheffield; Sherene Razack, UCLA

**4283. Geographies of Slow Violence 2: Health/Care (Sponsored by Geographic Perspectives on Women Specialty Group, Ethics, Justice, and Human Rights Specialty Group, Health and Medical Geography Specialty Group)**

- Room:** *Exeter, Marriott, Third Floor* (Paper Session)  
 ORGANIZER(S): Caitlin Cahill, Pratt Institute; Rachel Pain, University Of Durham  
 CHAIR(S): Rachel Pain, University Of Durham  
**10:00** Elizabeth Olson\*, UNC-Chapel Hill, *From slow violence to crisis in caregiving, or 'pulling everything to rags'.*  
**10:20** Rachel Colls\*, Durham University; Bethan Evans, Dr, University of Liverpool, *A Slow Death? : Fat discrimination and the violence of 'decline'.*  
**10:40** Lydia P. Wood, PhD Candidate\*, San Diego State University, *Slow Violence and Health: Understanding the Geographies of Indigenous Youth Health in San Diego.*  
**11:00** Naya Armendarez Jones, PhD\*, Food for Black Thought, *Dying to Eat: An Homage to Black Life.*  
**11:20** Paul S. B. Jackson\*, University of Delaware, *Slow Violence and the "Other" Global Health.*

**4284. Geographies of Dissociation II (Sponsored by Economic Geography Specialty Group)**

- Room:** *Fairfield, Marriott, Third Floor* (Paper Session)  
 ORGANIZER(S): Martin H. Hess, University of Manchester; Oliver Ibert, Leibniz-Institute for Regional

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Development and Structural Planning Erkner  
CHAIR(S): Oliver Ibert, Leibniz-Institute for Regional  
Development and Structural Planning Erkner

**10:00** Jana Maria Kleibert\*, Leibniz Institute for Research  
on Society and Space, *Creating, constructing and  
contesting value in global production networks: the  
case of fur-fashion.*

**10:20** Anke Hagemann\*, Technische Universität Berlin, *Spatial  
re-association: Researching urban built environments  
along transnational production processes.*

**10:40** Gernot Grabher\*, HCU Hamburg, *Dissociation. A tale  
about outsiders and the valuation of architectural  
creativity.*

**11:00** Marc Michael Seebacher\*, University of Graz, *Valuations  
@ home: valuation practices, the housing market and  
home ownership.*

Discussant(s): James T. Murphy, Clark University

**4285. Graduate Student Health and Wellbeing: A Frank Discussion  
II (Sponsored by AAG Careers and Professional Development  
Theme, Paleoenvironmental Change Specialty Group,  
Graduate Student Affinity Group, Health and Medical  
Geography Specialty Group)**

*Room:* Salon H, Marriott, Fourth Floor (Panel Session)

ORGANIZER(S): Matthew T. Kerr, The University of Tennessee

CHAIR(S): Matthew T. Kerr, The University of Tennessee

Introducer: Matthew T. Kerr

Discussant(s): Nicholas L. Padilla, University of Wisconsin-  
Milwaukee

Panelists: Amanda C. Marshall, Southern Illinois University;  
Stine Hansen, McMaster University; Joe Tokosh;  
Emily Kaufman, University of Kentucky; Phillipa  
Gardner, University of Sheffield

**4286. Trees in the City I: Urban Forest Mapping and Monitoring  
(Sponsored by Cultural and Political Ecology Specialty  
Group, Human Dimensions of Global Change Specialty  
Group, Urban Geography Specialty Group)**

*Room:* Salon I, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Shawn Landry, University of South Florida;  
Tenley Conway, University of Toronto- Mississauga

CHAIR(S): Tenley Conway, University of Toronto- Mississauga

**10:00** Shawn Landry\*, University of South Florida; Qiuyan  
Yu, University of South Florida, *Land Use Matters  
When Estimating Urban Forest Structure and Benefits:  
Sensitivity To the Number and Configuration of Land  
Use Categories.*

**10:20** Andrew K. Johnston\*, Smithsonian Institution, *Observing  
Historic Tree Growth, Loss, and Replacement in Urban  
Residential Zones.*

**10:40** Thi-Thanh-Hiên PHAM\*, Université du Québec à  
Montréal; Philippe Apparicio, University of Québec  
(INRS-UCS), *Mapping street tree density and  
diversity: A spatial analysis based on the street network  
in Montréal.*

**11:00** Adam Berland\*, Ball State University; Ben Lockwood,  
City of Indianapolis, *Increased street tree density and  
diversity over 13 years in central Indianapolis.*

**11:20** Lara Roman\*, USDA Forest Service, *Citizen science data  
quality in urban forestry.*

**4287. Energy Efficiency and Sustainable Design**

*Room:* Salon J, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Ted C. Eckmann, University of Portland

CHAIR(S): Ted C. Eckmann, University of Portland

**10:00** Summer L. Grandy\*, University of Portland; Brooke  
A. Holmes, University of Portland; Zoe M. Shaw,  
University of Portland; Georgia L. Hastie, University  
of Portland; Ted C Eckmann, University of Portland,  
*Developing New Substrates to Improve Ecoroof  
Performance in Temperate Rainforest Climates.*

**10:20** Amanda M. Adams\*, University of Portland; Nicole

E. Statler, University of Portland; Ted C. Eckmann,  
University of Portland, *Optimizing Photovoltaic  
Positioning and Ratios of Solar to Vegetated Roof  
Systems in the US Pacific Northwest.*

**10:40** Carla I. Cerda\*, University of Portland; Ted C  
Eckmann, University of Portland, *Monitoring  
Micrometeorological Conditions Inside of Buildings to  
Assess Energy Efficiency.*

**4288. Phenological Responses to Climate Change (II) (Sponsored by  
Remote Sensing Specialty Group, Climate Specialty Group,  
Biogeography Specialty Group)**

*Room:* Salon K, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Shiguo Jiang, SUNY - Albany; Andrei Lapenis,  
SUNY - Albany; Alexander Buyantuev, University at  
Albany, SUNY

CHAIR(S): Andrei Lapenis, SUNY - Albany

**10:00** Norman Gervais\*, University at Albany, State University  
of New York; Alexander Buyantuev, Ph.D., University  
at Albany, State University of New York; Feng Gao,  
Ph.D., Agricultural Research Services, United States  
Department of Agriculture, *Using Fused Satellite Data  
to Monitor the Effects of the Heterogeneous Urban  
Environment on Plant Phenology.*

**10:20** Keith G. Henderson\*, Villanova University, *Autumn Onset  
Trends in the Northeastern United States.*

**10:40** Maegen Rochner\*, University of Tennessee Knoxville;  
Henri D Grissino-Mayer, PhD, University of  
Tennessee Knoxville, *Investigation of Climate-Growth  
Relationships in High-Elevation Whitebark Pine,  
Beartooth Mountains, Wyoming, U.S.A..*

**11:00** Shiguo Jiang\*, SUNY - Albany; Andrei Lapenis, SUNY -  
Albany; Alexander Buyantuev, SUNY - Albany, *Spatial  
Variation of Plant Sensitivity to Warming Effects.*

**4289. IJGIS panel on special issues (Sponsored by Geographic  
Information Science and Systems Specialty Group,  
Cyberinfrastructure Specialty Group, Spatial Analysis and  
Modeling Specialty Group)**

*Room:* Vineyard, Marriott, Fourth Floor (Panel Session)

ORGANIZER(S): May Yuan, University of Texas - Dallas

CHAIR(S): May Yuan, University of Texas - Dallas

Panelists: Somayeh Dodge, University of Minnesota; Shih-  
Lung Shaw, University of Tennessee; Stacy Warren,  
Eastern Washington University; Xiaobai Angela Yao,  
University Of Georgia

**4290. Geographic Methods in Hazards and Disasters Research  
(Sponsored by Hazards, Risks, and Disasters Specialty  
Group)**

*Room:* Yarmouth, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Laura Kathryn Siebeneck, University of North  
Texas; Ronald Louis Schumann, University of North  
Texas

CHAIR(S): Ronald Louis Schumann, University of North Texas

**10:00** Kayode Atoba, PhD Candidate\*, Texas A&M University,  
*Impact of Parcel Fill on Residential Flood Damages.*

**10:20** Adrienne Katherine Tucker\*, Pennsylvania State  
University, *Visualizing Emergency Management  
Resource Access in a GIS Using Physical and Social  
Vulnerability Variables.*

**10:40** Tim G. Frazier\*, Georgetown University, *Sea-Level Rise  
& Onsite Wastewater Treatment System Failure in  
Coastal Communities.*

**11:00** Ronald Louis Schumann\*, University of North Texas,  
*Recovery VGI: Integrating Visual, Participatory,  
and Geospatial Methods for Assessing Long-Term  
Community Recovery.*

**4291. Urban Economies and the Ordinary Life G: Segregation in  
Cities II**

*Room:* Nantucket, Marriott, Fourth Floor (Paper Session)



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ORGANIZER(S): John Miron, University of Toronto

CHAIR(S): David R. Rain, The George Washington University

**10:00** Sofiane Abbar, PhD, Qatar Computing Research Institute; Emanuele Strano, PhD, MIT; Riqui Li, Beijing Normal University and MIT; Yanyan Xu, PhD, MIT; Marta Gonzalez, Professor\*, MIT, *A comparative study of economic complexity and social mixing in growing cities.*

**10:20** Paula Jones\*, Texas State University, *Leveraging property condition data to predict and map neighborhood change.*

**10:40** Camilo Rey\*, University of Kentucky, *Urban spatial segregation of population displaced by war: A comparative analysis of five Colombian cities..*

**11:00** Eun Jin Shin\*, University of Southern California, *Polycentric Urban Structure And Disparities In Access To Opportunities Across Neighborhoods: Evidence From The Los Angeles Region.*

**11:20** David R. Rain\*, The George Washington University; Thomas Elms, The George Washington University, *Emergent Gentrification? Housing Change and Community Response in Mathare Slum, Nairobi Kenya.*

## 4292. Geospatial Health Research Symposium: Applications II (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group, Health and Medical Geography Specialty Group)

Room: Provincetown, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Eric M. Delmelle, University of North Carolina at Charlotte; Michael J. Widener, University of Toronto; Mei-Po Kwan, University of Illinois at Urbana-Champaign

CHAIR(S): Abeer Hamdan

**10:00** Claudio Owusu\*, University of North Carolina, Charlotte; Eric Delmelle, University of North Carolina, Charlotte; Wenwu Tang, University of North Carolina, Charlotte; Yu Lan, University of North Carolina, Charlotte; Elizabeth Major, University of North Carolina, Charlotte; Jiyang Shi, University of North Carolina, Charlotte; Gary Silverman, University of North Carolina, Charlotte; Samantha Dye, Gaston County Department of Health & Human Services, *Hybrid Geocoding and Text Matching: A Multi-stage Process to Improve Geocoding Accuracy and Match Rate of Historical Records.*

**10:20** Yu Lan\*, University of North Carolina, Charlotte; Wenwu Tang, University of North Carolina, Charlotte; Eric Delmelle, University of North Carolina, Charlotte; Claudio Owusu, University of North Carolina, Charlotte, *Fusion of multiple Web-based geocoding services for improved address matching.*

**10:40** Abeer Hamdan, PhD\*, Phoenix College, *Examining heavy metal contamination in soils within recreational shooting areas: Tonto National Forest, AZ..*

**11:00** Pepijn Viaene\*, Ghent University; Jo Dendaauw, AZ Groeninge; Michèl Verheem, ID/Lab; Giorgio Goi, ID/Lab; Alain De Wulf, Ghent University; Philippe De Maeyer, Ghent University, *Evaluating Signage Systems in a Health Care Facility.*

**11:20** Tingting Zhao\*, Florida State University; Jinfeng Zhang, Florida State University, *Health Disparities in Breast Cancer: Socioeconomics and Lifestyle Drivers for Asian and Hispanic Americans.*

## 4293. Japan after 3/11: Global Perspectives on the Earthquake, Tsunami, and Fukushima Meltdown (Sponsored by Asian Geography Specialty Group, Hazards, Risks, and Disasters Specialty Group, Energy and Environment Specialty Group)

Room: Orleans, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Unryu Suganuma, J. F. Oberlin Univesity

CHAIR(S): Pradyumna P. Karan, University Of Kentucky

Introducer: Pradyumna P. Karan

**10:05** Yukio Yotsumoto\*, Ritsumeikan Asia Pacific University; Shunichi Takekawa, Ritsumeikan Asia Pacific University, *The Social Aspects of Fukushima Residents' Sufferings after the 3.11 Nuclear Disaster.*

**10:25** Kenji Yamazaki\*, Iwate University, *Process of forming the disaster culture - Propagation and formation of a phrase "Tsunami-ten-den-ko (Run away immediately to a hill to stay alive)"-*

**10:45** Tomoko Yamazaki\*, Iwate University, *School and Disaster Culture in Sanriku Coast, Japan.*

**11:05** Unryu Suganuma\*, J. F. Oberlin Univesity, *Nuclear Energy Politics of Fukushima in Japan.*

Discussant(s): Pradyumna P. Karan, University Of Kentucky

## 4294. Spatiotemporal Symposium -- Geospatial and Spatiotemporal Ontology and Semantics (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group)

Room: Hyannis, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Alexandre Sorokine, Oak Ridge National Laboratory; Chen-Chieh Feng, Geography, National University of Singapore

CHAIR(S): Alexandre Sorokine, Oak Ridge National Laboratory

**10:00** E. Lynn Usery\*, United States Geological Survey, *A Map as a Semantic Web Knowledge Base.*

**10:20** Michael Cameron Crow\*, Oak Ridge National Laboratory; Ranjeet Devarakonda, Oak Ridge National Laboratory; Alexandre Sorokine, Oak Ridge National Laboratory; Anthony King, Oak Ridge National Laboratory; Benjamin Preston, Oak Ridge National Laboratory, *Mercury: Urban Information Systems Metadata Search.*

**10:40** Jeon-Young Kang\*, SUNY - Buffalo; Thomas Bittner, SUNY - Buffalo, *Qualitative Trajectory Relations.*

**11:00** Yingjie Hu\*, University of Tennessee Knoxville, *Discovering and Quantifying Semantic Relatedness between Cities Using News Reports.*

**11:20** Yiting Ju\*, University of California - Santa Barbara; Benjamin Adams, Centre for eResearch, The University of Auckland; Krzysztof Janowicz, STKO Lab, University of California; Yingjie Hu, University of Tennessee; Bo Yan, STKO Lab, University of California; Grant McKenzie, University of Maryland, *Things and Strings: Improving Place Name Disambiguation from Short Texts.*

## 4295. Marginalization and regeneration of cities through migration and migrants - Comparative studies

Room: Falmouth, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Michael Eric Samers, University Of Kentucky; Felicitas Barbara Hillmann, Leibniz-Institute on Society and Space

CHAIR(S): Felicitas Barbara Hillmann, Leibniz-Institute on Society and Space

Introducer: Felicitas Barbara Hillmann

**10:05** Els de Graauw\*, Baruch College, the City University of New York, *City and State Immigrant Affairs Offices in the United States: Taking Local Control of Immigrant Integration.*

**10:25** Elisabeth Kirndörfer\*, Leibniz Institute for Regional Geography, *Conceptualising the city as a post-migrant space - discourses, practices, and critical potentials.*

**10:45** David H. Kaplan\*, Kent State University, *Immigration and Regeneration in Two Parisian Neighborhoods: Exploring the Social Impact of Immigrant Ethnic Economies.*

## 4296. Critical Geographies of Subsurface, Sky, and Other Inscrutable Spaces, II (Sponsored by Cultural and Political Ecology Specialty Group, Human Dimensions of Global Change Specialty Group, Water Resources Specialty Group)

Room: Maine, Marriott, Fifth Floor (Paper Session)



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ORGANIZER(S): Adrienne Kroepsch, University of Colorado At Boulder; Katherine Clifford

CHAIR(S): Katherine Clifford

**10:00** Leslie Acton\*, Duke University; Lisa Campbell, PhD, Duke University; Noella Gray, PhD, University of Guelph; Patrick Halpin, PhD, Duke University, *What is the Sargasso Sea? The problem of fixed space in a fluid ocean.*

**10:20** Matthew Kearnes\*, University of New South Wales, *Going to Ground - Tales from the Carbon Frontier.*

**10:40** Erik Kojola\*, University of Minnesota, *Contested Metals: Knowledge, Politics and Culture of Copper-Nickel Mining Controversies in Minnesota.*

**11:00** Maria Melo Zurita, Macquarie University; Paul Munro\*, University of New South Wales - Sydney, NSW, *The Subterranean Protagonist: Colonisation, water and the underground in Mexico.*

Discussant(s): Katherine Genevieve Sammler, California State University - Maritime Academy

Room: Vermont, Marriott, Fifth Floor (Paper Session)

ORGANIZER(S): Zachary A. Jones, Eastern Michigan University

CHAIR(S): Yimeng SONG, Chinese University of Hong Kong

**10:00** Shuguang Wang\*, Ryerson University; Shan Yang, Nanjing Normal University, *A Comparative Analysis of Nanjing and Toronto for Their Respective Urban Planning Systems.*

**10:20** Yiwen Shao\*, The Chinese University of Hong Kong, *Analyzing for Urban Resilience in the Content of Post-Earthquake Reconstruction Plans: The Case of Wenchuan County, China.*

**10:40** Yuan Zhang\*, Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences; Qiangzi Li, Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences; Wei Wu, Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, *Identification of Urban Functional Regions using Multi-source Big Data.*

**11:00** David R. Crook, M.A. Student\*, Department of Geography, McGill University, Montreal, Canada; Ping Li, PhD. Associate Professor, Grassland Research Institute, Chinese Academy of Agricultural Sciences, Hohhot, China; Brian E Robinson, PhD. Assistant Professor, Department of Geography, McGill University, Montreal, Canada, *A Choice Experiment on Herders' Perceptions of Tradeoffs Relating to Grazing Management Policies in Inner Mongolia, China.*

**11:20** Yimeng SONG\*, The Chinese University of Hong Kong, *How much green space are the urban residents enjoying?.*

## 4297. Genre Urbanism: Popular Fiction and The City

Room: Massachusetts, Marriott, Fifth Floor (Paper Session)

ORGANIZER(S): Gordon Douglas, New York University; Sophie L. Gonick, New York University

CHAIR(S): Sophie L. Gonick, New York University

**10:00** Sophie L. Gonick\*, New York University, *Subprime Fictions: Violence, Suburbs, and the Mystery of Masculinity.*

**10:15** Gordon C. C. Douglas, PhD\*, NYU / San Jose State University, *The Color Out of Place: Fear before Horror in the Xenophobic Urbanism of H.P. Lovecraft.*

**10:30** Cecilia Mancuso\*, Harvard University, *"Aboriginal" Urbanity: Carla Speed McNeil's Finder and the Cultural Ecology of the Science-Fictional City.*

**10:45** Carlo Rotella\*, Boston College, *The Pulp City: Urban Orders in Genre Fiction.*

**11:00** Nasser Abourahme\*, Columbia University, *'Nothing to Lose but our Tents': the camp, revolution and the stubborn insistence of domestic objects.*

Discussant(s): Matthew Farish, University of Toronto

## 4298. Neo-Extractivism, Resource Nationalism, and 'New' Geographies of Resource Governance and Development (2) (Sponsored by Political Geography Specialty Group, Cultural and Political Ecology Specialty Group, Development Geographies Specialty Group)

Room: New Hampshire, Marriott, Fifth Floor (Paper Session)

ORGANIZER(S): Emily Billo, Goucher College; Meredith J.

DeBoom, University of Colorado at Boulder

CHAIR(S): Emily Billo, Goucher College

**10:00** Meredith J. DeBoom\*, University of Colorado at Boulder, *Extracting South-South Solidarity: How Chinese Investment has Facilitated Resource Nationalism in Namibia.*

**10:20** Anna C. Revette, PhD\*, Northeastern University, *Socios No Patronos: Resource Nationalism and Lithium Dreams in Bolivia.*

**10:40** Jesse Quinn, PhD Candidate\*, Syracuse University, *'The Russians Blew It Up!': Environmental imaginaries and gold mining after the Rose Revolution.*

**11:00** James Van Alstine\*, University of Leeds, *The politics of norms in resource governance: contesting transparency and accountability in Uganda's oil bearing regions.*

**11:20** Mia M. Bennett\*, UCLA Department of Geography / Cryopolitics, *A road home or a "road to resources"? Indigenous and state visions of Canada's first highway to the Arctic Ocean.*

## 4299. Regional Development and Urban Planning Series II (China) (Sponsored by China Specialty Group, Regional Development and Planning Specialty Group, Urban Geography Specialty Group)

**SATURDAY, April 8 • 11:50 AM - 1:10 PM • 4300****4301. Media and Communication Geography Specialty Group Business Meeting (Sponsored by Communication Geography Specialty Group)***Room: Room 101, Hynes, Plaza Level (Meeting Session)***4304. Applied Geography Specialty Group Business Meeting (Sponsored by Applied Geography Specialty Group)***Room: Room 104, Hynes, Plaza Level (Meeting Session)***4307. Asian Geography Specialty Group Business Meeting (Sponsored by Asian Geography Specialty Group)***Room: Room 108, Hynes, Plaza Level (Meeting Session)***4310. Geography of Religions and Belief Systems Specialty Group Business Meeting (Sponsored by Geography of Religions and Belief Systems Specialty Group)***Room: Room 111, Hynes, Plaza Level (Meeting Session)***4312. Canadian Studies Specialty Group Business Meeting (Sponsored by Canadian Studies Specialty Group)***Room: Room 201, Hynes, Second Level (Meeting Session)***4313. Caregiving Affinity Group Business Meeting (Sponsored by Caregiving Affinity Group)***Room: Room 202, Hynes, Second Level (Meeting Session)***4315. Black Geographies Specialty Group Business Meeting (Sponsored by Black Geographies Specialty Group)***Room: Room 204, Hynes, Second Level (Meeting Session)***4317. Resources for Expanding Open Geospatial Education (Sponsored by AAG Mapathon)***Room: Room 206, Hynes, Second Level (Panel Session)*

ORGANIZER(S): Anthony Calamito, Boundless

CHAIR(S): Anthony Calamito, Boundless

**4326. Cyberinfrastructure Specialty Group Business Meeting (Sponsored by Cyberinfrastructure Specialty Group)***Room: Room 306, Hynes, Third Level (Meeting Session)***4332. In honor of Doreen Massey (Sponsored by Latin America Specialty Group, Socialist and Critical Geography Specialty Group, Economic Geography Specialty Group)***Room: Room 312, Hynes, Third Level (Panel Session)*

ORGANIZER(S): Jamie Peck, University of British Columbia;

Victoria A. Lawson, University of Washington; Erica

Schoenberger, Johns Hopkins University

CHAIR(S): Victoria A. Lawson, University of Washington

Introducer: Victoria A. Lawson

Panelists: Trevor J. Barnes, University Of British Columbia;

Allan Douglas Cochrane, Open University; Rogerio

Haesbaert, Fluminense Federal University; Flavia

Martinelli, Dipt. Architettura e Territorio - Università

Mediterranea di Reggio Calabria; Susan M. Roberts,

University Of Kentucky

**4339. Uncertainty and Context in Geography and GIScience Featured Theme Closing Plenary (Sponsored by Uncertainty and Context in Geography and GIScience Featured Theme) - Featured Session***Room: Independence West, Sheraton, Second Floor (Panel Session)*  
Organizer and Chair: **Mei-Po Kwan**, University of Illinois at Urbana-Champaign

Speakers:

**Tim Schwanen**, University of Oxford;**Wenzhong Shi**, The Hong Kong Polytechnic University;**Jamie Pearce**, University of EdinburghDiscussant: **Daniel A. Griffith**, U. of Texas at Dallas**4343. Environmental Perception and Behavioral Geography Specialty Group Business Meeting (Sponsored by Environmental Perception and Behavioral Geography Specialty Group)***Room: Back Bay Ballroom B, Sheraton, Second Floor (Meeting Session)***4350. Geography Education Specialty Group Business Meeting (Sponsored by Geography Education Specialty Group)***Room: Beacon F, Sheraton, Third Floor (Meeting Session)*

# SATURDAY April 8 • 1:20 PM - 3:00 PM • 4400

Poster Sessions for Saturday are located on pages 322-326.

**4401. Exterminism in the Age of Capital (Sponsored by Cultural and Political Ecology Specialty Group, Socialist and Critical Geography Specialty Group, Development Geographies Specialty Group)**

**Room:** Room 101, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): Christopher R. Cox, University of Washington  
 CHAIR(S): Christopher R. Cox, University of Washington  
**1:20** Christopher R. Cox\*, University of Washington, *The Productivore's Dilemma: Extinction and Extermination in the Age of Capital*.  
**1:40** Rosemary-Claire Collard\*, Concordia University, *Disaster capitalism and the quick, quick, slow unraveling of animal life*.  
**2:00** Justin Daniel McBrien\*, University of Virginia, *Geographies of the Necrocene: Energy Extraction, Sixth Extinction, and Accumulation by Extermination in Everyday life*.  
**2:20** Ashley Dawson\*, The Graduate Center, City University of New York, *Extinction in the Capitalocene*.  
 Discussant(s): Jason W. Moore

**4402. Linking Geographical Science to Policy: Opportunities at the U.S. National Academies of Science (Sponsored by Hazards, Risks, and Disasters Specialty Group, Urban Geography Specialty Group, Health and Medical Geography Specialty Group) - Featured Session**

**Room:** Room 102, Hynes, Plaza Level (Panel Session)  
 Organizer and Chair: Carol P. Harden, University of Tennessee  
 Panelists:  
 Anthony J. Bebbington, Clark University;  
 Nancy L. Jackson, New Jersey Institute of Technology;  
 William D. Solecki, Hunter College - CUNY;  
 Marilyn A. Brown, Georgia Institute of Technology;  
 Michael Jerrett, University of California

Discussants:  
 Thomas J. Baerwald, National Science Foundation;  
 Douglas Richardson, American Association of Geographers

The Geographical Sciences Committee (GSC) of the U.S. National Academies of Science exists to provide high-quality, objective, scientific, technical, and policy advice and recommendations to society and to government at all levels, i.e., to provide geographical science to shape policy. The Committee responds to specific requests from federal agencies and other organizations and can also initiate workshops or studies to address important contemporary problems by analyzing and synthesizing existing knowledge. This panel discussion is intended to better acquaint AAG members with the work of the Geographical Sciences Committee and to engage geographers in an open conversation about important societal issues that could or should be informed by geographical science. Contributions from current committee members and representatives of organizations that have supported the GSC's work will introduce the structure and function of the Geographical Sciences Committee within the National Academies, with examples of the Committee's activities and products, and an open discussion will solicit and consider topics for future initiatives.

**4403. International Human Rights Priorities: Featured Perspectives (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme)**

**Room:** Room 103, Hynes, Plaza Level (Panel Session)  
 ORGANIZER(S): John Wertman, American Association of Geographers; Mainstreaming Human Rights; Douglas Richardson, American Association of Geographers  
 CHAIR(S): Douglas Richardson, American Association of Geographers  
 Panelists: Michael Posner, NYU Stern Center for Business and Human Rights; Terry Rockefeller, Amnesty International USA; Beth Simmons, University of

Pennsylvania; Jessica Wyndham, AAAS Scientific Responsibility, Human Rights and Law Program; Tawanda Mutasah, Amnesty International

**4404. Catching up with the frontier of innovation 3 (Sponsored by Economic Geography Specialty Group, Business Geography Specialty Group)**

**Room:** Room 104, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): Jung Won Sonn, University College London; Robert Hassink, Dept. of Geography, University of Kiel  
 CHAIR(S): Jung Won Sonn, University College London  
**1:20** ILWON SEO\*, University College London; Jung Won Sonn, University College London, *The Urban Dimension Of Technology Adoption: Analysis Of Patent Licensing In China*.  
**1:40** HAEOK CHOI\*, Science and technology policy institute, *Nature-Selected Regional Innovation Network of Wine Industry in China*.  
**2:00** Yukang Sun\*, *The Spatial Coupling relationship between innovation and production of the manufacturing enterprises in Beijing: a Analysis based on the Life Cycle theory*.  
**2:20** Dingxi HUANG\*, Centre for Policy Research, Guangdong Department of Housing, Urban and Rural Development; Qijing LIAO, Guangzhou Land, Resources and Planning Commission, China; Yang CHEN, Centre for Policy Research, Guangdong Department of Housing, Urban and Rural Development, *Planning and Development of Open Innovation Space in the Pearl River Delta*.  
 Discussant(s): Robert Hassink, Dept. of Geography, University of Kiel

**4405. Confronting the (White) City and White Spatial Imaginaries: A Conversation (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme, Urban Geography Specialty Group)**

**Room:** Room 105, Hynes, Plaza Level (Panel Session)  
 ORGANIZER(S): Aretina Rochelle Hamilton, University of Kentucky; Annette Koh, University of Hawaii at Manoa, Urban & Regional Planning  
 CHAIR(S): Aretina Rochelle Hamilton, University of Kentucky  
 Panelists: Chad Newbrough Steacy, University of Georgia; Amy Shimshon-Santo, CREO; Aretina Rochelle Hamilton, University of Kentucky; Jason Burke Murphy, Elms College; Annette Koh, University of Hawaii at Manoa, Urban & Regional Planning

**4406. Indigenous Peoples and Climate Change (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme, Human Dimensions of Global Change Specialty Group, Climate Specialty Group, Indigenous Peoples Specialty Group)**

**Room:** Room 107, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): RDK Herman, National Museum of the American Indian  
 CHAIR(S): RDK Herman, National Museum of the American Indian  
**1:20** Pallavi V Das\*, Lakehead University, *Climate Change Knowledge from Below and Above: Comparison of apple farmers' and scientists' views of climate change in the Himalayas*.  
**1:40** Keith Bosak\*, The University of Montana; Sarah Halvorson, the University of Montana, *Impacts of Climate Change and socio-economic change on indigenous people in the Indian Himalaya*.  
**2:00** Dylan Harris\*, Clark University, *Mountain-Bodies, Experiential Wisdom: The Kallawaya Cosmivision and Climate Change Adaptation*.  
**2:20** Daniel G. Cole, Smithsonian Institution; William Fitzhugh, National Museum of Natural History, *Exhibiting the*



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*Interconnections between Inuit, Narwhals, and Climate Change.*

- 2:40** Logan Christian\*, Utah State University; Forrest Scott Schoessow, Utah State University, *Cultural dimensions of climate change impacts in the subtropical Andes Mountains.*

**4407. Understanding infrastructure: need, value and purpose (Authors meet critics)**

**Room:** Room 108, Hynes, Plaza Level (Panel Session)  
 ORGANIZER(S): Ralitsa Hiteva, SPRU, University of Sussex  
 CHAIR(S): Jenny McArthur, UCL STEaPP  
 Panelists: Natasha L. Cornea, University College London; Mark Usher, University of Manchester; Katherine Lovell, University of Sussex; Neil J. Carhart, University of Bristol; Tom Dolan, UCL; Ralitsa Hiteva, SPRU, University of Sussex; Janice Astbury, University of Durham

**4408. Sexuality and Space 20+1 II: Building (Sponsored by Sexuality and Space Specialty Group)**

**Room:** Room 109, Hynes, Plaza Level (Panel Session)  
 ORGANIZER(S): Julie A. Podmore, John Abbott College; Max Andrucki, Temple University; Farhang Rouhani, University of Mary Washington  
 CHAIR(S): Nathaniel M. Lewis, University of Southampton  
 Panelists: Kath Browne, University of Brighton; Petra L. Doan, Florida State University; Andrew Gorman-Murray, Western Sydney University; Catherine Jean Nash, Brock university, Department of Geography; Natalie Oswin, McGill University

**4409. Animal Geographies 3: Monitoring human-wildlife interactions (Sponsored by Animal Geography Specialty Group)**

**Room:** Room 110, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): RDK Herman, National Museum of the American Indian  
 CHAIR(S): Kate Markham, Clark University  
**1:20** Jennifer A. Miller\*, University of Texas at Austin, *Measuring path-based dynamic interactions between moving objects.*  
**1:40** Lee Ann Nolan\*, West Virginia University; Jonathan Hall, West Virginia University; Aaron Maxwell, West Virginia University; Melissa Braham, West Virginia University; Joseph Brandt, United States Fish and Wildlife Service; Michael Lanzone, Cellular Tracking Technologies; Andrew McGann, Cellular Tracking Technologies; Todd Katzner, United States Geological Survey, *Exploring California Condor Foraging Ecology Through Remote Sensing.*  
**2:00** JUNBEOM BAHK\*, QiuHong Jin; Wanhee Kim, *Spatial pattern of wildlife-vehicle collision according to topographical conditions of national park roads in South Korea.*  
**2:20** Daniel J. Gurdak\*, SUNY College of Environmental Science and Forestry; Veronika Miranda, University of Massachusetts Boston; Leandro Castello, Virginia Polytechnic Institute and State University; David McGrath, Earth Innovation Institute, *Management via proxy: Evaluating surrogate roles in resource management of giant arapaima.*  
**2:40** Kate Markham\*, Clark University; Florencia Sangermano, PhD, Clark University; John Rogan, PhD, Clark University, *Modeling Faunal Vulnerability to Artisanal and Small-Scale Mining in Madre de Dios, Peru.*

**4410. Tornadoes, Climate, and Society**

**Room:** Room 111, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): Tyler Fricker, Florida State University  
 CHAIR(S): Tyler Fricker, Florida State University  
**1:20** Tyler Fricker\*, Florida State University; James B. Elsner,

Florida State University; Thomas H. Jagger, Florida State University, *Energy and population elasticity of tornado casualties at the tornado level.*

- 1:40** James Elsner\*; Thomas H. Jagger, Florida State University; Tyler Fricker, Florida State University; Victor Mesev, Florida State University, *Tornado Clusters: Climatology and A Method To Generate a Tornado Event Set.*  
**2:00** Todd W. Moore\*, Towson University; Nicholas J. Sokol, Louisiana State University, *Statistical characteristics of high-frequency tornado days and preliminary observations of their associated synoptic patterns.*  
**2:20** Grady Dixon\*, Fort Hays State University, *Testing the boundaries of "Tornado Valley" using multiple methods.*  
**2:40** Kelsey N. Ellis\*, University of Tennessee; Lisa Reyes Mason, University of Tennessee; Kelly N. Gassert, University of Tennessee; Tyler Fricker, Florida State University; James B. Elsner, Florida State University, *A Comparison of Perceived and Climatological Risk to Tornadoes Surrounding Three Tennessee Cities.*

**4411. Learning About the Pan-American Institute of Geography and History through Grants, Research, and Collaboration**

**Room:** Room 200, Hynes, Second Level (Panel Session)  
 ORGANIZER(S): Dolly Garcia, U.S. Bureau Of the Census  
 CHAIR(S): Dolly Garcia, U.S. Bureau Of the Census  
 Panelists: Diana Stuart Sinton, UCGIS; David S. Salisbury, University Of Richmond; Patricia A. Solís, Texas Tech University - Lubbock, TX; Dolly Garcia, U.S. Bureau Of the Census

**4412. lifestyle mobilities and local communities (Sponsored by Recreation, Tourism, and Sport Specialty Group)**

**Room:** Room 201, Hynes, Second Level (Paper Session)  
 ORGANIZER(S): Honggang Xu, Sun Yat-sen University  
 CHAIR(S): Honggang Xu, Sun Yat-sen University  
**1:20** Caiping Wang\*, Sun Yat-sen University; Gang Li, University of Surrey; Honggang Xu, Sun Yat-sen University, *Lifestyle-oriented motivation as a driver for small tourism enterprise's social responsibility and its performance.*  
**1:35** Honggang Xu\*, Sun Yat-sen University; Xiangjie tang, The Foshan Polytech University, *Work as a leisure as a working tourist in Dali.*  
**1:50** Bai Kai\*, *The Place Attachment and Subjective Well-being of Tourism Labor Migrants in Xi'an Hui Community China.*  
**2:05** Tamara Ratz\*, Kodolanyi Janos University of Applied Sciences; Gabor Michalko, Hungarian Academy of Sciences, Geographical Institute, *The role of friends, relatives and residents in tourism - An analysis of the international VFR market in Hungary.*  
**2:20** Jun Li\*, Sun Yat-sen University; Peng Yang, Sun Yat-sen University; Songheng Guan, Sun Yat-sen University, *Impact analysis of the built-environment on the public bicycle systems: A case study of Guangzhou and Foshan.*  
**2:35** Yuan Li\*, Xiamen University, *Behavior Conflict between Tourists and Local Residents in the Community-based Attraction? Case Study of Gulangyu, China.*

**4413. Ecologies of Toxicity 1: Immiscibility**

**Room:** Room 202, Hynes, Second Level (Paper Session)  
 ORGANIZER(S): Joe Gerlach, University of Oxford; Thomas Jellis, University of Oxford; Sasha H. Engelmann, University of Oxford  
 CHAIR(S): Joe Gerlach, University of Oxford  
 Introducer: Joe Gerlach  
**1:40** Emma J Lawlor, MA\*, University of Arizona, School of Geography and Development, *Questioning Chemical Geographies: Chronic Kidney Disease in Central*



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*America.*

**2:00** Anna-Katharina Laboissière, PhD student\*, Ecole Normale Supérieure and Curtin University, *Our haunted archives: toxicity, ecological disruption, and archiving biodiversity.*

**2:20** James Ash\*, Newcastle University, *Phase Space: smart objects, air quality and the politics of toxicity.*

**2:40** Jol Thomson\*, Akademie Schloss Solitude, *BotNet Agency In Our CyberPunk Ecology.*

**4414. The Web GIS Evolution: Implications for Curricula (Sponsored by Geographic Information Science and Systems Specialty Group, Esri, AAG Careers and Professional Development Theme, Geography Education Specialty Group)**

*Room:* Room 203, Hynes, Second Level (Panel Session)

ORGANIZER(S): David DiBiase, Esri

CHAIR(S): David DiBiase, Esri

Discussant(s): Forrest J. Bowlick, University of Massachusetts - Amherst; Alex Singleton

Panelists: Eric Shook, University of Minnesota; Seth Peery, Virginia Tech; Geri Miller, Esri; Arthur Lembo, Salisbury University

**4415. Myanmar in Transition: Democracy, Development and Social Change I (Sponsored by Asian Geography Specialty Group)**

*Room:* Room 204, Hynes, Second Level (Paper Session)

ORGANIZER(S): Chung-Tong Wu, Western Sydney University; Xiaobo Su, University of Oregon; Marion SABRIE, Center for Southeast Asian Studies

CHAIR(S): Marion SABRIE, Center for Southeast Asian Studies

**1:20** Jacob Shell\*, Temple University, *Three Possible Futures for Myanmar's Unique Population of Trained Elephants.*

**1:40** Hunter Marston\*, Brookings Institution, *Myanmar's National Union (and Reconciliation) Will Take Decades.*

**2:00** Xiaobo Su\*, University of Oregon, *Gender, Ethnicity, and Citizenship: Female Burmese workers in Chinese border cities.*

**2:20** Jasnea Sarma\*, National University Of Singapore, *'Home' is from Kachinland to Assam - Oral histories and Emotional Geographies of Border Transgressions and Connected Ethno-Nationalisms in India and Myanmar.*

Discussant(s): Marion SABRIE, Center for Southeast Asian Studies

**4416. Film Geographies: Text, Context and Political Economies (Sponsored by Geography Education Specialty Group, Cultural Geography Specialty Group, Communication Geography Specialty Group)**

*Room:* Room 205, Hynes, Second Level (Paper Session)

ORGANIZER(S): Joseph Palis, University of the Philippines-Diliman; Hélène DUCROS

CHAIR(S): Joseph Palis, University of the Philippines-Diliman

**1:20** Ekaterina Belova\*, Lomonosov Moscow State University, *Cinematic tourism in Russia: opportunities and limitations.*

**1:40** Joseph Palis\*, University of the Philippines-Diliman, *Cartographic Anxieties and the Eloquence of Silence and Open Spaces in the Feminist Westerns of Kelly Reichardt.*

**2:00** Katrinka C. Somdahl-Sands\*, Rowan University, *Citizenship in NYC: Comparing Marvel's Daredevil, Jessica Jones, and Luke Cage.*

**2:20** Alana N. Seaman, Ph.D.\*, University of North Carolina Wilmington; Alexia Francesca Franzidis\*, UNCW, *Examining the role and impact of Sport Film Festivals on local communities.*

**2:40** Giovanna Ceno\*, University of Palermo, Italy, *Montelusa does not exist! Southeastern Sicily beyond mass media stereotypes..*

**4417. Mapternoon A (Sponsored by AAG Mapathon)**

*Room:* Room 206, Hynes, Second Level (Panel Session)

ORGANIZER(S): Thomas Gertin, ActioNet; Sven Fuhrmann, George Mason University; Patricia A. Solis, Texas Tech University - Lubbock, TX

CHAIR(S): Thomas Gertin, ActioNet

**4419. The process of Metropolisation: Reconfiguring the city at the regional scale 2**

*Room:* Room 210, Hynes, Second Level (Paper Session)

ORGANIZER(S): Rodrigo Cardoso, Delft University of Technology; Evert Meijers, Delft University of Technology

CHAIR(S): Evert Meijers, Delft University of Technology

**1:20** Roi Salgueiro Barrio\*, MIT School of Architecture and Planning; Hashim Sarkis, MIT SA+P, *Urban Code. A methodology for the analysis of post-metropolitan urban formations.*

**1:40** Rodrigo Cardoso\*, Delft University of Technology; Evert Meijers, Delft University of Technology, *Metropolisation: from the Regionalisation of the City to the Citification of the Region.*

**2:00** Giancarlo Paba, Professor\*, University of Florence, Italy, *The role of territory and inter-city cooperation in the post-metropolitan transition: the case of Florence and Tuscany.*

**2:20** Laurent TERRAL\*, Université Paris-Est, Laboratoire Ville Mobilité Transport, IFSTTAR; Florent Le Néchet, Université Paris-Est, Laboratoire Ville Mobilité Transport, UPEM; Laurent Prouhac, Université Paris-Est, Laboratoire Ville Mobilité Transport, IFSTTAR, *The decentralization of economic activities in Paris mega-city region (1999-2007-2012) : How accessibility, planning strategies and economic crisis have reshaped urban form?*

**2:40** Bindong Sun\*, East China Normal University; Tinglin Zhang, East China Normal University, *Polycentricity or dispersal? The spatial transformation of metropolitan Shanghai.*

**4421. Electoral Geography: Research in Recent Elections (Sponsored by Political Geography Specialty Group, Late-Breaking News Special Session Track, Socialist and Critical Geography Specialty Group)**

*Room:* Room 301, Hynes, Third Level (Paper Session)

ORGANIZER(S): John Heppen, University of Wisconsin, River Falls

CHAIR(S): John Heppen, University of Wisconsin, River Falls

**1:20** Isabel Airas\*, University of Durham, *Affective Politics and the 'Corbyn Phenomenon'.*

**1:40** John Heppen\*, University of Wisconsin, River Falls, *Changing places of Socialist Voting in US Presidential Elections 1908 to 2016.*

**2:00** Fiona M. Davidson\*, University Of Arkansas, *"Nasty" women vote: gender polarization and the 2016 Presidential Election.*

**2:20** Hannah Zucherman, California State University, Long Beach, *Geography of the Gender Gap: Brexit, income and scale.*

**4422. Environmental Solutions I: Cap-and-Trade, Certifications, Permits, and Sequestration**

*Room:* Room 302, Hynes, Third Level (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Douglas Harlan Boucher, Union of Concerned Scientists

**1:20** Grete Rusten\*, University of Bergen, *The Structure.Strategy and Geography of Green Certification Services.*

**1:40** Jingwen Li\*, Cornell University, *Spatial Pattern of Emission Under Tradeable Permit Program.*

**2:00** Lara Cushing, PhD, MPH\*, San Francisco State University; Rachel Morello-Frosch, UC Berkeley; Manuel Pastor,

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University of Southern California; James Sadd, Occidental College; Madeline Wander, University of Southern California, *Mapping carbon markets: A preliminary environmental justice assessment of California's cap-and-trade program.*

- 2:20** Douglas Harlan Boucher\*, Union of Concerned Scientists, *Reforestation the U.S. and the Goal of Negative Climate Emissions by 2050: East vs. West, Public vs. Private Lands, Natural Regeneration vs. Tree Planting.*

**4423. Detection of drought-induced changes in terrestrial ecosystems using remote sensing data 1 (Sponsored by Remote Sensing Specialty Group, Biogeography Specialty Group)**

**Room:** Room 303, Hynes, Third Level (Paper Session)

ORGANIZER(S): Taehee Hwang, Indiana University; Xiaoyang Zhang; Seth Gorelik, University of Idaho

CHAIR(S): Taehee Hwang, Indiana University

- 1:20** Xiaoyang Zhang\*, South Dakota State University; Lingling Liu, South Dakota State University; Dong Yan, South Dakota State University; Jianmin Wang, South Dakota State University, *Variation in Long-term Land Surface Greenness and its Response to Climate and Human Activity.*

- 1:40** Caitlin L. Lippitt\*, University of New Mexico, *Object-based Image Analysis of Piñon Pine Mortality in Central New Mexico.*

- 2:00** Nazla Bushra\*, Louisiana State University; Robert V. Rohli, Louisiana State University, *Assessing the Validity of Drought Indices in the South-Central United States.*

- 2:20** Seth R. Gorelik\*, University of Idaho; Jeffrey A. Hicke, University of Idaho; Arjan J.H. Meddens, University of Idaho; Crystal A. Kolden, University of Idaho, *Spatiotemporal patterns of drought-induced tree mortality in northern New Mexico using a time series of Landsat imagery.*

- 2:40** Michael Palace\*, University of New Hampshire; Michael Palace, Earth System Research Center, Institute for the Study of Earth, Oceans, and Space, UNH; Mark Bush, Biological Sciences, Florida Institute of Technology, Melbourne, FL; Eduardo Góes Neves, Museu de Arqueologia e Etnologia, Universidade de São Paulo, São Paulo, Brazil; Crystal McMichael, University of Amsterdam; Christina Herrick, Earth System Research Center, Institute for the Study of Earth, Oceans, and Space, UNH; Bobby Braswell, Earth System Research Center, Institute for the Study of Earth, Oceans, and Space, UNH; Stephen Hagen, Applied GeoSolutions, LLC, Durham, NH; Steve Frolking, Earth System Research Center, Institute for the Study of Earth, Oceans, and Space, UNH; Eduardo Kazuo Tamanaha, Museu de Arqueologia e Etnologia, Universidade de São Paulo, São Paulo, Brazil, *Long-term Impacts of Pre-Columbian Societies on the Amazonian Forest.*

**4424. Collaborative Governance**

**Room:** Room 304, Hynes, Third Level (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Carmen Tedesco, DAI

- 1:20** Francis Xavier Dery Tuokuu, MSC (UK), BA(GHANA)\*, Antioch University New England; Stephen Dibaar Kpinpuo, Dr., University for Development Studies, *Retooling Tullow Ghana's Corporate Social Responsibility (Csr) Strategy: A Communication Lens.*

- 1:40** Kirsten Schwarz\*, Northern Kentucky University; Mary L. Cadenasso, University of California, Davis; Jonathan K. London, University of California, Davis; Bethany B. Cutts, North Carolina State University, *Fertile Ground for Collaboration: Advancing Community-Research Partnerships through Soil Money.*

- 2:00** Hongze TAN\*, City University of Hong Kong; Miguel Angel Martinez Lopez, City University of Hong Kong,

*Bicycles will tear us apart? Drawbacks of urban governance and cycling promotion in Guangzhou (China).*

- 2:20** Carmen Tedesco\*, DAI; Andrew Watson, DAI, *Development Pathways: A spatial planning approach to international development.*

**4425. Farming systems and global sustainable food security, part 1 - connecting place-based research to global processes (Sponsored by Geographies of Bread and Water in the 21st Century Featured Theme, Geographies of Food and Agriculture Specialty Group)**

**Room:** Room 305, Hynes, Third Level (Paper Session)

ORGANIZER(S): Katharina Waha, CSIRO; Verena Seufert, University of British Columbia

CHAIR(S): Katharina Waha, CSIRO

- 1:20** Rachel M. Shellabarger\*, University of California, Santa Cruz, *A more sustainable 'happy cow'? Potential for sustainable transition in California dairies..*

- 1:40** Richard Vercoe\*, University of Georgia, PhD candidate, *An Agrarian Question for Peasant Conservation and Conservation of the Peasant..*

- 2:00** Michael Bruckert\*, University of Toronto, *Appetite for Meat and Greed for Profit: A Critical Geography of Chicken in India.*

- 2:20** Kimberly M. Carlson\*, University of Hawaii, *Sustainable supply chains for tropical commodity agriculture?.*

Introducer: Katharina Waha

**4426. Globalization and the Matter of Black Lives**

**Room:** Room 306, Hynes, Third Level (Panel Session)

ORGANIZER(S): Adam Bledsoe; Yousuf Al-Bulushi, Goucher College

CHAIR(S): Yousuf Al-Bulushi, Goucher College

Discussant(s): Adam Elliott-Cooper, Warwick University

Panelists: Yousuf Al-Bulushi, Goucher College; Willie Wright, UNC Department of Geography; Adam Bledsoe; Ellen Louis

**4427. Food system transitions 3: Gardening and urban agriculture (Sponsored by Cultural and Political Ecology Specialty Group, Rural Geography Specialty Group, Geographies of Food and Agriculture Specialty Group)**

**Room:** Room 307, Hynes, Third Level (Paper Session)

ORGANIZER(S): Christoph David Dietfried Rupprecht, Research Institute for Humanity and Nature; Steven R. McGreevy, Research Institute for Humanity and Nature

CHAIR(S): Ayako Kawai, Australian National University

- 1:20** Yooinn Hong\*, Penn State University, *How farmers "make it work": home garden plant diversity reveals smallholder adaptation to stresses of historical commercial citrus introduction in Jeju, Korea(1970-2015).*

- 1:40** Stephanie Buechler\*, University of Arizona - Geography & Development; Udall Center for Studies in Public Policy; Daoqin Tong, University of Arizona-Geography & Development, *Desert Food Production: Community Gardens and Social Justice in Tucson, Arizona.*

- 2:00** Alexander Follmann\*, Institute of Geography, University of Cologne, *Environmental impacts of urban and peri-urban agro-food systems in transition: integrating metabolisms into agro-food value chain analysis.*

- 2:20** Hao Duan\*, Shandong University; Scott Sharpe, University of New South Wales-Australia; Alec Thornton, University of New South Wales-Australia, *Food Security in China: a different notion; same solution.*

**4428. Resilience, Food, and Agriculture: Social-Ecological Frameworks for Sustainability and Social Justice III - Governance & Adaptive Capacity (Sponsored by Cultural and Political Ecology Specialty Group, Geographies of Bread and Water in the 21st Century Featured Theme, Geographies**

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- of Food and Agriculture Specialty Group)**  
**Room:** *Room 308, Hynes, Third Level* (Paper Session)  
**ORGANIZER(S):** Russell Hedberg, Pennsylvania State University; Jennifer Blesh, University of Michigan  
**CHAIR(S):** Russell Hedberg, Pennsylvania State University  
**1:20** Ross Christopher Doll, MA\*, University of Washington - Seattle, WA, *"Left to Live and Die": An Analysis of Socioecological Resilience in Post-Agricultural Modernization Reform China.*  
**1:40** Mario Reinaldo Machado\*, Clark University, *Local food resilience in the context of change: A case study from the Afram Plains, Ghana.*  
**2:00** Marygold Walsh-Dilley, PhD\*, University of New Mexico, *Adapting to Dual Threats: Building Resilience to Climate Change and the Quinoa Boom.*  
**2:20** Melissa Bernardo\*, Florida International University, *Grappling with Climate Change in the U.S. Food System: Agricultural Adaptation to Sea Level Rise in South Florida.*  
**Discussant(s):** Karl S. Zimmerer, Pennsylvania State University
- 4429. Urban Remote Sensing from Local to Global Scale (III): Essential Urban Variables and Indicators (Sponsored by Remote Sensing Specialty Group, Human Dimensions of Global Change Specialty Group, Urban Geography Specialty Group)**  
**Room:** *Room 309, Hynes, Third Level* (Paper Session)  
**ORGANIZER(S):** Qihao Weng, Indiana State University  
**CHAIR(S):** Yanhua Xie, Indiana State University  
**1:20** Rynn M Lamb\*, USGS EROS Center; Renee Pieschke\*, Innovate!, Inc., *Remotely Sensed Imagery from USGS: New Products and Services.*  
**1:40** Lei Zhu\*, Seoul National University, *The Detection of Co-pattern Between Nighttime Light and the Prevalence Rate of Breast Cancer of Women in Korea.*  
**2:00** Jing Xu\*, Department of Geography, University of California, Santa Barbara; Alan T. Murray, Department of Geography, University of California, Santa Barbara, *Detection of Nighttime Street Lighting.*  
**2:20** Xue WANG\*, The Chinese University of Hong Kong, *A New Urban Index Based on Multi-sensor Data.*  
**2:40** Yanhua Xie\*, Indiana State University; Qihao Weng, Indiana State University, *Spatiotemporally enhancing time-series DMSP/OLS nighttime light imagery for assessing large-scale urban dynamics.*
- 4430. More than Metaphor: The Urban Frontier and Shifting Strategies of Accumulation 1**  
**Room:** *Room 310, Hynes, Third Level* (Paper Session)  
**ORGANIZER(S):** Josh Akers, University of Michigan-Dearborn; Benjamin F. Teresa, Rutgers University  
**CHAIR(S):** Benjamin F. Teresa, Rutgers University  
**1:20** Natalia Barykina, PhD\*, University of Toronto, *Margarete Schütte-Lihotzky in the Soviet Union: The Rationalization of Children's Spaces in Industrial Cities.*  
**1:40** Pierson Nettling\*, Concordia University, *Living in "No Man's Land": The politics of the metaphor in constructing the New Urbanist foundations of Quartier des Spectacles in Montréal, Québec..*  
**2:00** Susanne Klara Heeg, Goethe University, Institute of Human Geography; Ute Lehrer, York University; Bernd Belina, Goethe University, Institute of Human Geography, *"Good residential areas should be reserved to those people who deserve it!" Property relations and contestations in a suburban municipality of Frankfurt (Germany).*  
**2:20** Josh Akers\*, University of Michigan-Dearborn, *Rebellions, Recessions, Revanchim: Social science and the making of the urban frontier.*  
**Discussant(s):** Robert W. Lake, Rutgers University
- 4431. Vulnerability and resilience to environmental hazards (Sponsored by Hazards, Risks, and Disasters Specialty Group)**  
**Room:** *Room 311, Hynes, Third Level* (Panel Session)  
**ORGANIZER(S):** Thomas Thaler, University of Natural Resources and Life Sciences; Sven Fuchs, University of Natural Resources and Life Sciences  
**CHAIR(S):** Thomas Thaler, University of Natural Resources and Life Sciences  
**Introducer:** Thomas Thaler  
**Discussant(s):** Tim G. Frazier, Binghamton University; Sven Fuchs, University of Natural Resources and Life Sciences; Burrell E. Montz, East Carolina University; Maria Papatoma-Köhle, University of Natural Resources and Life Sciences; Laura Kathryn Siebeneck, University of North Texas
- 4433. Project-Based Learning and Alternative Pedagogies: Part 2 Off-campus opportunities (Sponsored by Qualitative Research Specialty Group, Geography Education Specialty Group, Geography Faculty Development Alliance (GFDA))**  
**Room:** *Room 313, Hynes, Third Level* (Panel Session)  
**ORGANIZER(S):** Melissa Malouf Belz, Worcester Polytechnic Institute  
**CHAIR(S):** Melissa Malouf Belz, Worcester Polytechnic Institute  
**Panelists:** Melissa Malouf Belz, Worcester Polytechnic Institute; Jacqueline A. Housel, Sinclair College; Siobhán McPhee, University of British Columbia; Lynn Roche Phillips, University of Kentucky; Sumanth Reddy, Bowie State University
- 4438. Digital \ Human \ Labour 3: The Algorithmic Labour of Being**  
**Room:** *Independence East, Sheraton, Second Floor* (Paper Session)  
**ORGANIZER(S):** James Thatcher, University of Washington - Tacoma; David O'Sullivan, University of California, Berkeley; Gillian C. Rose, The Open University  
**CHAIR(S):** Gillian C. Rose, The Open University  
**1:20** Will Payne\*, University of California - Berkeley, *Location-Based Services Avant La Lettre: The Zagat Survey and Quantified Lifestyles in 1980s New York.*  
**1:35** Robert Wentrup\*, Centre for International Business Studies, School of Business, Economics and Law, University of Gothenburg; Richard H Nakamura, Centre for International Business Studies, School of Business, Economics and Law, University of Gothenburg, Sweden; Patrik Ström, Centre for International Business Studies, School of Business, Economics and Law, University of Gothenburg, Sweden, *"Uberisation In Paris" - The Clash When The Online Meets The Offline.*  
**1:50** Daniel G. Cockayne\*, University of Waterloo, *Sharing and neoliberal discourse: The economic function of sharing in the digital on-demand economy.*  
**2:05** Sonia Fizek\*, Abertay University, *Playbouring Cyborgs: Renegotiating the human-machine ensembles.*  
**2:20** Luis Felipe Alvarez Leon, Ph.D.\*, USC Sol Price Center for Social Innovation, *Automating Space: Artificial Intelligence, Autonomous Driving, and the New Political Economy of Mapping in the 21st Century.*  
**Discussant(s):** James Thatcher, University of Washington - Tacoma
- 4440. Social Network Analysis in Health Studies (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group, Health and Medical Geography Specialty Group, Uncertainty and Context in Geography and GIScience Featured Theme)**  
**Room:** *Liberty B, Sheraton, Second Floor* (Paper Session)  
**ORGANIZER(S):** Peng Gao, University at Buffalo; Ling Bian, SUNY- Buffalo  
**CHAIR(S):** Peng Gao, University at Buffalo



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**1:20** Kristina Monroe Bishop\*, AAAS, *Use of geographic data to improve HIV testing.*

**1:40** Greg Miller\*, Bucknell University; Madelyne Marie Brown, Bucknell University; Michelle Beiler, Ph.D., P.E., LEED AP, Bucknell University; Janine Glathar, Bucknell University, *GIS Applications to Analyze Transportation Networks, Recreational Land Uses, and Public Health Metrics.*

**2:00** Peng Gao\*, University at Buffalo; Ling Bian, University at Buffalo, *Mitigating epidemics using a network approach.*

**2:20** Alexander Peterson\*, Georgetown University; Tim Frazier, Dr, Georgetown University, *Advancing Risk Assessments by Incorporating Measures of Health Systems, Societal Vulnerability, and Hazards.*

**4441. Validation Methodologies for Agent-based Simulations (Sponsored by Geographic Information Science and Systems Specialty Group, Spatial Analysis and Modeling Specialty Group, Uncertainty and Context in Geography and GIScience Featured Theme)**

**Room:** *Liberty C, Sheraton, Second Floor* (Paper Session)  
ORGANIZER(S): Jeon-Young Kang, SUNY - Buffalo; Jared Aldstadt, University at Buffalo

CHAIR(S): Jeon-Young Kang, SUNY - Buffalo

**1:20** Diem Trinh Le\*, Singapore-MIT Alliance for Research and Technology; P. Christopher Zengras, Massachusetts Institute of Technology; Joseph Ferreira, Massachusetts Institute of Technology, *Modelling Firm Location Choice for Urban Microsimulation.*

**1:40** Susan S Kum, MPH\*, Department of Geography, University at Buffalo, The State University of New York; Mary E Northridge, PhD, MPH, Department of Epidemiology & Health Promotion, NYU College of Dentistry and NYU College of Global Public Health; Sara S Metcalf, PhD, Department of Geography, University at Buffalo, The State University of New York, *A Qualitative Systems Science Approach to Agent-based Model Validation.*

**2:00** Diem-Trinh Le, Singapore/MIT Alliance for Research and Technology (SMART Centre); Jingsi Shaw, MIT; Roberto Ponce Lopez, MIT; Yi Zhu, Shanghai JiaoTong University; Mi Diao, National University of Singapore (NUS); Chris Zengras, MIT; Joseph Ferreira\*, MIT, *Integrating Activity-based Accessibility into Land Use Modelling.*

**2:20** Patrick Bitterman\*, University of Iowa; David A Bennett, University of Iowa, *Locked in: modeling resilience, adaptability, and alternative futures in a tightly-coupled agro-social-ecological system.*

**2:40** Jared Aldstadt, University at Buffalo; Jeon-Young Kang, University at Buffalo, *Using Spatial Statistics for Validation of Agent-based Models: The Case of Dengue Virus Transmission.*

**4442. Palestinian resistance**

**Room:** *Back Bay Ballroom A, Sheraton, Second Floor* (Paper Session)

ORGANIZER(S): Mark Griffiths, Northumbria University; Mikko Joronen, Space and Political Agency Research Group (SPARG), University of Tampere  
CHAIR(S): Mikko Joronen, Space and Political Agency Research Group (SPARG), University of Tampere

Introducer: Mikko Joronen

**1:30** Osama Amer Abdl-Haleem\*, University of Kentucky, *The Place that is Palestine.*

**1:45** Una McGahern\*, Newcastle University, *Protesting at the Crossroads: Public space deficits and the use of non-iconic sites of protest in Israel.*

**2:00** Tom Brocket\*, University College London, *Naming the streets Palestinian: Ramallah's street (re)naming project and its relationship with Palestinian resistance.*

**2:15** ANNE HERTZOG\*, University of CERGY PONTOISE,

*Resisting occupation and fragmentation : museums as places of cultural resistance in Palestine.*

**2:30** Mark Griffiths\*, Northumbria University, *Hope in Hebron: the political affects of activism in a strangled city.*

**2:45** Sanaa Alsarghali\*, Lancaster University/An-Najah University, *The role of Palestinian Women in state building through everyday resistance.*

**4443. Exploring the Modular, Material and Performative Politics of Security (3) (Sponsored by Political Geography Specialty Group)**

**Room:** *Back Bay Ballroom B, Sheraton, Second Floor* (Panel Session)

ORGANIZER(S): Peter Forman, University of Durham;

Nathaniel O'grady, Durham University

CHAIR(S): Peter Forman, University of Durham

Discussant(s): Philip E. Steinberg, Durham University

Panelists: Louise Amooore, Durham University; Peter Forman, University of Durham; Peter Adey, Royal Holloway, University of London; Nathaniel O'grady, Durham University; Kimberley Peters, University of Liverpool

**4448. Modernity, Space and Gender 1 (Sponsored by Geographic Perspectives on Women Specialty Group)**

**Room:** *Beacon D, Sheraton, Third Floor* (Paper Session)

ORGANIZER(S): Alexandra Staub, Pennsylvania State University

CHAIR(S): Alexandra Staub, Pennsylvania State University

**1:20** Maria Mesner, Dr.\*, University of Vienna, *Different Modernities: Family Models and Vienna's Social Housing Policies 1950-1980.*

**1:40** Irene Molina\*, Institute for Housing and Urban Research, Uppsala University, *The gender-space nexus in Swedish modern planning.*

**2:00** Kirsi Saarikangas\*, University of Helsinki, *Modern Nordic Home and Gender. Architecture, Planning Ideals and Lived Spaces.*

**2:20** Alexandra Staub\*, Pennsylvania State University, *Gender Constructs and the Commercialization of Modern Living.*

Discussant(s): Eda Acara, Middle East Technical University, Urban Policy Planning and Local Governments

**4449. Fluvial Forms and Processes I (Sponsored by Geomorphology Specialty Group)**

**Room:** *Beacon E, Sheraton, Third Floor* (Paper Session)

ORGANIZER(S): Kory M. Konsoer, Louisiana State University; Inci Guneralp, Texas A&M University

CHAIR(S): Kory M. Konsoer, Louisiana State University

**1:20** Katherine B Lininger\*, Department of Geosciences, Colorado State University; Ellen Wohl, PhD, Department of Geosciences, Colorado State University; Joshua Rose, U.S. Fish and Wildlife Service, Region 7 I&M, *Floodplain organic carbon storage in the central Yukon River Basin.*

**1:40** Zhiwei Li\*, School of Hydraulic Engineering, Changsha University of Science & Technology; Peng Gao, Department of Geography, Maxwell School of Citizenship and Public Affairs, Syracuse University, *Fluvial responses of two meandering bends to an artificial neck cutoff in a tributary of the Upper Yellow River of China.*

**2:00** Marena Grondin\*, Louisiana State University; Kory Konsoer, Louisiana State University, *Hydraulic Width Variability of Meandering River Channels.*

**2:20** Jonathan W.F. Remo\*, Southern Illinois University, Carbondale; Julia Ryerd, Southern Illinois University, Carbondale, *Quantifying Geomorphic Rates of Change within the Batture Lands of the Middle Mississippi River, USA.*

**2:40** Bartosz Grudzinski\*, Miami University; Marvin Jojola, New Mexico State University; David Kist, Miami University, *Beaver habitat selection and impacts on*



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*sediment and nutrient concentrations in a southwestern Ohio stream.*

**4450. Linguistic Geography 1 (Sponsored by Cultural Geography Specialty Group, Environmental Perception and Behavioral Geography Specialty Group, Communication Geography Specialty Group)**

*Room:* Beacon F, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Catherine E. Lee, University of Hawaii at Manoa

CHAIR(S): Catherine E. Lee, University of Hawaii at Manoa

**1:20** Shunfu Hu\*, Southern Illinois University Edwardsville, *Web-based Multimedia Mapping for the Spatial Analysis and Visualization of Endangered Languages in the Himalayan Mountains.*

**1:40** Nazgol Bagheri, Dr.\*, University of Texas at San Antonio; Stevel L Driever, Dr., University of Missouri-Kansas City, *Geographic Patterns of Language and Bilingualism in the United States.*

**2:00** Randi E. Moore\*, University at Buffalo, SUNY, *Landscape and Spatial Reference: Variation across three communities of Isthmus Zapotec speakers.*

**2:20** Catherine E. Lee\*, University of Hawaii at Manoa, *Discourse Analysis of a Landscape Ontology Elicitation Exercise in Hawai'i.*

**2:40** David M. Mark\*, University at Buffalo; Niclas Burenhult, Lund University, *Geographical Features and Elementary Concepts: Problems with Chomsky's Notion of 'River'.*

**4453. Geographies of Coal**

*Room:* Dalton A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Kevin P. Martyn, University of South Florida

**1:20** Nikki Luke\*, University of Georgia, *Defaulting on a post-coal future: tracing the geography of coal company bankruptcy, reclamation, and the movement for a just transition.*

**1:40** Mukul Kumar\*, University of California, Berkeley, *Governing Coal: Land, Displacement, and the Concept of Waste in South India.*

**2:00** JAY DAVID EMERY\*, University of Leicester, *Geographies of De-industrialization: Memory and Affect in the British Coalfields.*

**2:20** Kevin P. Martyn\*, University of South Florida, *How Mature Capitalism Turns Pollution into Diamonds: Malagnotogenesis and the Reverse-Engineering of Harm into Risk.*

**4455. Social Equity, Environmental Justice and Urban Water Systems (Sponsored by Water Resources Specialty Group)**

*Room:* Hampton A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Elizabeth Mack, Michigan State University; Sharon Harlan, Northeastern University

CHAIR(S): Elizabeth Mack, Michigan State University

**1:20** Kyle Redican\*, Department of Geography (Geography Building), *Socio-Economic Impacts of Water Pricing using Scenario Based Modeling.*

**1:40** Sharon Harlan, PhD, Northeastern University; Elizabeth Mack, PhD, Michigan State University; Stephanie Clark\*, Northeastern University, *Systematic review of peer-reviewed literature on urban water pressures and environmental justice in the United States, 1976-2016.*

**2:00** Mariana Sarango, MPH\*, Northeastern University, *Flood Risk Exposure and Environmental Justice: Are Some Groups Disproportionately Affected?*

**2:20** Elizabeth Mack\*, Michigan State University; Sarah Wrase, Michigan State University, *Perspectives on Water Affordability for U.S. Households.*

**4456. Environmental changes in China-1 (Sponsored by China Specialty Group)**

*Room:* Hampton B, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Xiaobo Su, University of Oregon

CHAIR(S): Du Yueyue

**1:20** Xiangdong Zhu\*, *The Decomposition of Industry Pollution Under Environmental Regulation in China.*

**1:40** Gangfeng Zhang\*, Beijing Normal University; Peijun Shi, Beijing Normal University, *Change of near surface max wind speed in China during 1975-2014.*

**2:00** Yuanyuan Yang\*, Institute of Geographic Sciences and Natural Resources, Chinese Academy of Sciences; Shuwen Zhang, Northeast Institute of Geography and Agroecology, Chinese Academy Sciences; Yansui Liu, College of Resources Science and Technology, Beijing Normal University, *Historical reconstruction of spatial distribution of land use/land cover in the early reclaimed time of Northeast China??Based on the HLURM model.*

**2:20** Du Yueyue\*, *Spatial-temporal characteristics of the PM2.5 of Chinese cities in 2015.*

**4457. Land use change in China-1 (Sponsored by China Specialty Group)**

*Room:* Gardner A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Xiaobo Su, University of Oregon

CHAIR(S): Songxue Liu, Peking University

**1:20** Yurui Li\*, Institute of Geographic Sciences and Natural Resources Research, CAS, *Spatial pattern and influencing factors of the China's urbanization development at county level: A quantitative analysis based on 2000 and 2010 census data.*

**1:40** Wenhuan Wu\*, Jian Peng, *Using different time series data to detect vegetation change trends in China.*

**2:00** Yi'na Hu\*, Jian Peng, Peking University, *A new approach for urban-rural fringe identification: Integrating impervious surface area and spatial continuous wavelet transform.*

**2:20** Run Wang\*, Bo Wan, *Mapping Regional Urban Extent using NPP-VIIRS DNB and MODIS NDVI Data.*

**2:40** Jian Lin, Peking University; Songxue Liu\*, Peking University; Yajie Fu, Peking University; Junhui Liang, Peking University, *Research on the Ecological Effects of Land Use in Towns of the Less-Developed Regions of Western China: The Case of Yuzhong in Gansu Province.*

**4458. Place and Region in Geography Education**

*Room:* Gardner B, Sheraton, Third Floor (Panel Session)

ORGANIZER(S): Thomas Larsen, Kansas State University; John A. Harrington, Kansas State University

CHAIR(S): John A. Harrington, Kansas State University

Panelists: Sarah Witham Bednarz, Texas A&M University;

David J. Rutherford, University of Mississippi;

Audrey Mohan, BSCS; Thomas Larsen, Kansas State

University; Eleanor M. Rawling, University of Oxford

**4459. Agricultural Geography and Land Engineering**

*Room:* Fairfax A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Yuheng Li, Chinese Academy of Sciences

CHAIR(S): Yuheng Li, Chinese Academy of Sciences

**1:20** Yifan Wu\*, Beijing Normal University, *Research on the Spatial-temporal Difference of Coordinated Development Between Demographic Urbanization and Landscape Urbanization in China.*

**1:36** Jin-Tao Li\*, Beijing Normal University, *Land Use Change and Effects Analysis of Tideland Reclamation in Hangzhou Bay.*

**1:52** Zongfeng Chen\*, Beijing Normal University, *The Distribution Characteristic and Mechanism of Rural Settlements in Loess Hilly Region ??a case study of Baota District of Yan'an city.*

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**2:08** Jia Linrui\*, Beijing Normal University, *Analysis of Land Use Changes and Driving Forces in Traditional Plain Agricultural Areas In the Process of Rapid Urbanization.*

**2:24** Dazhuan Ge\*, Dazhuan Ge, *Pattern and coupling relationship between grain production and agricultural labor changes at county level in China.*

**2:40** Allen Fung\*, Beijing Normal University, *Research on techniques of rapidly improving the quality of newly-increased cultivated land after 'Gully Land Consolidation' project in loess hilly-gully region.*

**4460. Book Panel: Local and Regional Development 2nd Edition (Sponsored by Economic Geography Specialty Group)**

**Room:** Fairfax B, Sheraton, Third Floor (Panel Session)

ORGANIZER(S): Peter O'Brien

CHAIR(S): Andy Pike, Newcastle University

Introducer: John Tomaney

Discussant(s): Henry Wai-chung Yeung, National University of Singapore; Michael Storper, UCLA

Panelists: Niamh M. Moore-Cherry, University College, Dublin; Jen Nelles, Hunter College, CUNY; Flavia Martinelli, Dipt. Architettura e Territorio - Università Mediterranea di Reggio Calabria

**4461. Financialization as a State Project 3: On sovereignty and second circuits (Sponsored by Urban Geography Specialty Group, Economic Geography Specialty Group)**

**Room:** Jefferson, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Caroline Sage Ponder, University of British Columbia; Mikael Omstedt, University of British Columbia

CHAIR(S): Caroline Sage Ponder, University of British Columbia

**1:20** Reijer Hendrikse\*, Vrije Universiteit Brussels, *Taking the Financialization of the State to its Extremes: Theorizing Sovereign Finance.*

**1:40** Renee Tapp\*, Clark University, *Reviving Value: tax credits, architectural preservation, and the state.*

**2:00** Luciana De Oliveira Royer, Professor\*, University of São Paulo; Maria Beatriz Cruz Rufino, Professor, University of São Paulo- Facult of Architecture and Urbanism, *Space production as a state-led financialization process: from real estate to urban projects in the city of São Paulo.*

**2:20** Dennis Christoph Stolz\*, National University of Singapore; Felix Mallin, National University of Singapore & King's College London, *Of Sustainable Development and Spatial Fixes: Exploring the State-Finance Nexus in Kiribati and Singapore.*

**2:40** Katharine L. Nelson\*, Rutgers University, *The DASP Program: Do HUD's auctions offer new possibilities to borrowers or deprive them due process?.*

**4462. Population change: forecasts, new spatial units, and loss (Sponsored by Population Specialty Group)**

**Room:** Kent, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Christopher S. Fowler, Pennsylvania State University

CHAIR(S): Deane R. Lycan, Portland State University

**1:20** Thomas J. Christoffel, AICP, FeRSA\*, *Regional Intelligence-Regional Communities, LLC, 2020 Census Challenge: A Functional Sub-State Region/Regional Council Data Set for Research, Policy and Programming in the U.S..*

**1:40** Jessica Bradley\*, Temple University; Lee Hachadoorian, PhD, Temple University, *Creating Multiyear Census Geography Layers from Multiple ACS Vintages.*

**2:00** Torsten Schunder\*, University at Buffalo, *Social Space and Population Loss.*

**2:20** James D. Fitzsimmons\*, U.S. Census Bureau, *Recent Change in U.S. Micropolitan Statistical Areas.*

**2:40** D. Richard Lycan\*, Portland State University, *Two*

*Population Forecasting Models for Portland Oregon.*

**4463. Livelihood Possibilities in Changing Environments (Sponsored by Cultural and Political Ecology Specialty Group, Human Dimensions of Global Change Specialty Group, Development Geographies Specialty Group)**

**Room:** Commonwealth, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Jamie Shinn, West Virginia University; Brian King, Pennsylvania State University

CHAIR(S): Jamie Shinn, West Virginia University

**1:20** Brian King\*, Pennsylvania State University, *Managed HIV in a Changing World.*

**1:40** Costanza Rampini, Ph.D. Candidate, Environmental Studies Dpt., UC Santa Cruz, *Hydropower development along the Brahmaputra River: Reshaping local communities' adaptive capacity to floods..*

**2:00** Laurel Bellante\*, University of Arizona, *Farming in uncertain times: Farmer struggles to compete and adapt in the context of neoliberalism and environmental change in Chiapas, Mexico.*

**2:20** Sameer Hemant Shah\*, University of British Columbia; Courtney Hammond Wagner\*, University of Vermont; Lia Helena Demange, University of São Paulo; Carolina Gueiros, Oxford University; Hogeun Park, Michigan State University; Udit Sanga, Michigan State University, *Modelling adaptation and vulnerability to climatic stressors from the "ground-up": A case of smallholder agriculturalists across Northern India..*

**2:40** Eva A. Papaioannou\*, Rutgers University; Kevin St. Martin, Rutgers University - Piscataway, NJ, *Coastal fishing communities perceptions and responses to shifts in species distribution.*

**4464. Into the Void III: Supernatural (Sponsored by Cultural Geography Specialty Group)**

**Room:** Boylston, Marriott, First Floor (Paper Session)

ORGANIZER(S): Paul T. Kingsbury, Simon Fraser University; Anna J Secor, University of Kentucky

CHAIR(S): Anna J Secor, University of Kentucky

Introducer: Paul T. Kingsbury

**1:25** John Paul Jones III\*, University of Arizona, *Sedona's Energy Vortexes.*

**1:40** Carmen Antreasian, M.A., *The Vaginal Void: A feminist psychoanalytic discussion.*

**1:55** Oliver Keane\*, *The Sublime Objects of Cryptozoology.*

**2:10** Paul T. Kingsbury\*, Simon Fraser University; Hilda M Fernandez Alvarez, Simon Fraser University; Noel A Hawkins, Simon Fraser University, *Negation and the paradoxical spaces of paranormal investigations.*

Discussant(s): Anna J Secor, University of Kentucky

**4465. Marketing Air Rights: urban solution or 'zoning for sale'? Tremont, Marriott, First Floor (Paper Session)**

ORGANIZER(S): Hung-Ying Chen, Durham University; Sai Balakrishnan; Lisa Bjorkman

CHAIR(S): Lisa Bjorkman

**1:20** Sai Balakrishnan\*, Harvard University; Daniel Foster, Harvard University, *Terra Firma And Air Rights Politics: The Case Of Boston.*

**1:40** Mi Shih\*, Rutgers University, *What Does Transfer of Development Rights (TDR) Do? A Comparative Perspective.*

**2:00** Hung-Ying Chen\*, Durham University; Hung-ying Chen, *Cashing in on the Sky: Instrumentation of Air Rights in Taipei.*

**2:20** Lisa Bjorkman\*, University of Louisville, *Floor Space Index: the material life of an algorithm in Mumbai.*

Discussant(s): Kathe Newman, Rutgers University

**4467. Best Practices for Teaching in a Web-based Learning Environment (Sponsored by AAG Careers and Professional**

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## Development Theme, Geography Education Specialty Group, Community College Affinity Group)

Room: Columbus 2, Marriott, First Floor (Panel Session)

ORGANIZER(S): Katsuhiko Oda, University of Southern California

CHAIR(S): Katsuhiko Oda, University of Southern California  
Discussant(s): Sarah Goggin

Panelists: Katsuhiko Oda, University of Southern California;  
Jonathan Wessell, Grand Valley State University;  
Jonathan M. Harbor, Purdue University; Jane  
Thorngren, San Diego State University; Angie E.  
Wood, Chattanooga State Community College; Dawn  
Hawley, NORTHERN ARIZONA UNIVERSITY;  
Rachel Harrell, Lone Star College - University Parks

## 4468. Energy Transitions Research: Current Status and Future Directions (Sponsored by Energy and Environment Specialty Group)

Room: St. Botolph, Marriott, Second Floor (Panel Session)

ORGANIZER(S): Jennie C. Stephens, Northeastern University;  
Kathleen Araujo, SUNY - Stony Brook

CHAIR(S): Jennie C. Stephens, Northeastern University

Panelists: Laurence Delina, Boston University/Rachel Carson  
Center at LMU Munich; Jennie C. Stephens,  
Northeastern University; Kathleen Araujo, SUNY -  
Stony Brook; Thomas Webler, Keene State College

## 4469. Symposium on Human Dynamics in Smart and Connected Communities: Whither 'human dynamics' within geography? (Sponsored by Geographic Information Science and Systems Specialty Group)

Room: Regis, Marriott, Third Floor (Panel Session)

ORGANIZER(S): May Yuan, University of Texas - Dallas

CHAIR(S): David O'Sullivan, University of California, Berkeley  
Discussant(s): Renee Sieber, McGill University; May Yuan,  
University of Texas - Dallas

Panelists: Luke R. Bergmann, University of Washington;  
Kathleen Stewart, University of Maryland; Carson J.  
Q. Farmer, University of Colorado

## 4470. Geographical Dimensions of Migration

Room: Northeastern, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Zengwang Xu, University of Wisconsin - Milwaukee  
1:20 Peride Zurikashvili\*, *Georgian migrants in the USA.*

1:40 Julia Blocher\*, Hugo Observatory, University of Liege/  
United Nations University; Dalila Gharbaoui, Hugo  
Observatory, University of Liege / Macmillan  
Brown Center, University of Canterbury, *Bifurcated  
Communities, Loss of Land, and Limits to Adaptation  
to Climate Change: Evidence from Relocations in  
Papua New Guinea and Fiji.*

2:00 Zengwang Xu\*, University of Wisconsin Milwaukee;  
Gainbi Park, University of Wisconsin Milwaukee,  
*Temporal Dynamics of Age Net Migration Patterns of  
Counties in the United States 1950-2010.*

## 4471. Critical Perspectives on Mobility Safety (Sponsored by Ethics, Justice, and Human Rights Specialty Group, Transportation Geography Specialty Group)

Room: Brandeis, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Denver V. Nixon, University of British  
Columbia; Do Lee, The Graduate Center, CUNY

CHAIR(S): Denver V. Nixon, University of British Columbia  
Introducer: Denver V. Nixon

1:25 Tauri Tuvikene\*, Tallinn University, *(Un)visible Citizens  
of Urban Mobility: The History and Use of Pedestrian  
Safety Reflectors in Estonia.*

1:45 Melody Hoffmann\*, Anoka Ramsey Community College;  
Annika Kmiecik, MPH, Minneapolis Bicycle  
Coalition, *Policed while biking: Bicycle-related  
citations and arrests in Minneapolis, 2009-2016.*

2:05 Claudio Alberto Sarmiento-Casas\*, University of Toronto,  
*The physical and social unsafety of cycling policies in  
the Global South.*

2:25 Do Lee\*, The Graduate Center, CUNY, *Consuming Pain:  
Producing Unsafe Environments for Food Delivery  
Cyclists in New York City.*

## 4472. Participation in Marine Ecosystem-Based Management 2

Room: MIT, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Aria Ritz Finkelstein, MIT; Wesley Flannery  
CHAIR(S): Aria Ritz Finkelstein, MIT

1:20 Will McClintock, Ph.D.\*, University of California  
Santa Barbara; Grace Goldberg, M.S., University  
of California Santa Barbara, *Effective Stakeholder  
Engagement with a Web-Based Decision Support Tool.*

1:40 Sarah Twomey, BSc; PgDip; MA; PhD Candidate\*, MaREI  
Centre, University College CORK; O'Mahony Cathal,  
MaREI Centre, University College CORK; Valerie  
Cummins, Dr., MaREI Centre, University College  
CORK, *Multi-Sector Stakeholder Participation in  
Transboundary Marine Ecosystem Management:  
Lessons from the European Atlantic..*

2:00 Jennifer L Whytlaw, GISP\*, Rutgers University; Matthew  
Campo, Rutgers University; Henry Mayer, PhD,  
Rutgers University, *Stakeholder Engagement and  
Customizable Data Access: a case study in Norfolk,  
Virginia..*

2:20 Syma A Ebbin, PhD, University of Connecticut; Nathaniel  
Trumbull, PhD, University of Connecticut, *Navigating  
Change in the Urban Sea: exploring the challenges  
and opportunities for marine spatial planning in Long  
Island Sound.*

2:40 Andreas Skriver Hansen\*, University of Gothenburg,  
*Managing outdoor recreation in coastal-marine  
national parks - experiences and challenges from  
Sweden and Norway.*

## 4473. Critical Worldbuilding 1: Thinking fictional worlds through critical geography (Sponsored by Cultural and Political Ecology Specialty Group, Cultural Geography Specialty Group, Communication Geography Specialty Group)

Room: Boston University, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Jeffrey Vance Martin, University of California  
- Berkeley; Gretchen Leigh Sneegas, University of  
Georgia

CHAIR(S): Jeffrey Vance Martin, University of California -  
Berkeley

1:20 Armando Garcia Chiang\*, Universidad Autonoma  
Metropolitana, Iztapalapa, *The Road To Mordor.  
Landscape And Territory In The Epic High-Fantasy  
Novel.*

1:40 Kolson Schlosser\*, Temple University, *A Psychotopological  
Reading of Anne Rice's Vampire Chronicles.*

2:00 Tony Colella, MFA\*, University of Arizona, *Biogeographic  
Principles in the Pokemon Franchise: Possibilities for  
Geographic Education.*

2:20 Travis William McKay Roberts\*, *Fantasy's First Contact:  
Colonial Legacies and Speculative Fiction.*

## 4474. EESG Plenary Talk: Crude residues (Sponsored by Energy and Environment Specialty Group)

Room: Simmons, Marriott, Third Floor (Panel Session)

ORGANIZER(S): Jennifer Baka, Pennsylvania State University

CHAIR(S): Jennifer Baka, Pennsylvania State University

Panelist: Monica M. Salas

## 4475. Symposium on Human Dynamics in Smart and Connected Communities: Spatial-Social Networks in GIS 8 (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group, Spatial Analysis and Modeling Specialty Group)

Room: Suffolk, Marriott, Third Floor (Paper Session)



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- ORGANIZER(S): Xinyue Ye, Kent State University; Xingjian Liu, University of Hong Kong; Clio Andris
- CHAIR(S): Thomas Stieve, University of Arizona - Geography & Development
- 1:20** Kok-Chhay Ly\*, Kent State University, *Empirical Analysis in The Cambodian Genocide: A Spatial Network Analysis of Confessions and Arrests under Khmer Rouge*.
- 1:40** Thomas Stieve\*, University of Arizona - Geography & Regional Development, *The Global Consciousness Index*.
- 2:00** Samuel D Blanchard, MA, MCP\*, University of California, Berkeley; Paul Waddell, MS, PhD, University of California, Berkeley, *UrbanAccess: A Generalized Methodology for Measuring Regional Accessibility with an Integrated Pedestrian and Transit Network*.
- 2:20** Shiran Zhong\*, Department of Geography, University at Buffalo, the State University of New York; Ling Bian, Department of Geography, University at Buffalo, the State University of New York, *Mining temporal association between locations in disease networks*.
- 2:40** Ahmed Hassan Almurshidi\*, Morgan State University; Hyeonshic Shin, Morgan State University; Mansoureh Jeihani, Morgan State University, *Emergency Facilities Planning: Case Study on Northern Emirates of United Arab Emirates*.

**4476. Rural Geography Awards 3: "Lifetime Achievement Award" paper session honoring John Hudson (Sponsored by Rural Geography Specialty Group, Geographies of Food and Agriculture Specialty Group)**

Room: Wellesley, Marriott, Third Floor (Paper Session)

- ORGANIZER(S): Christopher R. Laingen, Eastern Illinois University
- CHAIR(S): Christopher R. Laingen, Eastern Illinois University
- 1:20** Christopher R. Laingen\*, Eastern Illinois University, *American Farms, American Food*.
- 1:40** Dawn M. Drake\*, Missouri Western State University, *The Changing Nature of Agriculture at the Rural-Urban Fringe*.
- 2:00** Roger F. Auch\*, United States Geological Survey-EROS Center, *The Persistence and Monitoring of Conservation Reserve Program Land in Montana's "Hi-Line" Country (Northwestern Glaciated Plains Ecoregion), 1986-2015*.
- 2:20** Susy Svatek Ziegler\*, Northern Michigan University, *The Sweet Geography of Maple in Michigan*.
- 2:40** John C. Hudson\*, Northwestern University, *Contrasting Geographies of Grainfed and Grassfed Beef Production in the United States*.

**4477. What's School Got to Do with It?: Race, Resistance, and a Call for Critical Geographies of Education I (Sponsored by Political Geography Specialty Group, Cultural Geography Specialty Group, Ethnic Geography Specialty Group)**

Room: Harvard, Marriott, Third Floor (Panel Session)

- ORGANIZER(S): Nicole Nguyen, University of Illinois - Chicago; Dan Cohen, University of British Columbia; Alice Huff, 1976
- CHAIR(S): Nicole Nguyen, University of Illinois - Chicago
- Discussant(s): Nicole Nguyen, University of Illinois - Chicago
- Panelists: Katharyne Mitchell, University of Washington; Ranu Basu, York University; Pauline Lipman, University of Illinois - Chicago; Thomas Pedroni

**4479. Land Change 7: Mapping and Measuring Change (Sponsored by Cultural and Political Ecology Specialty Group, Remote Sensing Specialty Group, Human Dimensions of Global Change Specialty Group)**

Room: Arlington, Marriott, Third Floor (Paper Session)

- ORGANIZER(S): Richard J. Aspinall
- CHAIR(S): Sam Hooper, Oregon State University

- 1:20** Feilin Lai\*, Florida State University; Xiaojun Yang\*, Florida State University, *Integrating Satellite Imagery and Ancillary Data to Improve Land Mapping in an Urban Area*.
- 1:40** Qian Lei\*, University of Connecticut, *Land use classification for buildings using remote-sensing and parcel data*.
- 2:00** Chen Zeng\*, *Management of urban land expansion in China through intensity assessment: A big data perspective*.
- 2:20** Shrobona Karkun\*, Temple University, *Urban Growth and Green Spaces : Using remote sensing to visualize a challenging relationship in Delhi Metropolitan region..*
- 2:40** Sam Hooper\*, Oregon State University; Robert Kennedy, Oregon State University, *Global Patterns from Local Signals: Novel Methods for Predicting a Continental-Scale Land Cover Time Series*.

**4480. Interworking of Colonialism and Capitalism I**

Room: Berkeley, Marriott, Third Floor (Panel Session)

- ORGANIZER(S): Vanessa Sloan Morgan, Queen's University; Michelle D. Daigle, University of British Columbia; Michael P C Krebs, University of British Columbia
- CHAIR(S): Vanessa Sloan Morgan, Queen's University
- Panelists: Maegan Miller, CUNY - Graduate Center; Margaret Marietta Ramirez, University of Washington, Seattle; Glen Coulthard, University of British Columbia; Megan Ybarra, University of Washington; Deborah Cowen, University of Toronto

**4481. Framing urban sustainability: Smart, efficient, green, or just 2 (Sponsored by Human Dimensions of Global Change Specialty Group, Regional Development and Planning Specialty Group, Urban Geography Specialty Group)**

Room: Clarendon, Marriott, Third Floor (Paper Session)

- ORGANIZER(S): Heather Sander, University of Iowa; Peleg Kremer, Villanova University
- CHAIR(S): Heather Sander, University of Iowa
- 1:20** Robert Hibberd\*, University of Arizona - Geography & Regional Development, *Sustainable Development in Chicago: Smart Growth & Other Paradigms*.
- 1:40** Daniel Trudeau\*, Macalester College, *New Urbanism as Sustainable Development Strategy: Whither Equity?*.
- 2:00** Xi Qiu, MIT, *Can building new towns reform china's housing model? An investigation of urban morphology, development history, and social perceptions in Liangzhu Cultural Village, Hangzhou, China*.
- 2:20** SARA SABOONIAN, PhD Student, M.Sc., MArch\*, University of Waterloo, *Seeking Compatibility between Recentralization and Green Infrastructure*.
- Discussant(s): Heather Sander, University of Iowa

**4482. Spatializing Race II: Dismantling structures and stretching intellectual exchanges**

Room: Dartmouth, Marriott, Third Floor (Panel Session)

- ORGANIZER(S): Beverley Mullings, Queen's University; Rupal Oza, CUNY - Graduate Center; Patricia Noxolo, School of Geography, Earth and Environmental Sciences
- CHAIR(S): Patricia Noxolo, School of Geography, Earth and Environmental Sciences
- Introducer: AbdouMaliq Simone
- Discussant(s): Arun Saldanha, University of Minnesota - Minneapolis
- Panelists: LaToya Eaves, Middle Tennessee State University; Jason K. Lim, University of Brighton; Sharad Chari, University of the Witwatersrand

**4483. Geographies of Slow Violence 3: Neoliberal Dispossession**

Room: Exeter, Marriott, Third Floor (Paper Session)

- ORGANIZER(S): Rachel Pain, University Of Durham; Caitlin Cahill, Pratt Institute



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CHAIR(S): Caitlin Cahill, Pratt Institute

**1:20** Caitlin Cahill\*, Pratt Institute, *"You fit the description": Slow accumulation, collective struggle, and young people's experiences of everyday policing in gentrifying NYC.*

**1:40** Daniela Aiello\*, University of Georgia, *Evictions as a Colonial Project: Race and Displacement in Atlanta and Vancouver.*

**2:00** Jasmine Arpagian\*, San Diego State University; Stuart Aitken, San Diego State University, *"Slow Violence" and Dispossession: Restitution of Nationalized Properties in Romania.*

**2:20** Rachel Pain\*, University Of Durham, *Housing Disposal and Chronic Urban Trauma.*

**2:40** Christopher Harker\*, *Financial crisis ordinariness: Endurance in Ramallah, Palestine.*

**4484. A Transatlantic Comparative View on Local Policies towards Migrants (Sponsored by Political Geography Specialty Group, Ethnic Geography Specialty Group)**

*Room:* Fairfield, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Birgit Ursula Glorius, TU Chemnitz; Jeroen Doornik, University of Amsterdam

CHAIR(S): Birgit Ursula Glorius, TU Chemnitz

**1:20** Felicitas Barbara Hillmann, Prof. Dr\*, Leibniz-Institute for Research on Society and Space, *Fragile connections in transnational space: the relevance of the Ghanaian Diaspora for urban regeneration and resilience at home.*

**1:37** Jan Winkler\*, Friedrich Alexander University Erlangen-Nürnberg, Germany; Georg Glasze, Prof. Dr., Friedrich-Alexander-Universität Erlangen-Nürnberg, *"Nowadays, you have to know a lot about Religion": The constitution of the "Muslim Migrant" in local integration policies in Germany.*

**1:54** Galya Ruffer\*, Northwestern University, *Federal and local policy responses to national decisions of refugee resettlement and relocation in the United States and Germany.*

**2:11** Jeroen Doornik\*, University of Amsterdam, *Dealing with the undocumented: comparative reflections on practices in the US and the EU.*

**2:26** Paul N. McDaniel\*, Kennesaw State University; Darlene Xiomara Rodriguez, Kennesaw State University; Qingfang Wang, University of California, Riverside, *Multiscalar Processes of Immigrant Integration and Receptivity in Welcoming Cities.*

**2:43** David Radford, PhD\*, University of South Australia, *The importance of local government leadership in implementing policies of multiculturalism, managing diversity and promoting integration in South Australia.*

**4485. Graduate Student Health and Wellbeing: A Frank Discussion III (Sponsored by AAG Careers and Professional Development Theme, Paleoenvironmental Change Specialty Group, Graduate Student Affinity Group, Health and Medical Geography Specialty Group)**

*Room:* Salon H, Marriott, Fourth Floor (Panel Session)

ORGANIZER(S): Matthew T. Kerr, The University of Tennessee

CHAIR(S): Matthew T. Kerr, The University of Tennessee

Introducer: Matthew T. Kerr

Discussant(s): Austin Kocher, The Ohio State University, Department of Geography; Amelia Sosnowski, University of Texas - Austin

Panelists: Johanna C. Jokinen, Uppsala University; Ryan Zachary Good, University of Florida; Savannah Collins, University of Tennessee; Peter Wood, Universidade Federal De Minas Gerais

**4486. Trees in the City 2: Urban Forest Stewardship, Policy and Program Impacts (Sponsored by Cultural and Political Ecology Specialty Group, Human Dimensions of Global**

**Change Specialty Group, Urban Geography Specialty Group)**  
*Room:* Salon I, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Shawn Landry, University of South Florida; Tenley Conway, University of Toronto- Mississauga

CHAIR(S): Shawn Landry, University of South Florida

**1:20** Amber Grant, MASc Candidate\*, Environmental Applied Science & Management and Urban Forest Research & Ecological Disturbance (UFRED) Group, Ryerson University; Andrew A Millward, PhD, Ryerson University, Geography and Environmental Studies; Sara Edge, PhD, Ryerson University, Geography and Environmental Studies, *Encouraging urban forest stewardship through digital storytelling.*

**1:40** Andrew D. Almas\*, University of Toronto; Tenley M. Conway, Dr., University of Toronto Mississauga, *Do residents care about native species?: Resident attitudes and actions towards native trees in Carolinian Canada.*

**2:00** Katherine Ralston\*, University of Maryland, Baltimore County, *Baltimore Forest Stewards: Visions and Motivations.*

**2:20** Christopher S. Greene, PhD\*, Dalhousie University; Pamela Robinson, PhD, Ryerson University; Andrew A. Millward, PhD, Ryerson University, *Canopy of Advantage: Who Benefits Most From City Trees?.*

**2:40** Emily Bukowski\*, Syracuse University, *Dutch elm disease in Syracuse, NY.*

**4487. "A World of Islands"-- Archipelagic Studies (Sponsored by Political Geography Specialty Group, Cultural Geography Specialty Group, Historical Geography Specialty Group)**

*Room:* Salon J, Marriott, Fourth Floor (Panel Session)

ORGANIZER(S): Jenny R. Isaacs, Rutgers University; Kyle McAuley, Rutgers University

CHAIR(S): Jenny R. Isaacs, Rutgers University

Introducer: Jenny R. Isaacs

Panelists: Jenny R. Isaacs, Rutgers University; Sasha Davis, Keene State College; Elizabeth DeLoughrey, UCLA; Jonathan Pugh, Newcastle University, UK; Kyle McAuley, Rutgers University

**4488. Phenological Research (Sponsored by Climate Specialty Group)**

*Room:* Salon K, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Mark D. Schwartz, University Of Wisconsin-Milwaukee

CHAIR(S): Mark D. Schwartz, University Of Wisconsin-Milwaukee

**1:20** Shuai An\*, Xiaoyang Zhang; Xiaoqi Chen; Dong Yan; Geoffrey M. Henebry, *An Exploration of Terrain Effects on Land Surface Phenology across the Qinghai-Tibetan Plateau Using Landsat ETM+ and OLI Data.*

**1:40** Lingling Liu\*, GSCE; Xiaoyang Zhang, GSCE, *Real-time monitoring and short-term predicting of crop phenology using VIIRS observations in the central United States.*

**2:00** Jana Marie Gedymin Viel\*, UW-Milwaukee, *Multi-trophic phenological change among birds, insects and plants in Wisconsin.*

**2:20** Alison Donnelly\*, University of Wisconsin - Milwaukee; Rong Yu, School of Natural Resources, University of Nebraska-Lincoln, NE 68583, USA; Amelia Caffarra, ITK, Cap Alpha, Clapiers, France; Jonathan Hanes, Department of Geography, University of Wisconsin-Milwaukee, WI 53201, USA; Liang Liang, Department of Geography, University of Kentucky, Lexington, KY 40506, USA; Ankur Desai, Department of Atmospheric and Oceanic Sciences, University of Wisconsin-Madison, WI 53706, USA; Lingling Liu, Geospatial Sciences Center of Excellence (GSCE), South Dakota State University, Brookings, SD 57007, USA; Mark Schwartz, Department of Geography, University of Wisconsin-Milwaukee, WI 53201, USA, *Timing and*

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*duration of spring phenophases in relation to carbon flux in a mixed forest.*

- 2:40** Mark D. Schwartz\*, University Of Wisconsin-Milwaukee, *Integrating Multiple Measures of Spring and Autumn Phenology: Phase Two.*

**4489. Spatial Memory of the Holocaust (1) (Sponsored by Historical Geography Specialty Group)**

*Room:* Vineyard, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Janet Ward, University of Oklahoma

CHAIR(S): Alberto Giordano, Texas State University

Introducer: Alberto Giordano

- 1:30** Helmut Walser Smith, Professor of History\*, Vanderbilt University, *The Creation of Racial Segregation in Small Town Germany, circa 1935: A Spatial Analysis.*

- 1:50** Mael Le Noc\*, Texas State University, *Accounts of Family Separations in Holocaust Survivors' Oral Histories.*

- 2:10** Waitman Wade Beorn, PhD\*, University of Virginia, *Mapping Holocaust Testimonies of Microspaces: The Janowska Camp.*

- 2:30** Anne Kelly Knowles\*, University of Maine; Justus Hillebrand, PhD candidate, University of Maine, *Placing Holocaust Testimony.*

Discussant(s): Janet Ward, University of Oklahoma

**4490. Perspectives on Migration: Local to Global Dimensions (Sponsored by Africa Specialty Group)**

*Room:* Yarmouth, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Raymond Asare Tutu, Delaware State University

CHAIR(S): Raymond Asare Tutu, Delaware State University

- 1:20** Jeremy C. Goldsmith\*, University of Wyoming, *On the Move: Factors Impacting the Migratory Decision-Making Capabilities of Gambians Relocating to Europe.*

- 1:40** Shefali Juneja Lakhina\*, University of Wollongong, *Co-learning Disaster Resilience with Migrants and Refugees.*

- 2:00** Isaline Wertz\*, Université Libre de Bruxelles, *Fertility of the second-generation Moroccans in Belgium: their heterogeneous behaviors.*

- 2:20** Ibipo Johnston-Anumonwo\*, SUNY Cortland, *Eritrean Transnational Migration to Europe and North America.*

- 2:40** John Kwame Boateng\*, University of Ghana; Raymond A Tutu, Delaware State University, *Language Acculturation and Social Capital among Migrants in James Town, Accra.*

**4491. Urban Economies and the Ordinary Life H: Segregation in Cities III**

*Room:* Nantucket, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): John Miron, University of Toronto

CHAIR(S): Matthew Palm, University of California - Davis

- 1:20** Haemi Won\*, SUNY University at Albany; Shao Chiu Juan, SUNY University at Albany, *Does School Segregation Boost Juvenile Crime? A Geospatial Examination of Stop and Frisk in New York City.*

- 1:40** Heewon Chea\*, University of Tennessee; Madhuri Sharma, The University of Tennessee, *Urban Structure and Hill-Shade Areas: An Analyses of Social and Economic Class Structure in Seoul, South Korea.*

- 2:00** Amy Higgins\*, Federal Reserve Bank of Boston; Erin Graves, Federal Reserve Bank of Boston, *Housing Choice Vouchers: Search Time, Neighborhood Quality, and Racial/Ethnic Differences within Massachusetts.*

- 2:20** Serge Atherwood\*, The University of Texas at San Antonio; Rebecca J. Walter, Ph.D., The University of Texas at San Antonio; Ruoniu Wang, Ph.D., The University of Texas at San Antonio, *Affordable yet underrepresented: Spatially analyzing neighborhoods in San Antonio, TX, where Housing Choice Voucher households are scarce or absent.*

- 2:40** Matthew Palm, PhD\*, University of California - Davis; Deb Niemeier, Professor, University of California Davis, *A Spatial Examination of the Trade Off Section 8 Voucher Holders Make Between Unit Quality and Neighborhood Quality.*

**4492. Geospatial Health Research Symposium: Chronic Diseases I (Sponsored by Spatial Analysis and Modeling Specialty Group, Health and Medical Geography Specialty Group)**

*Room:* Provincetown, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Eric M. Delmelle, University of North Carolina at Charlotte; Mei-Po Kwan, University of Illinois at Urbana-Champaign; Michael J. Widener, University of Toronto

CHAIR(S): Eric M. Delmelle, University of North Carolina at Charlotte

- 1:20** Yan Lin, PhD\*, Department of Geography&Environmental Studies, University of New Mexico; Michael Wimberly, PhD, Geospatial Sciences Center of Excellence, South Dakota State University; Richard Mousseau, MS, Community Health Department, The Great Plains Tribal Chairmen's Health Board, *Disparities of colorectal and breast cancer survival.*

- 1:40** Trang VoPham, Ph.D., M.S.\*, Harvard T.H. Chan School of Public Health/Brigham and Women's Hospital; Kimberly A. Bertrand, Sc.D., Boston University; Peter James, Sc.D., Harvard T.H. Chan School of Public Health/Brigham and Women's Hospital; Natalie DuPre, MS, Harvard T.H. Chan School of Public Health; Veronica Vieira, Sc.D., University of California, Irvine; Rulla M. Tamimi, Sc.D., Harvard T.H. Chan School of Public Health/Brigham and Women's Hospital; Francine Laden, Sc.D., Harvard T.H. Chan School of Public Health/Brigham and Women's Hospital; Jaime E. Hart, Sc.D., Harvard T.H. Chan School of Public Health/Brigham and Women's Hospital, *Ultraviolet radiation exposure and breast cancer risk in the Nurses' Health Study II.*

- 2:00** Markku J. Tykkylainen\*, University of Eastern Finland; Maija Toivakka, University of Eastern Finland; Tiina Laatikainen, University of Eastern Finland; Aki Pihlapuro, University of Eastern Finland; Lauri Mehtätalo, University of Eastern Finland, *Do area-level characteristics have usable predictive value in the outcomes of type 2 diabetes care.*

- 2:20** Ta-Chien Chan\*, Academia Sinica; Jia-Hong Tang, Academia Sinica; Yen-Hui Chiu, Department of Education and Research, Taipei City Hospital, Taipei, Taiwan, *Assessing Healthcare Needs for Measuring Accessibility: A Longitudinal Study of the Geriatric Health Examination in Taipei City, Taiwan.*

- 2:40** Jenny Tjhin; Isaac Luginaah, *A spatiotemporal analysis of breast cancer in Southern Ontario.*

**4493. Geographies of Trauma 1: Locating trauma in urban space (Sponsored by Geographic Perspectives on Women Specialty Group)**

*Room:* Orleans, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Sarah Stinard-Kiel, Temple University; Alisa Shockley, Temple University

CHAIR(S): Rickie Sanders, Temple University

- 1:20** Alisa Shockley, MS\*, Temple University, *Trauma, Gender and Mobility: African American Co-Victims of Violence.*

- 1:40** Alexandra Leigh Demshock\*, Rutgers University, *The Trauma of Urban Invention: University City and the Death and Life of Black Place.*

- 2:00** Stephen Tyler Dickinson\*, Temple University, *Queer community response to HIV/AIDS.*

- 2:20** Bisola Falola\*, the University of Texas at Austin, *Adjusting Yourself to the CC - Ghosts, Tears, Trauma, the '19, and Doubt.*

Discussant(s): Rickie Sanders, Temple University

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ORGANIZER(S): Manzhou Yu, George Mason University; Mingyue Lu, NUIST

CHAIR(S): Mingyue Lu, NUIST

**1:20** Yaxin Zhang, M.S.\*, Peking University; Mengxi Wu, Brown University; Delong Li, Peking University; Shuangcheng Li, PhD, Peking University, *Spatiotemporal decompositions of summer drought in China and its teleconnection with global sea surface temperatures.***1:40** Yiwen Han, Ph.D candidate, Dept. of Landscape Architecture; Graduate School of Environmental Studies Seoul National University;; Youngkeun Song, Assistant Professor (Ph.D.), Dept. of Landscape Architecture; Graduate School of Environmental Studies; Seoul National University, *40 Years of Landscape Character Change in a Fast-Urbanizing Area: Spatial and Temporal Dynamics.***2:00** Rosalyn MacCracken\*, Slippery Rock University; Raed Seetan, Ph.D., Slippery Rock University, *Using Decision Tree Probability Forecasting with Clustering to Predict the Evolution and Intensification of West African Mesoscale Convective Vortices.***2:20** Derek T. Thompson\*, Louisiana State University; Barry D. Keim, Louisiana State University, *Spatiotemporal Patterns and Recurrence Intervals of Tropical Cyclone Strikes for the Caribbean Islands.***2:40** Hao Hu\*, University of Illinois at Urbana-Champaign; Tao Lin, Zhejiang University, Hangzhou, Zhejiang, China; Bo Li, University of Illinois at Urbana-Champaign; Shaowen Wang, University of Illinois at Urbana-Champaign, *Spatiotemporal Bayesian Hierarchical Modeling for Analysis of Crop Yield Response to Weather Variability.***4495. Biopolitics of Former Soviet Spaces (Sponsored by Eurasian Specialty Group)***Room: Falmouth, Marriott, Fourth Floor (Paper Session)*

ORGANIZER(S): John Biersack, University of Kansas; Nathaniel Ray Pickett, University of Kansas; Austin Charron, University of Kansas

CHAIR(S): John Biersack, University of Kansas

**1:20** Nathaniel Ray Pickett\*, University of Kansas, *Community Biopolitics: Soviet Legacies and Ways Forward in Slavutych.***1:40** Grigory Ioffe\*, Radford University, *Life on historical frontier: Polish minority in Belarus.***2:00** Janos Balazs Kocsis\*, Budapest University of Technology and Economics, *Main Street Repositioned.***2:20** Michael Browne, Mr. \*, Miami University Of Ohio, *Political Autonomy in Ajaria and its Necessity for the Georgian State.***2:40** John Biersack\*, University of Kansas, *Crisis of Immunity: Ukraine, Russia, and Biopolitics.***4496. Author Meets Critics: Reece Jones' "Violent Borders: Refugees and the Right to Move" (Sponsored by Political Geography Specialty Group)***Room: Maine, Marriott, Fifth Floor (Panel Session)*

ORGANIZER(S): Corey Johnson, University of North Carolina - Greensboro

CHAIR(S): Corey Johnson, University of North Carolina - Greensboro

Introducer: Corey Johnson

Discussant(s): Reece Jones, University of Hawaii at Manoa

Panelists: Nancy Hiemstra, Stony Brook University; Jeremy Slack, University of Texas - El Paso; Anssi Paasi, University of Oulu; Cynthia Gorman

**4497. Interdependent Challenges and Urban Living: Managing Complex Cities (1) (Sponsored by Economic Geography Specialty Group)***Room: Massachusetts, Marriott, Fifth Floor (Paper Session)*

ORGANIZER(S): John R. Bryson, University of Birmingham;

Vida Vanchan, SUNY Buffalo State

CHAIR(S): Vida Vanchan, SUNY Buffalo State

**1:20** Joanne M Leach, MSc\*, University of Birmingham; Rachel A Mulhall, PhD, University of Birmingham; Deniz Sevinc, MSc, University of Birmingham; Richard Kenny, MA, MSc, University of Birmingham and the West Midlands Combined Authority (WMCA); Chris D. F. Rogers, Eur Ing, PhD, CEng, MICE, MIHT, University of Birmingham; John R Bryson, PhD, University of Birmingham, *Diagnosing a City's Critical Challenges: a Mixed Methods Approach.***1:40** Karen Marie Johnston\*, Lincoln University, *Relaxed regeneration: Decision-making in post-political and drunken spaces of Christchurch, Aotearoa New Zealand.***2:00** Paul Vallance\*, Newcastle University; Mark Tewdwr-Jones, Newcastle University; Yvonne Huebner, Newcastle University, *Newcastle City Futures: new opportunities for 'spaces between' in a complex governance landscape?.***2:20** Jon Coaffee\*, University of Warwick, *Adaptive governance in the complex city.*

Introducer: John R. Bryson

Discussant(s): Alistair Scott, Northumbria University

**4498. Neo-Extractivism, Resource Nationalism, and 'New' Geographies of Resource Governance and Development (3) (Sponsored by Political Geography Specialty Group, Cultural and Political Ecology Specialty Group, Development Geographies Specialty Group)***Room: New Hampshire, Marriott, Fifth Floor (Paper Session)*

ORGANIZER(S): Emily Billo, Goucher College; Meredith J. DeBoom, University of Colorado at Boulder

CHAIR(S): Meredith J. DeBoom, University of Colorado at Boulder

**1:20** Jonathan Kishen Gamu\*, University of British Columbia; Peter Dauvergne, University of British Columbia, *A Clash of Environmentalisms: Corporate Social Responsibility, Mining, and Violence in Peruvian Areas of Limited Statehood.***1:40** Mariel Aguilar-Støen\*, SUM University of Oslo; Benedicte Bull, University of Oslo, *"This is not a game": Violence and resistance to extractive industries in Guatemala, the role of the state and elites.***2:00** Thea Riofrancos\*, Providence College, *Radical Resource Imaginaries in Ecuador (1981-Present).***2:20** Amanda E. Wooden\*, Bucknell University, *When People do not Protest: The Geographies & Politics of Extraction & Protest Criminalization in Kyrgyzstan.***2:40** Emily Billo\*, Goucher College, *Resource extraction and the right to protest: Criminalization and expanding state power in the post-neoliberal Ecuadorian state.***4499. Regional Development and Urban Planning Series III (Sponsored by Regional Development and Planning Specialty Group, Urban Geography Specialty Group, Development Geographies Specialty Group)***Room: Vermont, Marriott, Fifth Floor (Paper Session)*

ORGANIZER(S): Zachary A. Jones, Eastern Michigan University

CHAIR(S): Kaoru Matsuo

**1:20** Louise Kempton\*, Newcastle University, UK, *Does 'Place' Matter in Academic Engagement?.***1:40** Benjamin Ofori-Amoah\*, Western Michigan University, *Regional Development Policy: A Case Study of Ghana and South Korea.***2:00** John Carr, J.D., PhD\*, University of New Mexico; Rita Dionisio, PhD, University of Canterbury, *Users as*



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*Planners: Flexible space and critical geographies of planning.*

**2:20** Alexandra Appel\*, University of Wuerzburg, *The internationalization of small and medium sized enterprises - german actors in the US Southeast. A research agenda.*

**2:40** Kaoru Matsuo\*, Hiroshima University, *Urban Environmental Climate Maps for Supporting Urban Planning in California.*

## SATURDAY, April 8 • 3:20 PM - 5:00 PM • 4500

Poster Sessions for Saturday are located on pages 322-326.

- 4506. Indigenous Peoples and Climate Change II (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme, Human Dimensions of Global Change Specialty Group, Climate Specialty Group, Indigenous Peoples Specialty Group)**  
*Room:* Room 107, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): RDK Herman, National Museum of the American Indian  
 CHAIR(S): RDK Herman, National Museum of the American Indian
- 3:20** Stanislav Ksenofontov\*, Department of Geography, University of Zurich, Switzerland; Norman Backhaus, Prof.Dr., Department of Geography, University of Zurich, Switzerland; Gabriela Schaeppman-Strub, Dr., Department of Evolutionary Biology and Earth Sciences, University of Zurich, Switzerland, *"To fish or not to fish?": vulnerability of fishing communities of Arctic Siberia to climate change and political transformations.*
- 3:40** Lauren Stuart Withey\*, University of California - Berkeley, *Commons Conflicts: What experiences in Colombia's Pacific can teach us about fights for communally-titled lands.*
- 4:00** David Brown\*, Coventry University, *The Representations of Climate Justice in REDD+ policy on a Multiscalar Level.*
- 4:20** Rishi R. Bastakoti\*, University of Calgary; Conny Davidsen, University of Calgary, *A Political Ecology of Forest Carbon, Livelihoods and Tenure in Nepal's REDD+ Climate Change Strategy.*
- 4:40** Carl Norman Meinhardt Bergmann\*, Macalester College, *Carbon commodity chains: Assessing the political ecology of carbon forestry and the carbon economy.*
- 4507. Sex and Gender in Election 2016 (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme, Late-Breaking News Special Session Track)**  
*Room:* Room 108, Hynes, Plaza Level (Panel Session)  
 ORGANIZER(S): Robert M. Vanderbeck, University of Leeds; Rashad Shabazz, Arizona State University  
 CHAIR(S): Lawrence Knopp, University of Washington Tacoma  
 Panelists: Altha J. Cravey, University Of North Carolina; Joni

Seager, Bentley College; Matthew G. Hannah, Universität Bayreuth; Laurie Essig, Middlebury College

- 4508. Sexuality and Space 20+1 III: Futures (Sponsored by Sexuality and Space Specialty Group)**  
*Room:* Room 109, Hynes, Plaza Level (Panel Session)  
 ORGANIZER(S): Julie A. Podmore, John Abbott College; Max Andrucki, Temple University; Farhang Rouhani, University of Mary Washington  
 CHAIR(S): Julie A. Podmore, John Abbott College  
 Discussant(s): LaToya Eaves, Middle Tennessee State University; Jen Jack Gieseking, Trinity College; Gilly Hartal, Bar Ilan University  
 Panelists: Rae Rosenberg; David K. Seitz, University of Toronto; Nathaniel M. Lewis, University of Southampton
- 4509. Water Management I: International Case Studies (Sponsored by Water Resources Specialty Group)**  
*Room:* Room 110, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): RDK Herman, National Museum of the American Indian  
 CHAIR(S): Ana Britto, Federal University of Rio de Janeiro
- 3:20** Dan Shrubsole, PhD\*, University Of Western Ontario; Dan Walters, PhD, Nipissing University; Barbara Veale, PhD, Halton Region Conservation Authority; Bruce Mitchell, PhD, University of Waterloo, *Integrated Water Management in Canada: The Experience of Watershed Agencies.*
- 3:40** Mohmmmed Muslim Sheikh\*, Govt. Lohia College, Churu, *Sustainable Water Management Of Jaipur City, Rajasthan, India.*
- 4:00** Angela M. Seidler\*, University of South Carolina, *The Northern Cyprus Water Supply Project: Early socio-environmental impacts of an interbasin water transfer on an Agricultural Turkish population.*
- 4:20** Stephen Esosa Osakpolor\*, Igbiniedion University Okada, *Geo-informatics for Ensuring Water Accessibility; Modeling and Assessment of Abuja Water Management System.*
- 4:40** Ana Britto\*, Federal University of Rio de Janeiro; Paula Sousa Oliveira Barbosa, geographer, Pedro II College; Carolina Helena Oliveira Silva, Master Student, Federal University of Rio de Janeiro, *Discussing possibilities*



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*of water sensitive urban development of Jacarapaguá Lagoons Basin area in Rio de Janeiro in urban planning tools.*

## 4510. Jeanne X. Kasperson Session 1 (Sponsored by Hazards, Risks, and Disasters Specialty Group)

Room: Room 111, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Laura Kathryn Siebeneck, University of North Texas

CHAIR(S): Laura Kathryn Siebeneck, University of North Texas

3:20 Keeley S Heise, Oklahoma State University, *Blizzard Perception and Preparedness: A Case Study of the Dakotas.*

3:40 Vaishnavi Thakar\*, University of Texas At Dallas - Richardson, TX; Denis Dean, University of Texas at Dallas, *Genetic Algorithm for Spatial Optimization of Wildfire Fuel Treatments Locations.*

4:00 Marissa Z. Bell\*, University At Buffalo, *Policy Mobility and the Concept of 'Consent' in Nuclear Waste Siting: A Cross-National Examination of a Global Issue.*

4:20 Laura E. R. Peters\*, Oregon State University, *Cascading Transformations: Post-Conflict Peacebuilding and Post-Disaster Recovery in Nepal.*

4:40 Yajie Li\*, Utah State University; Forrest Schoessow, Utah State University; Emily Esplin, Utah State University; Peter Howe, Utah State University, *Beat the Heat: Content Analysis of Message Appeals in Heat Risk Communication.*

## 4511. Food Sovereignty in Indigenous Contexts (Sponsored by Indigenous Peoples Specialty Group, Geographies of Food and Agriculture Specialty Group)

Room: Room 200, Hynes, Second Level (Paper Session)

ORGANIZER(S): RDK Herman, National Museum of the American Indian

CHAIR(S): Catarina Passidomo, University of Mississippi

3:20 Colton Fagundes\*, American University, *Indigenous Food Sovereignty in the United States.*

3:40 Nikolas Thomopoulos\*, University of Greenwich; Fanny Paschek, University of Greenwich; Edmund Bell-King, Climate Connected Benefit Society, *Up-scaling farming systems in Tanzania to improve agricultural productivity and local economic development.*

4:00 Susan J. Massad, HSD (Doctor of Health & Safety). RD\*, Professor, Framingham State University, *Farming, Water, Food Sovereignty, and Nutrition in Occupied Palestinian Territories.*

4:20 Janna L. Lafferty\*, Florida International University, *Unsettling Local Food: Articulating Coast Salish Sovereignties, Ecologies, and Ontologies in Western Washington Alternative Food Politics.*

4:40 Catarina Passidomo\*, University of Mississippi, *Place-marketing and mythmaking through food in Peru and the American South.*

## 4512. Tourism and the Politics of Wilderness Management and Governance (Sponsored by Recreation, Tourism, and Sport Specialty Group)

Room: Room 201, Hynes, Second Level (Paper Session)

ORGANIZER(S): Jarkko J. Saarinen, University of Oulu; Elizabeth S. Vidon, SUNY-ESF

CHAIR(S): Jarkko J. Saarinen, University of Oulu

3:20 Tyra A. Olstad\*, SUNY Oneonta, *Art as a Tool for Wilderness Management: Stewardship and Sense of Place in Misty Fiords National Monument, Alaska.*

3:40 Cheryl Sandrow\*, SUNY - College of Environmental Science and Forestry, *The Trouble with Wilderness Tourism: Getting back to the Real Adirondacks.*

4:00 Theodora Greene Weatherby\*, *Delegitimizing Wilderness as The Man Cave: Tourism, Wilderness, and Woman.*

4:20 Christina Roush\*, University of North Texas, *National Parks Tourism and its effects on the surrounding*

*communities: A case study of Jackson, WY and Driggs, ID.*

4:40 Jarkko Saarinen\*, University of Oulu, *Global Imaginaries of the Wild and Local Uses of Wilderness: Political Ecologies of the Governance of Wilderness Areas.*

## 4513. Ecologies of Toxicity 2: Interference

Room: Room 202, Hynes, Second Level (Paper Session)

ORGANIZER(S): Joe Gerlach, University of Oxford; Thomas Jellis, University of Oxford; Sasha H. Engelmann, University of Oxford

CHAIR(S): Thomas Jellis, University of Oxford

3:20 Sasha H. Engelmann\*, University of Oxford; Jol Thomson, Akademie Schloss Solitude, *Whispers in White Noise.*

3:40 Samuel Hertz\*, Independent Artist, *Toxic Aurality.*

4:00 Nicolas Prignot\*, Université Libre de Bruxelles, *Machinic co-definition of milieus, toxicities, bodies and souls intertwined in situated diseases and gardening practices..*

4:20 Saul Williams\*, *Dounreay.*

4:40 Etienne Turpin, PhD\*, MIT; Kali Stull, *Our Vectors, Ourselves.*

## 4514. Behind the Funding: Former NSF Program Officers Discuss Successful Proposal Submission (Sponsored by AAG Careers and Professional Development Theme)

Room: Room 203, Hynes, Second Level (Panel Session)

ORGANIZER(S): Daniel J. Hammel, University of Toledo

CHAIR(S): Daniel J. Hammel, University of Toledo

Discussant(s): Kenneth R. Young, University of Texas at Austin; Daniel J. Hammel, University of Toledo; Scott M. Freundsuh, University of New Mexico; Kelley A. Crews, University of Texas - Austin

## 4515. Myanmar in Transition: Democracy, Development and Social Change II (Sponsored by Asian Geography Specialty Group)

Room: Room 204, Hynes, Second Level (Paper Session)

ORGANIZER(S): Chung-Tong Wu, Western Sydney University; Xiaobo Su, University of Oregon; Marion SABRIE, Center for Southeast Asian Studies

CHAIR(S): Xiaobo Su, University of Oregon

3:20 Chung-Tong Wu, Professor\*, Western Sydney University, *Development, Urbanization and Poverty Reduction: Lessons for Myanmar.*

3:40 Soe Win Myint\*, Arizona State University; Chuyuan Wang, Arizona State University, *An Examination of the impacts of Urbanization on the Environment: Experiences from current and former capitals of Myanmar.*

4:00 Scott Jennings Melbourne\*, University of Hong Kong, *Quantifying the green spaces absorbing urban growth in Yangon, Myanmar.*

4:20 Marion SABRIE\*, Paris 13 University, *Yangon City metamorphoses since 2010: toward a possible sustainable development?.*

4:40 Peilei Fan\*, Michigan State University; Jiquan Chen, Michigan State University; Zaw Naing, Mandalay Technology, Myanmar; Zutao Yang, Michigan State University; Khaing Moe Nyunt, Yangon City Development Committee; Zin Nwe Myint, Yangon University; Jiaguo Qi, Michigan State University; Soe Myint, Arizona State University, *Extreme climate events, globalization, and capital relocation: Urbanization and sustainability in Yangon, Myanmar.*

## 4516. Historicising the mind. Between conscious and unconscious states of mentation. 1. (Sponsored by Health and Medical Geography Specialty Group, Cultural Geography Specialty Group, Historical Geography Specialty Group)

Room: Room 205, Hynes, Second Level (Paper Session)

ORGANIZER(S): Hazel Morrison, University of Durham

CHAIR(S): Hazel Morrison, University of Durham

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- 3:20** Hilary Powell\*, Durham University, *Mind 'wandering': motoric metaphors and the medieval imagination.*
- 3:40** Kenneth Alewine, MA, MS\*, University of Texas Medical Branch, *Consciousness as a Musical Instrument.*
- 4:00** Shannon McBriar\*, Amsterdam University College, *The wandering mind and the landscape of embodiment: Affordances in Virginia Woolf's 'The Mark on the Wall' and Carole Maso's AVA.*
- 4:20** Meindert Ewout Peters\*, University of Oxford, *Grabbing hold of the material: 'mind wandering' and the search for stability and control in Döblin's Berlin Alexanderplatz.*

Discussant(s): Jesse Proudfoot, Durham University

## 4517. Mapternoon B (Sponsored by AAG Mapathon)

Room: Room 206, Hynes, Second Level (Panel Session)

ORGANIZER(S): Thomas Gertin, ActioNet; Sven Fuhrmann, George Mason University; Patricia A. Solis, Texas Tech University - Lubbock, TX

CHAIR(S): Thomas Gertin, ActioNet

## 4519. The process of Metropolisation: Reconfiguring the city at the regional scale 3

Room: Room 210, Hynes, Second Level (Paper Session)

ORGANIZER(S): Rodrigo Cardoso, Delft University of Technology; Evert Meijers, Delft University of Technology

CHAIR(S): Rodrigo Cardoso, Delft University of Technology

- 3:20** Tassilo Herrschel\*, University of Westminster, *Metropolitan-centric regionalism and/or the cohesive state.*
- 3:40** Nick Green, Dr\*, University of Liverpool, *Non-plan Network Nation: England's dangerous rejection of strategic spatial planning, and what we can learn from it.*
- 4:00** Peter Dirksmeier\*, Martin-Luther-University Halle-Wittenberg, *Metropolisation through administrative export processing zones in the global South? The perspective of the Mauritian zone of exception.*
- 4:20** Marlène de Saussure\*, Center for Metropolitan Studies, TU Berlin; Boris Gresillon, Aix-Marseille-University, *Integrated Metropolisation. Challenges and Opportunities of Multi-Scaled Urban Reconversion Processes for the "Métropole Aix-Marseille-Provence".*

## 4521. Electoral Geography: Research in Recent Elections II (Sponsored by Political Geography Specialty Group, Late-Breaking News Special Session Track)

Room: Room 301, Hynes, Third Level (Paper Session)

ORGANIZER(S): John Heppen, University of Wisconsin, River Falls

CHAIR(S): John Heppen, University of Wisconsin, River Falls

- 3:20** Jason Jurjevich\*, Portland State University, *Who Votes for Mayor? Exploring Voter Turnout in U.S. Mayoral Elections.*
- 3:40** Erin H. Fouberg\*, Northern State University, *Millennial Self-Efficacy and Presidential Candidate Support.*
- 4:00** Robert Howard Watrel\*, South Dakota State University; Fred M. Shelley, University of Oklahoma; John Clark Archer, University of Nebraska, *The 2016 Presidential Election in Historical Perspective.*
- 4:20** Levi J. Wolf\*, Arizona State University, *Spatial Misspecification in Electoral Modeling & Counterfactual Inference.*
- 4:40** Jonathan Leib\*, Old Dominion University, *Confederate Symbols and 'Southern' Identities in Hampton Roads, Virginia after the 2015 Charleston Massacre.*

## 4522. Environmental Solutions II: Mapping, Identifying, and Predicting

Room: Room 302, Hynes, Third Level (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Elizabeth Ridder, California State University, San Marcos

- 3:20** Zahra Ghaffari\*, Texas State University; Bahman Shams Esfandabad, Islamic Azad University; Nathan Allen Currit, Texas State University; Mahmoud Karami, Tehran University, *Utilizing satellite imagery analysis in Gazelle bennettii (Chinkara) Carrying Capacity calculation.*
- 3:40** Andrew W. L'Roe\*, University of Wisconsin- Madison, Forest & Wildlife Ecology, *Predictors of Working Forest Conservation and Parcelization.*
- 4:00** Wei Ni\*, Beijing Normal University; Saini Yang, Beijing Normal University; Fuyu HU, Beijing Normal University, *Identification of Critical Corridors in a Regional Ecological Infrastructure Network.*
- 4:20** David Smith\*, University of Redlands; Stevn Moore, PhD, University of Redlands; Nathan Strout, University of Redlands, *PanaMapping: Geodesign to Conserve the Rainforest.*
- 4:40** Elizabeth Ridder, PhD\*, California State University, San Marcos; Christopher S Galletti, PhD, Dartmouth College; Patricia L Fall, PhD, University of North Carolina Charlotte; Steven E Falconer, PhD, University of North Carolina Charlotte, *Interpreting Ancient Land Use on a Cypriot Terraced Landscape.*

## 4523. Detection of drought-induced changes in terrestrial ecosystems using remote sensing data 2 (Sponsored by Remote Sensing Specialty Group, Biogeography Specialty Group)

Room: Room 303, Hynes, Third Level (Paper Session)

ORGANIZER(S): Taehee Hwang, Indiana University; Xiaoyang Zhang

CHAIR(S): Taehee Hwang, Indiana University

- 3:20** Kyle Landolt, MS\*, University of Tennessee, Knoxville; Robert Washington-Allen, Ph.D., University of Tennessee, Knoxville; Nicholas Nagle, Ph.D., University of Tennessee; Henri Grissino-Mayer, Ph.D., University of Tennessee, Knoxville, *Developing historical productivity maps for the blue oak woodlands in California using remote sensing and dendrochronology.*
- 3:40** Yaping Xu\*, Louisiana State University, *Agricultural Drought Monitoring Based on SMAP Observations and NLDAS Data: Analysis of Standardized Soil Moisture Index in Southeast United States.*
- 4:00** Ranjeet John\*, Michigan State University, Center for Global Change and Earth Observation, East Lansing, MI, United States; Vincenzo Giannico, Department of Scienze Agro-Ambientali e Territoriali, University of Bari Aldo Moro; Hogeun Park, Michigan State University, Center for Global Change and Earth Observation, East Lansing, MI, United States; Jiquan Chen, Michigan State University, Center for Global Change and Earth Observation, East Lansing, MI, United States; Jingfeng Xiao, University of New Hampshire, Institute for the Study of Earth, Oceans, and Space; Zu-tao Yang, Michigan State University, Center for Global Change and Earth Observation, East Lansing, MI, United States; Changliang Shao, Michigan State University, Center for Global Change and Earth Observation, East Lansing, MI, United States; Gabriela Shirkey, Michigan State University, Center for Global Change and Earth Observation, East Lansing, MI, United States; Raffaele Laforzezza, Department of Scienze Agro-Ambientali e Territoriali, University of Bari Aldo Moro; Jiaguo Qi, Michigan State University, Center for Global Change and Earth Observation, East Lansing, MI, United States, *Spatio-temporal estimates of herbaceous aboveground biomass on the Mongolian Plateau: their climate controls and anthropogenic drivers.*

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**4:20** Taehee Hwang\*, Indiana University Bloomington; Hamed Gholizadeh, Indiana University Bloomington; Daniel A Sims, Indiana University Bloomington; Edward R. Brzostek, West Virginia University; Kimberly A. Novick, Indiana University Bloomington; Daniel T. Roman, Indiana University Bloomington; Scott Robeson, Indiana University Bloomington; Abdullah F Rahman, University of Texas Rio Grande Valley, *Capturing isohydric vs. anisohydric behavior during droughts using photochemical reflectance indices between sunlit and shaded canopies.*

## **4524. Progress in Human Geography Lecture**

**Room:** Room 304, Hynes, Third Level (Paper Session)

ORGANIZER(S): Pauline McGuirk, University of Wollongong, Australia

CHAIR(S): Pauline McGuirk, University of Wollongong, Australia

Introducer: Noel Castree

**3:30** Helga Leitner\*, University of California, Los Angeles; Helga M Leitner, Professor, UCLA, *Interrogating Spaces of Urban Commoning.*

## **4525. Farming systems and global sustainable food security, Part 2 - regional and global perspectives (Sponsored by Geographies of Bread and Water in the 21st Century Featured Theme, Geographies of Food and Agriculture Specialty Group)**

**Room:** Room 305, Hynes, Third Level (Paper Session)

ORGANIZER(S): Verena Seufert, University of British Columbia; Katharina Waha, CSIRO

CHAIR(S): Verena Seufert, University of British Columbia

**3:20** Katharina Waha\*, CSIRO, *Diversity in agricultural systems: Mapping mixed crop-livestock and multiple cropping systems.*

**3:40** William San Martin\*, University of California, Davis / Massachusetts Institute of Technology, *Nitrogen Fertilizers, Science, and Environmental Change in Latin America: History, Policy, and the Global Nitrogen Challenge for the 21st Century.*

**4:00** Brent Joseph Lloyd\*, University of Utah, *Spatial Modeling of Child Malnutrition and Farming Methods in Rural Sub-Saharan Africa.*

**4:20** Verena Seufert\*, University of British Columbia, *Mapping European Agromes - management characteristics, environmental outcomes and food production.*

Discussant(s): Kimberly M. Carlson, University of Hawaii

## **4526. Globalization 2.0: Geopolitical shifts, urbanisation and global infrastructure space I**

**Room:** Room 306, Hynes, Third Level (Paper Session)

ORGANIZER(S): Alan Wiig, University of Massachusetts, Boston; Jonathan Silver, University of Sheffield

CHAIR(S): Alan Wiig, University of Massachusetts, Boston

**3:20** Ashley Carse, Vanderbilt University; Joshua Alan Lewis\*, Tulane University, *Toward a political ecology of infrastructure standards: Or, how to think about ships, waterways, sediment, and communities together.*

**3:40** Michael Woods\*, Aberystwyth University, *Assembling Globalization and Reterritorializing Rural Infrastructures: China and the New Zealand Dairy Assemblage.*

**4:00** Nate Millington\*, University of Cape Town, *Peripheral natures: Tracing the politics and aesthetics of infrastructural visibility in São Paulo, Brazil.*

**4:20** Brian Rosa, PhD, City University of New York, *The City Below: Infrastructural Landscapes and the Post-Industrial Imaginary in London and Manchester.*

Discussant(s): John Harrison, Loughborough University

## **4527. Food system transitions 4: Access and linkages (Sponsored by Cultural and Political Ecology Specialty Group, Rural Geography Specialty Group, Geographies of Food and**

## **Agriculture Specialty Group)**

**Room:** Room 307, Hynes, Third Level (Paper Session)

ORGANIZER(S): Christoph David Dietfried Rupprecht, Research Institute for Humanity and Nature; Steven R. McGreevy, Research Institute for Humanity and Nature

CHAIR(S): Steven R. McGreevy, Research Institute for Humanity and Nature

**3:20** Jessica DiCarlo\*, University of Colorado, Boulder; Katie Epstein, Montana State University, *Agro-Ecological changes and the politics of access in post-earthquake Nepal.*

**3:40** Dawn Kotowicz\*, University of Rhode Island, *Unique Marketing Arrangements of Underutilized and Locally Abundant Fish in Point Judith, Rhode Island.*

**4:00** Thelma I. Velez\*, The Ohio State University, *Institutional Buying of Sustainable and Just Food from Somewhere..*

**4:20** Catherine DuBreck\*, Western University; Godwin Arku, Western University; Jason Gilliland, Western University, *Examining Community and Consumer Food Environments for Children: An Urban-Suburban-Rural Comparison in Southwestern Ontario.*

**4:40** Sophia Elizabeth Hagolani-Albov, MSc\*, University of Helsinki, *Healing Metabolic Rift Through Food Democracy: Palopuro Agroecological Symbiosis.*

## **4528. Economies of agriculture and water (Sponsored by Geographies of Bread and Water in the 21st Century Featured Theme)**

**Room:** Room 308, Hynes, Third Level (Paper Session)

ORGANIZER(S): Bread and Water

CHAIR(S): Dolly Daftary, School for Global Inclusion and Social Development

**3:20** Therese Rudebeck\*, University of Cambridge, *Corporate Water Stewardship: Shared risk, shared value and the financialization of global water governance.*

**3:40** M.Y. Han, Institute of Geographic Sciences and Natural Resources Research, CAS; W.D. Liu, Institute of Geographic Sciences and Natural Resources Research, CAS, *Tele-connection of Globalized Economy: Water Use in Global Supply Chain.*

**4:00** Rebecca Ellis, PhD student\*, University of Western Ontario, *Disrupt the Global, Transform the Local: the transformative potential of place-based food movements.*

**4:20** Michael B. Wironen, PhD Candidate\*, Gund Institute for Ecological Economics at the University of Vermont, *The Long Shadow of Agricultural Commodity Production: A Case Study from Vermont, USA.*

**4:40** Dolly Daftary\*, School for Global Inclusion and Social Development, UMass Boston, *Market expansion at the geopolitical margins: The politics of labor, value and affect in dryland Gujarat, India.*

## **4529. Urban Remote Sensing from Local to Global Scale (IV): Urban Health and Well-being (Sponsored by Geographic Information Science and Systems Specialty Group, Remote Sensing Specialty Group, Health and Medical Geography Specialty Group)**

**Room:** Room 309, Hynes, Third Level (Paper Session)

ORGANIZER(S): Hua Liu, Old Dominion University; Qihao Weng, Indiana State University

CHAIR(S): Hua Liu, Old Dominion University

**3:20** Tonny Oyana\*, University of Tennessee -Memphis, *Effects of lifetime exposure to ambient pollution in a Memphis metropolitan area pediatric asthma cohort.*

**3:40** Phoebe Tran, MS\*, Yale University; Lam Tran, University of Pennsylvania, *Spatial Pattern of the Associations between Awareness of Myocardial Infarction Symptoms, Socioeconomic Factors, and Cardiovascular Disease Risk Factors.*

**4:00** Kejin Cui\*, George Mason University; Fei Hu, George Mason University; Chaowei Yang, George Mason



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University, *Utilizing Deep-Learning Methods to Detect the Co-relation between Climate Change and Epidemic Outbreaks - examples with Dengue Fever and Zika.*

**4:20** Victor Gutierrez-Velez\*, Temple University, *Understanding social and environmental risks for the transmission of mosquito borne diseases in Eastern US.*

**4:40** Hua Liu\*, Old Dominion University; Yuhao Wu, Virginia Polytechnic Institute and State University, *Analysis of West Nile Virus dissemination in Southern California using data mining.*

**4530. More than Metaphor: The Urban Frontier and Shifting Strategies of Accumulation 2**

*Room:* Room 310, Hynes, Third Level (Paper Session)

ORGANIZER(S): Josh Akers, University of Michigan-Dearborn; Benjamin F. Teresa, Rutgers University

CHAIR(S): Josh Akers, University of Michigan-Dearborn

**3:20** Mayra Mosciaro, Katholieke Universiteit Leuven (KU Leuven) and Politecnico di Milano (POLIMI), *The port is the new frontier - Rio de Janeiro's redevelopment discourse.*

**3:40** William Kutz\*, University of California, Berkeley, *Municipalizing geo-economic statecraft: Crisis and transition in the European Union.*

**4:00** Martine August, PhD\*, Rutgers University, *Gentrification of the High Rise Frontier: Financialization of Rental Apartments and Displacement in Toronto, Canada.*

**4:20** Benjamin F. Teresa\*, Virginia Commonwealth University, *Financialization at the Urban Frontier: The New Logic of the Rent Gap in the Transformation of Regulated Housing in New York City.*

Discussant(s): Kevin Ward, University of Manchester

**4531. Social justices in the context of adaptation to climate change - reflecting on different policy approaches to distribute risks and allocate resources in flood risk management (Sponsored by Hazards, Risks, and Disasters Specialty Group)**

*Room:* Room 311, Hynes, Third Level (Paper Session)

ORGANIZER(S): Thomas Thaler, University of Natural Resources and Life Sciences; Sven Fuchs, University of Natural Resources and Life Sciences; Neelke Doorn

CHAIR(S): Sven Fuchs, University of Natural Resources and Life Sciences

**3:20** David Shively\*, University of Montana, *Flood Risk Management in the United States: Implications of National Flood Insurance Program Changes for Social Justice.*

**3:40** Thomas Thaler\*, University of Natural Resources and Life Sciences; Andreas Zischg, University of Bern, Mobiliar Lab for Natural Risks, Oeschger Centre for Climate Change Research; Margreth Keiler, University of Bern, Institute of Geography; Sven Fuchs, University of Natural Resources and Life Sciences, *Fair allocation of risk and benefits - distributional justices in mountain hazard management.*

**4:00** Neelke Doorn\*, Technical University Delft; Thomas A. Thaler, University of Natural Resources and Life Sciences, Vienna; Thomas Hartmann, Utrecht University, *Compensation for flood measures in Austria, Germany, and the Netherlands: A social justice perspective.*

**4:20** Jessica Simms\*, Audrey Grismore\*, Louisiana State University, *Rejecting Traditional Resilience: The Immobility Turn in Coastal Louisiana USA.*

**4532. Counter-mapping the borders of Europe in the MENA region and Sub-Saharan countries**

*Room:* Room 312, Hynes, Third Level (Paper Session)

ORGANIZER(S): Glenda Garelli; Martina Tazzioli

CHAIR(S): Alison Mountz, Wilfrid Laurier University

**3:20** Paolo Cuttitta\*, VU University Amsterdam, *Mapping Non-state Actors of Migration Management in Tunisia,*

*Libya and Egypt.*

**3:40** Isabella Helena Alexander, PhD\*, Emory University, *Bodies out of Motion: The Externalization of European Borders in Morocco.*

**4:00** Glenda Garelli\*, DePaul University; Martina Tazzioli, Swansea University, *Counter-mapping the Tunisian migratory space.*

**4:20** Martina Tazzioli\*, Swansea University, *Counter-mapping a revolutionised space of mobility.*

**4:40** Sebastian Cobarrubias, PhD\*, University of North Carolina - Charlotte; Maribel Casas-Cortes\*, Hunt Fellow, *Itinerant B/order Assemblages: Externalization as Rethinking the Statecraft of Human Mobility.*

**4533. Research, Fieldwork, and Educational Travel in Cuba I: Field Research in Cuba (Sponsored by Latin America Specialty Group, Qualitative Research Specialty Group)**

*Room:* Room 313, Hynes, Third Level (Panel Session)

ORGANIZER(S): Federica Bono, University of Leuven; John Finn, Christopher Newport University

CHAIR(S): John Finn, Christopher Newport University

Introducer: Federica Bono

Discussant(s): Christian Schmid, ETH Zurich; John Finn, Christopher Newport University

Panelists: Mario Reinaldo Machado, Pennsylvania State University; Matthew Charles Peros, Bishop's University; Joanna Kocsis, University of Toronto; Garrett Graddy-Lovelace, American University School of International Service; Federica Bono, University of Leuven; Yulia Garcia, Universidad Central "Marta Abreu" de las Villas

**4536. David Harvey Featured Lecture: "Marx, Capital and the Madness of Economic Reason"- Featured Session**

*Room:* Ballroom B, Hynes, Third Level (Panel Session)

Organizers: **Douglas Richardson**, American Association of Geographers and **Derek H. Alderman**, University of Tennessee

Introduction: **Derek H. Alderman**, University of Tennessee  
Speaker: **David Harvey**, CUNY

David Harvey, one of the most influential figures in geography and urban studies, and among the most cited intellectuals of all time across the humanities and social sciences, will deliver a featured lecture, "Marx, Capital and the Madness of Economic Reason."

For geographers and non-geographers across many disciplines and languages, David Harvey has established the importance of space and uneven geographical development to the survival of capitalist accumulation, the perpetuation of inequality, and the rise of neoliberalism. His body of work demonstrates the highly creative and consequential place that geographers can have in engaging in and shaping broader transdisciplinary discussions and debates.

David Harvey will also receive the AAG Brunn Award for Creativity in Geography during the AAG Awards Luncheon on April 9, 2017. This annual AAG award recognizes a geographer who has demonstrated originality, creativity, and significant intellectual breakthroughs in geography.

**4538. Digital \ Human \ Labour 4: Doing Digital Geographies**

*Room:* Independence East, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): James Thatcher, University of Washington - Tacoma; Mark Graham, University of Oxford;

Dorothea Johanna KLEINE, University of Sheffield

CHAIR(S): Dorothea Johanna KLEINE, University of Sheffield

**3:20** David O'Sullivan\*, University of California, Berkeley; Luc Guillemot, University of California, Berkeley, *'Same only different': rethinking the practice of digital urban geographies.*

**3:35** Stephanie Velednitsky\*, University of Wisconsin - Madison; Samer N. Alatout\*, University of Wisconsin-Madison, *Fabricating Sovereignty: Water, Labor, and*



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*Microprocessor Manufacture in Israel.*

**3:50** Evangeline McGlynn\*, University of California Berkeley, *Scales of Inquiry: Geography in the Era of Computational Social Science.*

**4:05** Beatriz Itzel Cruz Megchun\*, American University of Sharjah, *Re-imagining Sharjah University City Map through Art, Design, and Digital Technologies.*

**4:20** Margaret Jack, PhD student\*, Cornell University, *Infrastructure as Creative Action: Online Buying, Selling, and Delivery in Phnom Penh.*

Discussant(s): James N. Ash, Newcastle University

**4539. Land-titling Triumph and the Aftermath : Paradoxical Geographies of Power and Violence (Sponsored by Latin America Specialty Group)**

*Room:* Independence West, Sheraton, Second Floor (Paper Session)  
ORGANIZER(S): Monica Patricia Hernandez, Rutgers, The State University of New Jersey; Cari Tusing, University of Arizona; Shanya Cordis, University of Texas - Austin  
CHAIR(S): Monica Patricia Hernandez, Rutgers, The State University of New Jersey

**3:20** Cari Tusing\*, University of Arizona, *The new Guarani Reductions: Land Politics in Northern Paraguay.*

**3:40** Shanya Cordis\*, University of Texas - Austin, *"This is Cowboy Land": Spatial Imaginaries of the "Bush" and the Racial-Sexual Indigenous Body in Guyana.*

**4:00** Monica Patricia Hernandez\*, Rutgers, The State University of New Jersey, *What happens after property? Contested lands, the state and Afro Colombian rural communities after ethnic recognition.*

**4:20** Ryan B. Anderson\*, University of Kentucky, *Entitled Dispossession: Fences, laws, and title disputes in Baja California Sur, Mexico.*

Discussant(s): Tania Li, University of Toronto

**4540. Sea Level, GIScience and Uncertainty (Sponsored by Geographic Information Science and Systems Specialty Group, Coastal and Marine Specialty Group, Hazards, Risks, and Disasters Specialty Group, Uncertainty and Context in Geography and GIScience Featured Theme)**

*Room:* Liberty B, Sheraton, Second Floor (Paper Session)  
ORGANIZER(S): Thomas Crawford, Saint Louis University; Thomas Richard Allen, Old Dominion University  
CHAIR(S): Thomas Richard Allen, Old Dominion University  
**3:20** Joanne Halls\*, UNC Wilmington; Maria Frishman, UNC Wilmington; Timothy Moss, UNC Wilmington; Michael Okely, UNC Wilmington, *Barrier Island Geomorphology: An Automated Geospatial Model to Derive Features and Compute Displacement and Movement Through Time.*

**3:40** George M. Mcleod\*, Old Dominion University; Thomas R Allen, PhD, Old Dominion University, *Simulating Digital Elevation Model (DEM) Error to Understand Uncertainty in Coastal Inundation Models.*

**4:00** Thomas Richard Allen\*, Old Dominion University; Thomas Crawford, St. Louis University; George Mcleod, Old Dominion University, *Sea Level Rise and Multi-Hazard Flooding Risks to Coastal Community Water Infrastructure.*

**4:20** Aaron Michael Shew\*, University of Arkansas; Lawton L. Nalley, Ph.D., University of Arkansas; Sudhir Yadav, Ph.D., International Rice Research Institute; Krishna Jagadish S.V., Ph.D., Kansas State University, *Geospatial Analysis of Water Depth and Salinity Constraints on Agriculture: The Case of Polder Production Systems in Coastal Bangladesh.*

**4:40** Thomas Crawford\*, Saint Louis University; Munshi K. Rahman, Saint Louis University, *Geospatial Analysis of Annual Shoreline Change in Coastal Bangladesh.*

**4541. Practices in data quality and accuracy (Sponsored by Uncertainty and Context in Geography and GIScience)**

**Featured Theme)**

*Room:* Liberty C, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Uncertainty and Context Theme

CHAIR(S): Guy Preston Hydrick, Clark University

**3:20** Koos Fransen\*, Ghent University; Steven Farber, University of Toronto, *A Spatio-Temporal Accessibility Measure for Modelling Activity Participation.*

**3:40** Andy Stock\*, Stanford University, *Computationally efficient sensitivity analysis for models with spatial outputs.*

**4:00** Behzad Vahedi\*, Department of Geography and Center for Spatial Studies, University of California Santa Barbara; Werner Kuhn, Department of Geography and Center for Spatial Studies, University of California Santa Barbara, *Revisiting the Notion of "Continuous Fields".*

**4:20** Wame Lucretia Hambira\*, University of Botswana; Oliver Moses, Mr, Okavango Research Institute, *Climate change policy in a world of uncertainty and information deficiency.*

**4:40** Guy Preston Hydrick\*, Clark University, *Micropolitics, MAUP, and Urban Forest Planning.*

**4542. Vegan Geographies 1: critical veganism, ethics, justice and spatial praxis. (Sponsored by Animal Geography Specialty Group)**

*Room:* Back Bay Ballroom A, Sheraton, Second Floor (Paper Session)  
ORGANIZER(S): Richard J. White, Sheffield Hallam University; Ophélie Véron; Yamini Narayanan, Deakin University  
CHAIR(S): Simon Springer, University of Victoria

**3:20** Yamini Narayanan\*, Deakin University, *'Subaltern animism': conceptualising a vegan planning protocol.*

**3:40** Richard J. White, Dr.\*, Sheffield Hallam University, *70 Billion farmed animals killed every year: the limits of "go vegan!" and the need for critical vegan geographies..*

**4:00** Ophélie Véron\*, Université Catholique de Louvain, *From the Geography of Veganism to Antispeciesist Geography: An Attempt to Define Vegan Geographies.*

Discussant(s): Hannah Gunderman, University of Tennessee

**4543. Gail Hobbs Student Paper Competition (Sponsored by Geography Education Specialty Group)**

*Room:* Back Bay Ballroom B, Sheraton, Second Floor (Paper Session)  
ORGANIZER(S): Larianne Collins, University of South Carolina  
CHAIR(S): Larianne Collins, University of South Carolina  
**3:20** Thomas R. Craig\*, Oklahoma State University, *Challenging U.S. Undergraduates' Constructions of India: Opportunities to (Re)imagine the Other.*

**3:40** Kama Cannon\*, University of North Carolina Wilmington, *Extracurricular SCUBA Diving: Motivating Adolescent Girls to Engage in PlaceBased Science Enrichment.*

**4:00** Caroline Hope McClure\*, Texas State University, *Texas Geography Education: How HB5 has Changed Enrollment in 9-12 Geography Courses.*

**4:20** Azeezat Johnson\*, University of Sheffield, *The academy and legitimate spaces of knowledge production: Black feminist interventions.*

Discussant(s): Carmen Brysch, Auburn University

**4548. Modernity, Space and Gender 2 (Sponsored by Geographic Perspectives on Women Specialty Group)**

*Room:* Beacon D, Sheraton, Third Floor (Paper Session)  
ORGANIZER(S): Alexandra Staub, Pennsylvania State University  
CHAIR(S): Alexandra Staub, Pennsylvania State University  
**3:20** Tsz Ting (Penn) Ip\*, University of Amsterdam, *Single Women Walking Down the Cheap Road: Modernity and Migration in Shanghai.*

**3:40** Bülent Batuman\*, Bilkent University, *Appropriating the Masculine Sacred: Islamism, Gender and Mosque Architecture in Contemporary Turkey.*

**4:00** Eda Acara\*, Middle East Technical University, *Urban Policy Planning and Local Governments, Gender of*

**SATURDAY, April 8 • 3:20 PM - 5:00 PM • 4500***Rural Modernities and Water Pollution.*

Discussant(s): Alexandra Staub, Pennsylvania State University

**4549. Fluvial Forms and Processes II (Sponsored by Geomorphology Specialty Group)**

Room: Beacon E, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Kory M. Konsoer, Louisiana State University; Inci Guneralp, Texas A&amp;M University

CHAIR(S): Inci Guneralp, Texas A&amp;M University

**3:20** Peng Gao\*, Syracuse University; Zhiwei Li, School of Hydraulic Engineering, Changsha University of Science & Technology, Changsha, China 410114; Donald Siegel, Department of Earth Science, Syracuse University, Syracuse, New York, USA 13244, *Mechanics of peatland reduction in the Zoige region within the Qinghai-Tibet Plateau, China.*

**3:40** Kory M. Konsoer\*, Louisiana State University; Derek M Richards, Louisiana State University; Christopher M Turnipseed, Louisiana State University; Clint M Willson, Louisiana State University, *Dynamics of neck cutoff processes on meander bends with complex planform geometries.*

**4:00** Reuben Allan Heine, PhD\*, Augustana College; Nicholas Pinter, PhD, University of California, Davis, *Levee Effects upon Flood Levels: An Empirical Assessment.*

**4:20** Quinn W Lewis\*, University of Illinois; Bruce L Rhoads, University of Illinois, *Mixing at Stream Confluences: Rates, Patterns, and Controlling Factors.*

**4:40** Inci Guneralp\*, Texas A&M University; Billy Hales, Texas A&M University, *Dynamic Modeling of Coevolving Floodplain Geomorphology and Vegetation in Lowland Meandering Rivers.*

**4550. Linguistic Geography 2 (Sponsored by Cultural Geography Specialty Group, Environmental Perception and Behavioral Geography Specialty Group, Communication Geography Specialty Group)**

Room: Beacon F, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Catherine E. Lee, University of Hawaii at Manoa

CHAIR(S): Catherine E. Lee, University of Hawaii at Manoa

**3:20** Kawelau Wright\*, University of Hawaii - Manoa, *The Renaming of Hawaii During its Territorial Period.*

**3:40** Greg Niedt\*, Drexel University, *Discourses in Place: Semiotics of Identity and Power in South Philadelphia.*

**4:00** Dominique Hetrick\*, West Chester University of Pennsylvania, *A Spatial Analysis of the Linguistic Landscape of Philadelphia.*

**4:20** Kathryn L. Hannum\*, Kent State University, *Language use and attitudes within the bilingual education system of Galicia, Spain.*

Discussant(s): Rhys Jones, University of Wales, Aberystwyth

**4553. Geographies of Sports**

Room: Dalton A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Lee Lines, Rollins College

**3:20** Ross Hamilton Martin\*, Texas State University - San Marcos, *Mountain Bikes as Geomorphic Agents.*

**3:40** Sai Leung Ng\*, The Chinese University of Hong Kong; Suet Yi Cheung, The Chinese University of Hong Kong; Wei Fang, The Chinese University of Hong Kong, *Impacts of extreme sports on a hiking trail in Hong Kong.*

**4:00** Paul Zunkel\*, Texas State University, *The Sensation-Seeking and Motivational Dimensions of Storm Chasers.*

**4:20** Lee Lines\*, Rollins College; Alberto Prieto-Calixto, Rollins College, *The Rise and Fall of Professional Jai Alai in the Americas.*

**4555. Geographies of Sex and Sexuality**

Room: Hampton A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Serena Olcuire

**3:20** Hee-seong Jeong, Master course\*, Kyung Hee University; Sang-Hyun Chi, Assistant Professor, Kyung Hee University, *Heteronormativity of Public Space in Korea Revealed by Korea Queer Culture Festival.*

**3:40** Manish Chalana\*, University of Washington, *Gayborhood of Different Strips: The Transforming Pike/Pine District in Seattle.*

**4:00** Rituparna Bhattacharyya\*, Alliance for Community Capacity Building in North East India, *The Imbroglia: Geographies of India's Missing Children.*

**4:20** Sean M. Crotty\*, Texas Christian University, *Mapping the Red-Light Network: The Economic Geography of Erotic Massage Parlors in Houston, Texas.*

**4:40** Serena Olcuire, PhD student\*, Sapienza Università di Roma, *Sexpelago. Geographies of Sex Work in Rome and their Lesson on Spatial Government.*

**4556. Environmental changes in China-2 (Sponsored by China Specialty Group)**

Room: Hampton B, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Xiaobo Su, University of Oregon

CHAIR(S): YANG Yumeng

**3:20** Yinghui Zhao\*, Siqi Li, *Estimation and Spatial-temporal Pattern of Forest Above-ground Biomass and NPP in Heihe Region, Heilongjiang Province, China.*

**3:40** Dandan Li\*, Beijing Normal University; Yuzhen Ma; Mingxin Tao, *Pollen assemblages of pollen traps in Daluoshan Mountain of Ningxia Province in China and their relationship with vegetation and climate.*

**4:00** Suhua Fu\*, Beijing Normal University, *Effect of different topographic data sources on soil loss estimation for a mountainous watershed in Northern China.*

**4:20** Keli Zhang\*, Beijing Normal University; Yue Yu, Beijing Normal University, *Evaluation of the influence of cultivation period on soil redistribution in northeastern China using magnetic susceptibility.*

**4:40** YANG Yumeng\*, Beijing Normal University; Juan DU, Beijing Normal University, *Evaluating the performance of TRMM satellite precipitation products with HEC-HMS in XIANG River Basin, China.*

**4557. Land use change in China-2 (Sponsored by China Specialty Group)**

Room: Gardner A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Xiaobo Su, University of Oregon

CHAIR(S): Zeliu Zheng, SUNY - Binghamton

**3:20** Tian Zhang\*, Peking University; Jian Peng, Peking University, *Spatial differentiation of HANPP in China.*

**3:40** Jun Yang\*, Nanjing university; Xianjin Huang, Nanjing university, *Urban Construction Land Intensive Use and Urbanization Process in China: A Case Study for Wuhan Urban Agglomeration.*

**4:00** Zeliu Zheng\*, SUNY - Binghamton, *Defining Metropolitan Area of Chongqing, China.*

**4:20** Hao Meng\*, Xianjin Huang, *Local Governors' Turnover and Carbon emissions in the Yangtze River Delta, China.*

**4:40** Qiao Zhiyang\*, *Theoretical analysis on "multiple planning integration" reform of China.*

**4558. Strategies for Integrating Spatial Skills across Pedagogies and Disciplines at all Levels (Sponsored by Geography Education Specialty Group)**

Room: Gardner B, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Cathleen McAnneny, University Of Maine Farmington

CHAIR(S): Cathleen McAnneny, University Of Maine Farmington

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**3:20** Matt McCourt\*, University of Maine at Farmington, *Hands-on Learning across Colleges and Generations: Geography and Early Childhood Education Students Make a Nature-based Playscape.*

**3:40** Cathleen McAnneny\*, University Of Maine Farmington, *Strategies for Integrating Spatial Skills across Pedagogies and Disciplines at all Levels.*

**4:00** Phil Gersmehl\*, Michigan Geographic Alliance, *Big Ideas + Neuroscience = Learning Progressions (?)*.

**4:20** David A. Parr\*, Metropolitan State University of Denver, *Group-based lab projects in GPS and GIS.*

**4:40** Katerina Klonari\*, University of the Aegean, *Role of geography studies in students' spatial abilities development.*

## 4559. Governing Mobility Through the European Union's 'Hotspot' Centres (I)

*Room:* Fairfax A, Sheraton, Third Floor (Panel Session)

ORGANIZER(S): Antonios Vradis, Loughborough University; Lauren Martin, Durham University; Evie Papada

CHAIR(S): Lauren Martin, Durham University

Panelists: Polly Pallister-Wilkins, University of Amsterdam; Anja Karlsson Franck, University of Gothenburg; Aila Spathopoulou, Kings College University

## 4560. Railways, High Speed Railways in the World (Sponsored by Economic Geography Specialty Group, Transportation Geography Specialty Group)

*Room:* Fairfax B, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Balázs Forman, Corvinus University of Budapest

CHAIR(S): Balázs Forman, Corvinus University of Budapest  
Introducer: Balázs Forman

**3:30** Yue Jing\*, *Competition between high-speed rail and air transportation services in China.*

**3:48** Yishan HOU\*, Peking University; Changchun FENG, Peking University, *The Spatial Impact of High Speed Railway: Cases from Chinese Urban Agglomerations.*

**4:06** Andrea Rolando\*, Politecnico di Milano, *New Geographies and Intangible Networks Inducted by the New High Speed Railway System in Northern Italy: the Possible Relationships between Infrastructures and Leisure.*

**4:24** Léa Ravensbergen\*, University of Toronto; Ron Buliung, PhD, University of Toronto; Meaghan Mendonca, Metrolinx; Naren Garg, Metrolinx, *Why not bike to the train station? Investigating the social and environmental correlates of integrating cycling with regional rail transit.*

## 4561. Feminist Economic Geography- Encountering the subject I (Sponsored by Geographic Perspectives on Women Specialty Group, Economic Geography Specialty Group)

*Room:* Jefferson, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Nancy Worth, University of Waterloo

CHAIR(S): Nancy Worth, University of Waterloo

**3:20** Natasha A. Webster\*, Stockholm University, *Rural-to-Rural Translocal Practices: Thai Women entrepreneurs in the Swedish countryside.*

**3:40** Belinda Dodson, PhD\*, University Of Western Ontario, *Vulnerable, Harnessable, Invisible: Narratives on Women's Mobility in Policy on Intra-Regional Migration in Southern Africa.*

**4:00** Jessa Loomis\*, University of Kentucky, *Facing your FICO: The Democratization of Finance and the Persistence of Poverty.*

**4:20** Shannon A. Black, Ph.D. Student\*, University of Toronto; Chloe Fox, Ph.D Candidate, University of Toronto; Dr. Deborah Leslie, University of Toronto, *Gender, precarity and hybrid forms of work identity in the virtual domestic arts and crafts.*

**4:40** Marguerite Van Den Berg\*, University of Amsterdam, *Dressing the Urban Precariat - Aesthetic pedagogies*

*and clumsy masculinities in dress advice for the precarious.*

## 4562. Emancipatory Horizons of an Urban Century: Interrupting the Anthro-Obscene

*Room:* Kent, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Henrik Ernstson, University of Cape Town & KTH Royal Institute of Technology; Erik Swyngedouw, University of Manchester

CHAIR(S): Henrik Ernstson, University of Cape Town & KTH Royal Institute of Technology

**3:20** Andrés Fabián Henao Castro, University of Massachusetts Boston; Henrik Ernstson\*, University of Cape Town & KTH Royal Institute of Technology, *"Hic Rhodus, Hic Salta!" Postcolonial Remains and The Politics of the Anthro-ob(S)cene.*

**3:40** Jason W. Moore\*, Binghamton University, *Our Capitalogenic World: Accumulation by Appropriation and the Unmaking of Cheap Nature.*

**4:00** Garth Myers, Trinity College, *The Grassroots and the Politics of Africa's Urban Environments.*

**4:20** Oli Mould\*, Royal Holloway, University of London, *The Seven Ethics of Urban Subversion.*

Discussant(s): Henrik Ernstson, University of Cape Town & KTH Royal Institute of Technology

## 4563. Skilled Worker Migration (Sponsored by Population Specialty Group, Urban Geography Specialty Group, Economic Geography Specialty Group)

*Room:* Commonwealth, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Mark Ellis, University of Washington; Richard A. Wright, Dartmouth College

CHAIR(S): Mark Ellis, University of Washington

**3:20** Micheline Van Riemsdijk\*, University of Tennessee; Scott Basford, Oak Ridge National Laboratory, *Integration of Foreign-Born Engineers in the Workplace: A Multi-Scalar Approach.*

**3:40** Richard A. Wright\*, Dartmouth College; Mark Ellis, U Washington; Lee Fiorio, U Washington, *Migration propensities among STEM and non-STEM degree holders in the United States.*

**4:00** Mark Ellis\*, University of Washington; Richard Wright, Dartmouth College; Lee Fiorio, University of Washington, *The Attraction of STEM Agglomerations for STEM and Non-STEM Degree Migrants in the United States.*

**4:20** Thomas J. Cooke\*, University of Connecticut, *Institutional Barriers to Internal Migration in the United States.*

**4:40** Kyle Walker\*, Texas Christian University, *The separate destinations of Millennials in US metropolitan areas.*

## 4564. Into the Void IV: Absent (Sponsored by Cultural Geography Specialty Group)

*Room:* Boylston, Marriott, First Floor (Paper Session)

ORGANIZER(S): Paul T. Kingsbury, Simon Fraser University; Anna J Secor, University of Kentucky

CHAIR(S): Paul T. Kingsbury, Simon Fraser University

Introducer: Anna J Secor

**3:25** Morgan Meyer\*, AgroParisTech, *Tracking silence: techniques, places, people, and politics.*

**3:40** Ulf Strohmayer\*, National University of Ireland, Galway, *Urban renewal and the challenge of absence: the 'hole' ('trou') of Paris, 1973.*

**3:55** Sarah A. Moore\*, University of Wisconsin - Madison, *Refuse and Refusal: Waste, Anxiety and Desire in the Capitalist Discourse.*

**4:10** Kai A. Bosworth\*, University of Minnesota, *"The crack in the earth": environmentalism after speleology.*

Discussant(s): Paul T. Kingsbury, Simon Fraser University



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ORGANIZER(S): Sutapa Chattopadhyay, UNU-Merit &amp; Maastricht University; Pierpaolo Mudu, University of Washington - Tacoma

CHAIR(S): Emily Gilbert, University of Toronto

Introducer: Pierpaolo Mudu

Discussant(s): Jessica Dempsey, University of Victoria; Silvia Federici

Panelists: Leah Montange, University of Toronto; Sutapa Chattopadhyay, UNU-Merit &amp; Maastricht University; Rosemary-Claire Collard, Concordia University; Deborah Dixon, University of Glasgow

**4567. Gendered Geographies of (Dis)Organized Violence (Sponsored by Political Geography Specialty Group)****Room:** Columbus 2, Marriott, First Floor (Paper Session)

ORGANIZER(S): Jennifer Greenburg, Brown University; Erin Collins, American University

CHAIR(S): Erin Collins, American University

**3:20** Jennifer Greenburg\*, Brown University, *New military femininities: humanitarian violence and the gendered work of war.***3:40** Lynn Marie Selby\*, Université d'Etat d'Haïti, *Local Criticism and Hetero-patriarchal National Political Theater in the Wake of Hurricane Matthew in Haiti.***4:00** Deborah Cohler\*, San Francisco State University, *Homefront Gender Politics: military spouses and the labor of Family Readiness Groups.***4:20** Henri Myrntinen\*, Mauerpark Institut, *UN-Protected: Gender, Race and the Spatial Dynamics of Sexual Violence in Peacekeeping.*

Discussant(s): Lisa Bhungalia, University of Pittsburgh

**4568. Hazards and Vulnerability****Room:** St. Botolph, Marriott, Second Floor (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Asif Ishtiaque, Arizona State University

**3:20** Ashley Allen\*, Louisiana State University, *Surviving the Storm: Impacts of Tornadoes on Individual Identity.***3:40** Leonidas Nibigira\*, Department of Geology, Environment and Geohazards, University of Liège, B-4000 Liège, Belgium; Pierre Ozer, Department of Science and Environmental Management, University of Liège, B-6700 Arlon; Hans-Balder Havenith, Department of Geology, Environment and Geohazards, University of Liège, B-4000 Liège, Belgium, *Analysis of migration in a multi-risk context: Case of Bujumbura/Burundi.***4:00** Neil Oculi\*, University of Connecticut, *Socioclimatic Analysis Loss and Damage for Alliance of Small Island States AOSIS at 1.5 °C.***4:20** Steven Corns\*, Missouri University of Science and Technology; Ebin Antony, Missroui University of Science and Technology; Suzanna Long, Missroui University of Science and Technology; Tom Shoberg, CEGIS, U.S. Geological Survey, *Adaptive Architectures for Complex Restoration Schemes.***4:40** Asif Ishtiaque\*, School of Geographical Sciences & Urban Planning, Arizona State University; David J. Yu, Lyles School of Civil Engineering, Purdue University, *Resilient yet vulnerable: A case of scale challenges posed by adaptation actions in coastal Bangladesh.***4569. Reweaving the Urban Socio-ecological Fabric I: Green infrastructure, urban agriculture, and social justice (Sponsored by Cultural and Political Ecology Specialty Group, Human Dimensions of Global Change Specialty Group, Urban Geography Specialty Group)****Room:** Regis, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Sara Meerow, University of Michigan; Alec

Foster, University of Michigan

CHAIR(S): Sara Meerow, University of Michigan

**3:20** Sara Meerow\*, University of Michigan, *Ecosystem service tradeoffs and synergies: Green infrastructure spatial planning in three coastal megacities.***3:38** Megan Elizabeth Betz\*, Indiana University, *Beginning to analyze the concept of "community" in U.S. community orchards.***3:56** John Brooks Binau\*, University of Maryland - Baltimore County; Maggie Holland, PhD, University of Maryland Baltimore County - Department of Geography and Environmental Systems, *Mapping the flow of food from Baltimore urban farms.***4:14** Jaime Speed Rossiter\*, San Diego State University; Pascale Joassart-Marcelli, PhD, San Diego State University, *Urban sustainability for whom?: Socio-ecological benefits and tradeoffs of community gardening in San Diego CA.***4:32** Michael H. Finewood\*, Pace University; Marissa Matsler, Portland State University, *Governing Through Barriers: An Urban Political Ecology of Green Infrastructure Implementation in Pittsburgh, PA.*

Discussant(s): Joshua P. Newell, University of Michigan

**4570. Revolutionary Methodologies I (Sponsored by Socialist and Critical Geography Specialty Group)****Room:** Northeastern, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Margath A. Walker, University of Louisville; Emmanuel Frimpong Boamah

CHAIR(S): Daniel G. Cockayne, University of Waterloo

**3:20** Melinda Alexander, PhD\*, Northern Virginia Community College, *Belonging With the Lost Boys: the Mobilization of Audiences and Volunteers at a Refugee Community Center.***3:40** Michael W. Pesses\*, Antelope Valley College, *Orienting the Map: Toward a Cartographic Queer Phenomenology.***4:00** Margath A. Walker\*, University of Louisville; Emmanuel Frimpong Boamah, PhD Fellow, University of Louisville, *Map the gap: alternative visualizations of geographic knowledge production.***4:20** Carrie Mott, PhD\*, Rutgers University; Daniel Cockayne, PhD, University of Waterloo, *Conscientious engagement: mobilizing the politics of citation toward an anti-racist feminist critique of embodied academic authority.*

Discussant(s): Nicholas Jon Crane, University of Wyoming

**4571. Feminist approaches to a changing climate (Sponsored by Climate Specialty Group)****Room:** Brandeis, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Miriam Burke, Royal Holloway, University of London

CHAIR(S): Harriet Hawkins, Royal Holloway, University of London

**3:20** Natali Caceres-Arteaga\*, Central University of Ecuador, *Gender in Climate Change Public Policies in Ecuador.***3:40** Andrew Jonathan Telford\*, Durham University, United Kingdom, *Young, male, anti-Western and radicalized: An exploration of intersectional masculinities in US and EU climate security discourses.***4:00** Teo Wickland\*, UCLA Department of Urban Planning, *Transportation and Extraction: Who has to die so I can drive to work?.***4:20** Miriam Burke\*, Royal Holloway, University of London, *Threads, ties and tangles: exploring the idea of 'more than human' social reproduction as a means to cultivate caring practices for the climate using participatory art practices..***4:40** Laura Denning\*, NA, *Island.***4572. Participation in Marine Ecosystem-Based Management 3****Room:** MIT, Marriott, Third Floor (Paper Session)



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ORGANIZER(S): Aria Ritz Finkelstein, MIT; Wesley Flannery  
CHAIR(S): Aria Ritz Finkelstein, MIT

**3:20** Ian Rossiter\*, University of Georgia, *Shrimps in Space! Investigating Contentious Spatialities of Commercial Fishing and Spaceport Industries.*

**3:40** Karen A Alexander, PhD\*, University of Tasmania, *Challenges and tensions in marine and coastal ecosystem based management: research into 'sectoral interplay'.*

**4:00** Robert Allen Sirk\*, Austin Peay State University, *Global Economics v the Regional Environment: Sacrificing Continental North America's Only Coral Reef Ecosystem for the PortMiami Deep Dredge Project.*

**4:20** Apostolos G. Papadopoulos\*, Harokopio University, Department of Geography; Christos Chalkias, Harokopio University, Department of Geography; Vassilis Detsis, Harokopio University, Department of Home Economics and Ecology; Loukia-Maria Fratsea, Harokopio University, Department of Geography; Efthymios Karymbalis, Harokopio University, Department of Geography; George Mavrommatis, Harokopio University, Department of Geography, *Fisheries Co-management and 'the commons' in crisis-stricken Greece: Engaging Local Stakeholders against the Challenges of Various Environmental and Social Conflicts.*

**4:40** Kathryn K Davies, PhD, National Institute of Water & Atmospheric Research; Kimberly H Maxwell, MSc, Victoria University; Kelly AM Ratana, MSc, National Institute of Water & Atmospheric Research; Shaun Awatere, PhD, Landcare Research, *Mauri Moana, Mauri Tangata, Mauri Ora - Accounting for social values of the sea.*

## 4573. Critical Worldbuilding 2: Counterfactuals and building alternative futures (Sponsored by Cultural and Political Ecology Specialty Group, Cultural Geography Specialty Group, Communication Geography Specialty Group)

Room: Boston University, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Jeffrey Vance Martin, University of California - Berkeley; Gretchen Leigh Sneegas, University of Georgia

CHAIR(S): Gretchen Leigh Sneegas, University of Georgia

**3:20** Marguerite L. De Loney\*, Stanford University, *Mapping the Emancipatory World-Building of Afro-futurism and Black Science-Fiction.*

**3:40** Alexander Tarr, PhD\*, Worcester State University, *What, no wonderful world? The California Dream and A Post-Scarcity Nightmare.*

**4:00** Heather Whipple\*, Brock University, *Writing Spaces for New Creations.*

Discussant(s): Gretchen Leigh Sneegas, University of Georgia

## 4574. Symposium on Human Dynamics in Smart and Connected Communities: Spatial Humanity in the Digital Era I (Sponsored by Geographic Information Science and Systems Specialty Group, Cartography Specialty Group)

Room: Simmons, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Chen-Chieh Feng, Geography, National University of Singapore; Yi-Chen Wang, National University of Singapore; Ick Hoi Kim, National University of Singapore

CHAIR(S): Chen-Chieh Feng, Geography, National University of Singapore

**3:20** Bing Sheng Wu\*, Nanyang Technological University; Ivy Lim, Nanyang Technological University, *Spatial-Temporal Representations of Local History: Digital Humanities in Puyuan, Zhejiang, China.*

**3:40** Ick Hoi Kim\*, National University of Singapore; Kenneth Dean, National University of Singapore, *Implementation of a Web Portal Prototype for Spatial Humanity.*

**4:00** Kenneth Dean\*, NUS; Ick-Hoi Kim, Dr., NUS Geography, *Socio-cultural analysis using historical GIS databases: case studies from Putian, China and Singapore.*

**4:20** Margherita - Azzari, Professor\*, Università degli Studi di Firenze; Fulvio - Landi, Università di Firenze, *Landscapes and local identities. A geo-historical integrated approach for the analysis of cultural landscape.*

**4:40** Shengda Zhang\*, University of Hong Kong, *Temporal-Spatial Pattern of Warfare in Imperial China: A New Perspective.*

## 4575. Symposium on Human Dynamics in Smart and Connected Communities: Spatial-Social Networks in GIS 9 (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group, Spatial Analysis and Modeling Specialty Group)

Room: Suffolk, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Xinyue Ye, Kent State University; Xingjian Liu, University of Hong Kong; Clio Andris

CHAIR(S): Aniruddha Banerjee, Indiana U Purdue U Indianapolis

**3:20** Xiaojun You\*, East China Normal University, *Location, location, location. Does location matter for research collaboration between universities? An empirical study on research collaboration networks in Greater Boston.*

**3:40** Aniruddha "Rudy" Banerjee, Associate Professor\*, Indiana U Purdue U Indianapolis, *Is there a Canonical Form for the UGCop (Uncertain Geographic Context Problem)?.*

**4:00** Maxime Houde\*, INRS Urbanisation Culture Société; Philippe Apparicio, INRS Urbanisation Culture Société; Anne-Marie Séguin, INRS Urbanisation Culture Société, *A ride for whom? Bicycle network accessibility as an environmental equity issue.*

**4:20** Sheng Pan\*, *An analyse of village and town patterns based on RS and GIS -A Case Study of Huairou District, Beijing.*

## 4576. Rural Geography in Africa, Asia, and Middle and South America (Sponsored by Rural Geography Specialty Group)

Room: Wellesley, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Dawn M. Drake, Missouri Western State University

CHAIR(S): Dawn M. Drake, Missouri Western State University

**3:20** Dorothy W Drummond\*, Indiana State University, *Empowerment of Women through a Microfinance project in West Bengal.*

**3:40** Arunsrinivasan Ponshunmugam\*, Dartmouth College, *The Making of a Patient: Healthcare Access in South Africa.*

**4:00** Lassane YAMEOGO\*, Université Ouaga 1 Pr Joseph Ki Zerbo, *From drifts of hydraulic territorialisation in the Kou valley (Burkina Faso) to territorial reconfiguration.*

**4:20** Helen Rosko\*, Clark University, *Agropastoral Discourse in the Sahel: Challenges and Opportunities.*

**4:40** Maria Fernanda Lopez\*, FLACSO Ecuador, *Individual land titling, land claims and management effectiveness in mix-use protected areas: a case in Ecuador.*

## 4577. What's School Got to Do with It?: Race, Resistance, and a Call for Critical Geographies of Education 2 (Sponsored by Political Geography Specialty Group, Cultural Geography Specialty Group, Ethnic Geography Specialty Group)

Room: Harvard, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Nicole Nguyen, University of Illinois - Chicago; Dan Cohen, University of British Columbia; Alice Huff, 1976

CHAIR(S): Nicole Nguyen, University of Illinois - Chicago

**3:20** Gloria Howerton\*, University of Georgia, *Borderland Classrooms: The Arizona Ethnic Studies Ban and the*

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*Construction of the "Individual" American Citizen.*

**3:40** Jenna Christian\*, Pennsylvania State University, *Race, citizenship, and state violence: weaving together militarized education and social movements in Houston, Texas.*

**4:00** Nora Nafaa\*, University of Perpignan, *"We All Count, We Will Not Be Erased": Education, Race and Grassroots Struggles..*

**4:20** Alice Huff\*, University of California, Los Angeles, *Why We Fight: Conceptualizing Schooling (In)Justice in Post-Katrina New Orleans.*

Discussant(s): Dan Cohen, University of British Columbia

## 4579. Land Change 8: Modeling change (Sponsored by Cultural and Political Ecology Specialty Group, Remote Sensing Specialty Group, Human Dimensions of Global Change Specialty Group)

Room: Arlington, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Richard J. Aspinall

CHAIR(S): Kyle Flanagan

**3:20** Jing Deng\*, University of North Carolina - Charlotte, *Simulation of Regional Land Development Pattern based on Actual Parcels.*

**3:40** Pariya Pourmohammadi\*, West Virginia University; Michael P Strager, West Virginia University, *Predicting land conversion in Appalachian Watershed: A comparison of four Machine Learning Techniques.*

**4:00** Tianren Yang\*, University of Cambridge; Ying Jin, University of Cambridge, *The Dynamics of Urban Land Development under Accelerated Urbanization: Insights from Online Administrative Data in Shanghai.*

**4:20** Xiaoya Ma\*, School of Resource and Environmental Science, Wuhan University; Wenwu Tang, Department of Geography and Earth Sciences, University of North Carolina at Charlotte; Xiang Zhao, School of Resource and Environmental Science, Wuhan University, *Optimizing Land-use allocation by using multi-objective artificial immune algorithm and multi-agent system..*

**4:40** Kyle Flanagan\*, USFSP; Barnali Dixon, Dr., USFSP, *Integration of Terrestrial Source, Landuse, and Watershed Hydrogeology in MPA Management using SWAT.*

## 4580. Interworking of Colonialism and Capitalism II

Room: Berkeley, Marriott, Third Floor (Panel Session)

ORGANIZER(S): Vanessa Sloan Morgan, Queen's University; Michelle D. Daigle, University of British Columbia;

Michael P C Krebs, University of British Columbia

CHAIR(S): Vanessa Sloan Morgan, Queen's University

Discussant(s): Michelle D. Daigle, University of British Columbia; Iyko Day, Mount Holyoke College

Panelists: Michael P C Krebs, University of British Columbia; Madeline Whetung; Geoff Mann, Simon Fraser University; Shiri Pasternak, Columbia University

## 4581. Framing urban sustainability: Smart, efficient, green, or just 3 (Sponsored by Human Dimensions of Global Change Specialty Group, Urban Geography Specialty Group, Energy and Environment Specialty Group)

Room: Clarendon, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Heather Sander, University of Iowa; Peleg Kremer, Villanova University

CHAIR(S): Peleg Kremer, Villanova University

**3:20** Mirjam Schindler, Institute of Geography and Spatial Planning, University of Luxembourg; Marion Le Texier, Université de Rouen; Geoffrey Caruso, Institute of Geography and Spatial Planning, University of Luxembourg, *Location and socio-economic sorting in the use of green space: evidence from Brussels.*

**3:40** Heather A Sander, PhD\*, University of Iowa; Cody B Hodson, University of Iowa; Chang Zhao, University

of Iowa, *A framework for assessing urban social and environmental sustainability.*

**4:00** Dustin L. Herrmann\*, Oak Ridge Institute for Science and Education affiliate with US Environmental Protection Agency, Cincinnati, Ohio, USA; Kirsten Schwarz, Department of Biological Sciences, Northern Kentucky University; Timothy M. Bowles, Department of Natural Resources and the Environment, University of New Hampshire; Wen-Ching Chuang, Natural Research Council affiliate with US Environmental Protection Agency, Cincinnati, OH; Ahjond S. Garmestani, National Risk Management Research Lab, US Environmental Protection Agency, Cincinnati, OH; Tarsha Eason, National Risk Management Research Lab, US Environmental Protection Agency, Cincinnati, OH; William D. Shuster, National Risk Management Research Lab, US Environmental Protection Agency, Cincinnati, OH, *An Agroecological Approach to Managing for Resilience in Shrinking Cities.*

**4:20** Chang Zhao\*, University of Iowa; Heather A Sander, University of Iowa, *Wild pollinators and urban agriculture: Assessing pollination supply and demand across urban landscapes.*

Discussant(s): Peleg Kremer, Villanova University

## 4582. Spatializing Race III: Building a sustainable space of intellectual exchange: A Journal Conversation

Room: Dartmouth, Marriott, Third Floor (Panel Session)

ORGANIZER(S): Beverley Mullings, Queen's University; Rupal Oza, CUNY - Graduate Center; Patricia Noxolo, School of Geography, Earth and Environmental Sciences

CHAIR(S): Rupal Oza, CUNY - Graduate Center

Introducer: Rupal Oza

Discussant(s): Beverley Mullings, Queen's University

Panelists: Patricia Noxolo, School of Geography, Earth and Environmental Sciences; Lawrence D. Berg, University of British Columbia; Rickie Sanders, Temple University

## 4583. Geographies of Slow Violence 4

Room: Exeter, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Rachel Pain, University Of Durham; Caitlin Cahill, Pratt Institute

CHAIR(S): Caitlin Cahill, Pratt Institute

**3:20** Thom Davies, Dr\*, University of Warwick, *'If you stay here you die': resisting and observing slow violence along the fenceline.*

**3:40** Yogesh Mishra, PhD Scholar\*, Indian Institute of Science Education and Research Mohali, *Dispersed violence and veiled resistance in the Kashmir Valley.*

**4:00** Alexander Vorbrugg\*, Goethe University Frankfurt, *Dispersed Dispossession. On the Slow Violence of Disintegration in Rural Russia.*

**4:20** Shona Loong\*, National University of Singapore, *Invisibility and amnesia: spaces of attritional violence along the Thai-Myanmar border.*

Introducer: Caitlin Cahill

## 4584. Alternative urban practices and politics in neoliberal contexts : a critical approach (Sponsored by Urban Geography Specialty Group)

Room: Fairfield, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Nora Nafaa, University of Perpignan; Mikel Agirre, UPVD (France) & UPV/EHU (Spain)

CHAIR(S): Max Rousseau

**3:20** Giorgos Koukoulakis\*, Gran Sasso Science Institute, *The City in the Post-growth Society - A Conceptual Framework.*

**3:40** Max Rousseau\*, CIRAD, *Urban degrowth and alternative redevelopment policies : analysing the rise of subaltern urbanism in the hyperghetto of Cleveland, Ohio.*

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**4:00** Margaux Vigne\*, CRENAU, UMR AAU ECN/MCC/CNRS 1563, *Between alternatives and models. Observing the impacts of institutional experiments implemented in inhabitants involvement devices in public space development projects in Nantes and Brussels.*

**4:20** Marion Ernwein\*, University of Oxford, *An alternative to what? On urban agriculture's contradictory contributions to (post)neoliberal urbanism.*

**4:40** Benjamin Gayon\*,

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**4:40** Benjamin Gayon\*, *Land regulation policies on the French Basque coast : an example of emergence and organization of alternative local actors*

## **4585. Cities & Data Beyond Smart Urbanism (Sponsored by Urban Geography Specialty Group)**

**Room:** Salon H, Marriott, Fourth Floor (Paper Session)

**ORGANIZER(S):** Agnieszka Leszczynski, University of Auckland; Taylor Shelton, University of Kentucky

**CHAIR(S):** Taylor Shelton, University of Kentucky

**3:20** John Stehlin\*, University of California, Berkeley, *"To Track And Monetize Anything That Moves": Emerging Measurement Techniques for New (Old) Mobilities.*

**3:40** Susan Moore\*, University College London; Scott Rodgers, Birkbeck, University of London; Andrea Ballatore, Birkbeck, University of London, *Planning, platforms and participation: emergent social media uses around local urban change.*

**4:00** Tim Highfield, Dr, Queensland University of Technology; Peta Mitchell, Dr\*, Queensland University of Technology, *Algorithmic Surveillance and Urban Ambient Geodata.*

**4:20** Britta Ricker, PhD\*, University of Washington Tacoma, *A case for participatory augmentation of smart cities and open data.*

## **4586. Trees in the City 3: Social and Ecological Influences in the Urban Forest (Sponsored by Cultural and Political Ecology Specialty Group, Human Dimensions of Global Change Specialty Group, Urban Geography Specialty Group)**

**Room:** Salon I, Marriott, Fourth Floor (Paper Session)

**ORGANIZER(S):** Shawn Landry, University of South Florida; Tenley Conway, University of Toronto- Mississauga

**CHAIR(S):** Shawn Landry, University of South Florida

**3:20** Camilo Ordóñez, PhD\*, Urban Forest Research & Ecological Disturbance (UFRED) Group, Ryerson University; Andrew A Millward, PhD, Ryerson University, Geography and Environmental Studies; Vadim Sabetski, MSA, Urban Forest Research & Ecological Disturbance (UFRED) Group, Ryerson University; Amber Grant, MASc Candidate, Urban

Forest Research & Ecological Disturbance (UFRED) Group, Ryerson University; James Steenberg, PhD, School for Resource and Environmental Studies, Dalhousie University, *Socio-ecological dynamics of street tree planting in revitalized commercial urban spaces using structural soil cell technology: the case of Bloor Street, Toronto, Canada.*

**3:40** Sagert Sheets\*, University of New Mexico, *Xeriscaping and Tree Mortality in Albuquerque: A Remote Sensing Analysis.*

**4:00** Vivian Yip\*, University of Toronto; Tenley Conway, University of Toronto, *Species diversity and preferred attributes of trees: a case study of the private urban forest in the Greater Toronto Area.*

**4:20** James W. N. Steenberg\*, Dalhousie University; Pamela J Robinson, Ryerson University; Peter N Duinker, Dalhousie University, *Counter-intuitive Relationships Between Housing Renovation, Socioeconomic Status, and Urban Forest Ecosystems.*

**4:40** Talha Khan, MSc\*, University of Toronto - Mississauga; Tenley Conway, PhD, University of Toronto - Mississauga, *Assessing local and regional climate vulnerability of the urban forest: a case study of Mississauga, Ontario..*

## **4587. Microbial Matters: Towards a Geography of the Microbiome. (Sponsored by Health and Medical Geography Specialty Group, Animal Geography Specialty Group)**

**Room:** Salon J, Marriott, Fourth Floor (Paper Session)

**ORGANIZER(S):** Mohammed Rafi Arefin, University of Wisconsin - Madison - Madison, WI; Travis J. De Wolfe, University of Wisconsin - Madison; Nicholas Anderman, University of California - Berkeley

**CHAIR(S):** Nicholas Anderman, University of California - Berkeley

**3:20** Travis J. De Wolfe, M.S.\*., University of Wisconsin - Madison; Nicholas Anderman\*, University of California - Berkeley; Mohammed Rafi Arefin, University of Wisconsin - Madison, *Geographies of the Microbiome.*

**3:40** Xander Lenc\*, UC Berkeley, *Spores, Dust, and People: Mass Incarceration and a Fungal Infection in the Central Valley.*

**4:00** Sophie Strosberg\*, University of Minnesota, *Microbes, Disease, and Lay Expertise.*

**4:20** J. Anthony Stallins\*, University of Kentucky, *Spatialities of Difference and the Study of the Human Microbiome: A Pragmatist Guide To Living with Microbes.*

**Discussant(s):** Jamie Lorimer, University of Oxford

## **4588. Infrastructures of climate governance I: Physical infrastructure (Sponsored by Cultural and Political Ecology Specialty Group, Energy and Environment Specialty Group, Economic Geography Specialty Group)**

**Room:** Salon K, Marriott, Fourth Floor (Paper Session)

**ORGANIZER(S):** Sophie Webber, UCLA; Tyler Harlan, University of California, Los Angeles

**CHAIR(S):** Tyler Harlan, University of California, Los Angeles

**3:20** Tyler Harlan\*, University of California, Los Angeles, *Small hydropower and the low-carbon frontier in China.*

**3:40** Rebecca Elliott\*, London School of Economics, *Non-Structural Infrastructures: Flood Insurance as a Technique of Climate Governance.*

**4:00** Kwame Ntiri Owusu-Daaku\*, University of South Carolina, *Mapping the International Actors Involved in the Funding and Implementation of Sea Defense Systems in the Volta River Delta of Ghana.*

**4:20** Lauren Gifford\*, University of Colorado, Boulder, *Ties that bind: Forest carbon, conservation funding, and climate change mitigation.*

**4:40** Kimberley A Thomas, PhD\*, University of Pennsylvania, *The Biopolitics of Climate Finance in the Asian Water Sector.*



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## 4589. Spatial Memory of the Holocaust (2) (Sponsored by Historical Geography Specialty Group)

Room: Vineyard, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Janet Ward, University of Oklahoma

CHAIR(S): Boris Michel, Universität Erlangen-Nürnberg

Introducer: Boris Michel

3:30 Alberto Giordano\*, Texas State University, *From the National to the Individual: A Narrative of the Holocaust in Italy*.

3:50 Janet Ward\*, University of Oklahoma, *Lublin, Poland: Re-Visualizing the Final Solution's Administrative Epicenter*.

4:10 Maleea Acker\*, University of Victoria, *Loss in and out of place: a creative exploration*.

4:30 Hannah Pollin-Galay, PhD\*, University of Massachusetts Amherst, *"When the Index is Wrong: Mapping Black Holes in Victim Memory"*.

Discussant(s): Kenneth E. Foote, University of Connecticut

## 4590. Perspectives on Migration: Local to Global Dimensions II (Sponsored by Africa Specialty Group)

Room: Yarmouth, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Raymond Asare Tutu, Delaware State University; John Kwame Boateng, University of Ghana

CHAIR(S): Raymond Asare Tutu, Delaware State University

3:20 Anthony Knapp\*, U.S. Census Bureau; C Peter Borsella, U.S. Census Bureau, *A Typology of International Migrant Destinations in the United States Using the U.S. Census Bureau's Population Estimates*.

3:40 Petr Dostál\*, Charles University in Prague, *Immigration And Refugee Crisis: Articulations Of Public Opinion Across The European Union*.

## 4591. Urban Economies and the Ordinary Life I: Housing and Real Estate

Room: Nantucket, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): John Miron, University of Toronto

CHAIR(S): Cheol-Ho Lee, Southern California Association of Governments

3:20 Adele Cassola, PhD Candidate\*, Columbia University; Valerie Stahl, PhD Student\*, Columbia University, *Displacing the 'Invisible': Mapping the Relationship between Gentrification and Homelessness in New York City's Neighborhoods*.

3:40 Shan Jiang\*, MIT; Joseph Ferreira, MIT, *Household Activity Profiles, Lifestyles, and Residential Choice: A Case Study of Singapore*.

4:00 Cheol-Ho Lee\*, Southern California Association of Governments, *Identifying Newly Constructed Residential Parcels for Housing Unit Estimation*.

## 4592. Geospatial Health Research Symposium: Chronic Diseases II (Sponsored by Geographic Information Science and Systems Specialty Group, Spatial Analysis and Modeling Specialty Group, Health and Medical Geography Specialty Group)

Room: Provincetown, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Eric M. Delmelle, University of North Carolina at Charlotte; Mei-Po Kwan, University of Illinois at Urbana-Champaign; Michael J. Widener, University of Toronto

CHAIR(S): Trevor M. Harris, West Virginia University

3:20 Trevor M. Harris\*, West Virginia University; Frank Lafone, West Virginia University, *Scaled analyses of childhood obesity in central Appalachia: food access and behavioral choices*.

3:40 Anna Banaszewska, MSA\*, Cancer Care Ontario, *The Power of the Postal Code: Using Location to Leverage Social Media to Increase Awareness for Breast Cancer Screening*.

4:00 Heather A. Hart, MSA\*, Cancer Care Ontario, *Using spatial analysis to help close the gap in cancer screening participation*.

4:20 Dajun Dai, Ph.D.\*, Department of Geosciences, Georgia State University, *Geographic Variation of Radon Concentrations in Relationship to Housing Characteristics*.

4:40 Diana H. Kim\*, University of Southern California; Loraine A. Escobedo, University of Southern California; Jennifer N. Swift, University of Southern California; Darren Ruddell, University of Southern California, *Sun Exposure Reduction Recommendations for Elementary School Playgrounds in Los Angeles: A Service Learning Project for Undergraduates*.

## 4593. Geographies of Trauma 2: War, identity, and ongoing trauma (Sponsored by Geographic Perspectives on Women Specialty Group)

Room: Orleans, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Sarah Stinard-Kiel, Temple University; Alisa Shockley, Temple University

CHAIR(S): Debanuj DasGupta, University of Connecticut

3:20 Marianne Blidon\*, Paris 1 University, *Scales and temporalities of geographies of trauma. The case of parisian jewish community*.

3:40 Jihwan Yoon\*, University of Tennessee, *Identity Formation of Comfort Women: Escape from Trauma of Sexual Slavery and Intersectional Margins*.

4:00 Daniel E. Esser\*, American University, *Patterns and predictors of urban residents' coping with violent state failure: survey results from Ciudad Juárez following the 2006-2012 Mexican drug war*.

4:20 Jordan Hill, PhD\*, University of Colorado - Denver, *Mobilizing Trauma/Transforming 'Never Forget': Mass Murder Memorials as Touchstones of 21st Century American Identity*.

Discussant(s): Debanuj DasGupta, University of Connecticut

## 4594. Spatiotemporal Symposium: High Performance Computing for Big Spatiotemporal Data Analytics (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group)

Room: Hyannis, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Zhenlong LI, University of South Carolina; Fei Hu, George Mason University; Kejin Cui, George Mason University

CHAIR(S): Qingfeng Guan, China University of Geosciences (Wuhan)

3:20 Xiang Zhao\*, School of Resource and Environmental Science, Wuhan University; Wenwu Tang, Department of Geography and Earth Sciences, University of North Carolina at Charlotte; Xiaoya Ma, School of Resource and Environmental Science, Wuhan University; Dianfeng Liu, School of Resource and Environmental Science, Wuhan University; Yaolin Liu, School of Resource and Environmental Science, Wuhan University, *A High Performance and Spatially Explicit Multi-objective Artificial Immune Algorithm for Large scale Land Use Allocation*.

3:40 Zhenlong LI\*, University of South Carolina; Michael Hodgson, University of South Carolina; Wenwen Li, Arizona State University, *A General-purpose Framework for Parallel Processing of Large-scale LiDAR Data*.

4:00 Shaohua Wang\*, Department of Geography, University of California, Santa Barbara; Ershun Zhong, Institute of Geographic Sciences and Nature Resources Research, CAS; Erqi Wang, SuperMap; Guanfu Song, SuperMap; Wenwen Cai, SuperMap; Yang Zhong, Claremont Graduate University, *The design and implementation of an open source GIS desktop for spatio-temporal big data*.

4:20 Qingfeng Guan\*, China University of Geosciences (Wuhan); Shishi Liu, Huazhong Agricultural University, *Combining a parallel processing library*



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and a parallel I/O library for big raster data.

Discussant(s): Eric Shook, University of Minnesota

- 4595. Modeling Human-Environment Interactions: Applications in the Urban Environment (Sponsored by Applied Geography Specialty Group, Spatial Analysis and Modeling Specialty Group)**  
*Room: Falmouth, Marriott, Fourth Floor (Paper Session)*  
 ORGANIZER(S): Opeyemi A. Zubair, Tarleton State University; Mbongowo Joseph Mbuh, University of North Dakota  
 CHAIR(S): Opeyemi A. Zubair, Tarleton State University  
**3:20** Hyun-Jin Seo, Kyungpook National University; Byong-Woon Jun\*, Kyungpook National University, *Modeling Future Urban Green Space in the Daegu Metropolitan City*.  
**3:40** NA DONG\*, The Chinese University of Hong Kong, *An Adaptive Modelling method of Regional Environmental Response: A Case Study of Land-use Change Impact*.  
**4:00** Gargi Chaudhuri\*, University of Wisconsin La Crosse, *Modeling urban growth in Eastern India using SLEUTH land use model*.  
**4:20** Chao Fan\*, The Field Museum; Mark Johnston, The Field Museum; Lindsay Darling, The Morton Arboretum; Lydia Scott, The Morton Arboretum, *Urban Forest Composition Mapping and Modeling: Understanding Our Trees and Making Them Grow Better*.  
**4:40** Opeyemi A. Zubair, Ph.D.\*, Tarleton State University; Wei Ji, Ph.D., University of Missouri-Kansas City, *Simulating the Impact of Urban Expansion on Urban Vegetal Cover*.
- 4596. Race, Space and Decolonization in Geography**  
*Room: Maine, Marriott, Fifth Floor (Paper Session)*  
 ORGANIZER(S): Stevie Raymond Ruiz, California State University - Northridge  
 CHAIR(S): Rebecca J. Kinney, Bowling Green State University  
**3:20** Genevieve Carpio\*, UCLA, *From Conquistadores to Pioneers: The Rise of the Anglo Fantasy Past*.  
**3:40** Keith Miyake, Ph.D.\*, University of California, Davis, *Environmental Injustice, Racial Capital, and the State, Oh My!*.  
**4:00** Juan Herrera\*, Oregon State University, *Spatial Theory from Bellow: Geographies of Racialized Difference and the Mechanics of Power in the Works of Frantz Fanon and Gloria Anzaldúa*.  
**4:20** Stevie Raymond Ruiz\*, California State University - Northridge, *Even the Rain: Racial Formation, Conquest and Water Management during the Federal Reclamation Movement*.  
 Discussant(s): Sherene Razack, UCLA
- 4597. Interdependent Challenges and Urban Living: Managing Complex Cities (2) (Sponsored by Economic Geography Specialty Group)**  
*Room: Massachusetts, Marriott, Fifth Floor (Paper Session)*  
 ORGANIZER(S): John R. Bryson, University of Birmingham; Vida Vanchan, SUNY Buffalo State  
 CHAIR(S): John R. Bryson, University of Birmingham  
 Introducer: Vida Vanchan  
**3:25** Yeong-Hyun Kim\*, Ohio University, *Much Too Global and Too Connected - Global Cities, Travelling Risks, and "New York Ebola Panic"*.  
**3:45** Aksel Ersoy\*, Oxford Brookes University, *Smart City Infrastructures: Governance, practice and process*.  
**4:05** Alister Scott\*, Northumbria University, *Planning for Green Infrastructure: A Missed Opportunity for Improved Urban Living?*.  
**4:25** Robert Winston Taylor, PhD\*, Montclair State University, *Housing Vulnerability in Coastal Cities: The New York-*

*North Jersey Urban Region.*

Discussant(s): Vida Vanchan, SUNY Buffalo State

- 4598. Neo-Extractivism, Resource Nationalism, and 'New' Geographies of Resource Governance and Development (4) (Sponsored by Political Geography Specialty Group, Cultural and Political Ecology Specialty Group, Development Geographies Specialty Group)**  
*Room: New Hampshire, Marriott, Fifth Floor (Paper Session)*  
 ORGANIZER(S): Emily Billo, Goucher College; Meredith J. DeBoom, University of Colorado at Boulder  
 CHAIR(S): Meredith J. DeBoom, University of Colorado at Boulder  
**3:20** Lindsey Carte\*, Universidad de la Frontera; Claudia Radel, Utah State University; Birgit Schmook, Colegio de la Frontera Sur, Chetumal; Richard Johnson, University of Arizona, *Agrarian extractivism and international migration in Guatemala*.  
**3:40** Laura A. Sauls\*, Clark University, *Neutralizing Threats, Capturing Benefits, Promoting Alternate Visions: The Mobilization of Indigenous Peoples and Forest-dependent Communities around REDD+ in Mesoamerica*.  
**4:00** Vijayeta Singh, Doctoral Candidate Law & Public Policy\*, Northeastern University, *Protests over Power: The Impact of Land Acquisition Struggles on Energy Megaproject Viability in Jharkhand*.  
**4:20** Juan Luis Dammert\*, Clark University, *The State on Demand: Mobilizing the State to Govern Oil Palm Expansion in the Peruvian Amazon*.  
**4:40** Anne Julia Kantel\*, School of International Service, American University, *The state, power, and the role of local knowledges: A genealogy of fisheries governance narratives in Uganda*.
- 4599. Regional Development and Urban Planning Series IV (Sponsored by Regional Development and Planning Specialty Group, Urban Geography Specialty Group, Development Geographies Specialty Group)**  
*Room: Vermont, Marriott, Fifth Floor (Paper Session)*  
 ORGANIZER(S): Zachary A. Jones, Eastern Michigan University  
 CHAIR(S): James Vaughan, University of Texas at San Antonio  
**3:20** Matthew Hunter\*, University of Toronto, *The Geography of Innovative Public Private Partnerships: The Red Door Family Shelter Project*.  
**3:40** Simon Dudek\*, Katholische Universität Eichstätt-Ingolstadt, *Towards a strategic-relational understanding of the production of space*.  
**4:00** Michael Murphy\*, Maynooth University, *Beyond the City: Towards a suburban research agenda*.  
**4:20** Manuel Alberto Florez\*, Department of Earth, Atmospheric and Planetary Sciences, MIT; Shan Jiang, Department of Civil and Environmental Engineering, MIT; Ruiqi Li, Department of Civil and Environmental Engineering, MIT; Carlos H Mojica, Transmilenio S.A., Bogota, Colombia; Ramiro A Rios, Inter-American Investment Corporation; Marta C González, Department of Civil and Environmental Engineering, MIT, *Socioeconomic development and well-being measured through the lens of Big Data --- A case study of Bogota*.  
**4:40** James W Vaughan, Ph.D., AICP\*, University of Texas at San Antonio, *Special Purpose Districts - Good Planning Practice, or Political Predation?*.

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Poster Sessions for Saturday are located on pages 322-326.

**4606. HGSG Plenary: Audrey Kobayashi - Distinguished Historical Geography Lecture (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme, Historical Geography Specialty Group)**

**Room:** Room 107, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): Kirsten Greer, Nipissing University  
 CHAIR(S): Kirsten Greer, Nipissing University  
**5:20** Audrey L. Kobayashi\*, Queen's University, *Historical Geography in the Service of Social Justice.*

**4607. Food Security and Resilience in Mountain Environments (Sponsored by Geographies of Food and Agriculture Specialty Group)**

**Room:** Room 108, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): Alder Keleman Saxena, Yale University; Alark Saxena, Yale University  
 CHAIR(S): Alder Keleman Saxena, Yale University  
**5:20** Sayd Priscilla Randle\*, Yale University, *Seeing like a Snowpack: Climate Resilience, Water Security, and the Sierra Nevadas.*  
**5:40** Alder Keleman Saxena, MEd, MA, MPH\*, Yale University; Ximena Cadima Fuentes, PhD, Fundación PROINPA; Debbie Humphries, PhD, Yale University, *The Vertical Archipelago in Contemporary Andean Food Systems: Inter-regional exchange and food system resilience.*  
**6:00** Ana Mahecha\*, Rutgers University, *Climate adaptation and alternative economic agri-food futures in the Capital-Region of Bogotá.*  
**6:20** Alark Saxena\*, Yale University; Alder Keleman Saxena, Yale University, *Understanding the Relationship Between Food Security and Resilience in Mountain Environments.*  
 Discussant(s): Bronwen Powell, Pennsylvania State University

**4608. Sexuality and Space Keynote: Dr. Treva Ellison -- Rethinking Homonormativity: The Un-Geographies of Gay Los Angeles (Sponsored by Sexuality and Space Specialty Group)**

**Room:** Room 109, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): Julie A. Podmore, John Abbott College  
 CHAIR(S): Farhang Rouhani, University of Mary Washington  
 Discussant(s): Treva Ellison; Megan Ybarra, University of Washington; Debanuj DasGupta, University of Connecticut

**4609. Water Management II: Social, Political and Cultural Issues (Sponsored by Water Resources Specialty Group)**

**Room:** Room 110, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): RDK Herman, National Museum of the American Indian  
 CHAIR(S): Patrick L. Lawrence, University of Toledo  
**5:20** Chih-Hao Wang\*, California State University, Fresno, *Do the neighbors affect your residential water consumption? Case study of Fresno, California.*  
**5:40** Danielle Purifoy, J.D., Ph.D candidate\*, Duke University; Torkwase Dyson, Visual Artist and Lecturer, Pratt Institute of Art, *In Conditions of Fresh Water: Querying Black Spatiality and Placemaking.*  
**6:00** Ian Liebentritt\*, SUNY - Buffalo, *Relationships Between Socioeconomic Factors and the Flint, Michigan Water Crisis.*  
**6:20** Anais De Keijser\*, Technical University Darmstadt, *The implications of system-D on the Just City concept: lessons from the case of Bujumbura's water provisioning system, Burundi.*  
**6:40** Patrick L. Lawrence\*, University of Toledo, *Engagement, Involvement and Key Roles of a Geographer(s) with a University Campus Effort towards River Restoration..*

**4610. Jeanne X. Kasperson Session 2 (Sponsored by Hazards, Risks, and Disasters Specialty Group)**

**Room:** Room 111, Hynes, Plaza Level (Paper Session)  
 ORGANIZER(S): Laura Kathryn Siebeneck, University of North Texas  
 CHAIR(S): Laura Kathryn Siebeneck, University of North Texas  
**5:20** Heng Cai, Louisiana State University; Nina Lam, Louisiana State University, *Modeling the Dynamics of Resilience using a Bayesian Network: The Case in the Lower Mississippi River Basin.*  
**5:40** Lukas Frank\*, University of Cergy-Pontoise; Lukas Frank, University of Cergy-Pontoise, *Floods and 3D geovisualizations.*  
**6:00** Elicia Mayuri Cousins, Northeastern University, *Hidden Sites of Resistance, Resilience, and Mobility: Nature-focused Evacuation Retreats for Children and Mothers from Fukushima, Japan.*  
**6:20** Charlotte Monteil\*, University of East Anglia; Peter Simmons, University of East Anglia; Anna Hicks, University of East Anglia, *Post-disaster recovery: immigration, socio-cultural change and vulnerability to volcanic hazards.*  
 Discussant(s): Johanna L. Ostling

**4611. Authors Meet Critics: Life in the Age of Drone Warfare**

**Room:** Room 200, Hynes, Second Level (Panel Session)  
 ORGANIZER(S): Emily Gilbert, University of Toronto  
 CHAIR(S): Emily Gilbert, University of Toronto  
 Discussant(s): Javier Arbona, UC Davis; Peter Adey, Royal Holloway, University of London; Emily Gilbert, University of Toronto  
 Panelists: Caren Kaplan, University of California - Davis; Lisa Parks, MIT; Andrea L. Miller, University of California - Davis; Derek Gregory, University of British Columbia

**4612. Sustainable Tourism - Resilient Destinations: Future Governance Strategies in Tourism Development? (Sponsored by Recreation, Tourism, and Sport Specialty Group)**

**Room:** Room 201, Hynes, Second Level (Panel Session)  
 ORGANIZER(S): Jarkko J. Saarinen, University of Oulu; Alison M. Gill, Simon Fraser University  
 CHAIR(S): Jarkko J. Saarinen, University of Oulu  
 Introducer: Jarkko J. Saarinen  
 Discussant(s): Alison M. Gill, Simon Fraser University  
 Panelists: Patrick Brouder, Brock University; Dimitri Ioannides, Mid-Sweden University; Kristina Nilsson Lindstrom, University of Gothenburg; Natalie Ooi, Colorado State University; Wame Lucretia Hambira, University of Botswana

**4613. Global change risk of population and economic systems: Mechanisms and assessments**

**Room:** Room 202, Hynes, Second Level (Paper Session)  
 ORGANIZER(S): Peijun Shi, Beijing Normal University; Bruce Anderson, Boston University  
 CHAIR(S): Bruce Anderson, Boston University  
**5:20** Aihui Wang\*, Institute of Atmospheric Physics, Chinese Academy of Sciences; Xubin Zeng, The University of Arizona, *Global Hourly 0.5-degree Land Surface Air Temperature Datasets.*  
**5:35** Fubao Sun\*, Chinese Academy of Sciences; Weeho Lim, The Chinese Academy of Sciences; Hong Wang, The Chinese Academy of Sciences; Quansheng Ge, The Chinese Academy of Sciences, *Assessment of river flood protection benefits and economic risks under climate change.*  
**5:50** Ning Li\*, Beijing Normal University; Xi Chen, Beijing Normal University; Zhengtao Zhang, Beijing Normal University, *Change features and regional distribution of temperature trend in mainland China and fluctuation joint mode.*

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- 6:05** Saini Yang\*, Beijing Normal University; Fuyu Hu, Beijing Normal University, *Stochastic Multi-Objective Optimization for Transportation Infrastructure Network Protection.*
- 6:15** Jidong Wu\*, Key Laboratory of Environmental Change and Natural Disaster, MOE, Beijing Normal University, *Development of a high spatial resolution asset value map for disaster risk assessment in China by spatial disaggregation using RS ancillary data.*
- 6:25** Jing Yang\*, State Key Laboratory of Earth Surface Processes and Resource Ecology (ESPRE), Beijing Normal University, Beijing 100875, China; Siyuan Zhou, Academy of Disaster Reduction and Emergency Management Ministry of Civil Affairs and Ministry of Education, Beijing Normal University, Beijing 100875, China; Daoyi Gong, State Key Laboratory of Earth Surface Processes and Resource Ecology (ESPRE), Beijing Normal University, Beijing 100875, China; Wei-Chyung Wang, Atmospheric Sciences Research Center, State University of New York, Albany, New York 12203, USA; Peijun Shi, Academy of Disaster Reduction and Emergency Management Ministry of Civil Affairs and Ministry of Education, Beijing Normal University, Beijing 100875, China, *Distinct meteorological diurnal cycle features over Beijing-Tianjin-Hebei region in clean and polluted days of early summer: implication to extreme heavy rainfall.*
- 6:35** Peijun Shi\*, Academy of Disaster Reduction and Emergency Management, Ministry of Civil Affairs and Ministry of Education, Beijing Normal University, Beijing 100875, China; Aihui Wang, Institute of Atmospheric Physics, Chinese Academy of Science, Beijing 100029, China; Fubao Sun, Institute of geographic sciences and natural resources research, Chinese Academy of Science, Beijing 100101, China; Ning Li, Academy of Disaster Reduction and Emergency Management, Ministry of Civil Affairs and Ministry of Education, Beijing Normal University, Beijing 100875, China; Tao Ye, State Key Laboratory of Earth Surface Processes and Resource Ecology, Beijing Normal University, Beijing 100875, China; Wei Xu, Academy of Disaster Reduction and Emergency Management, Ministry of Civil Affairs and Ministry of Education, Beijing Normal University, Beijing 100875, China; Jing'ai Wang, School of Geography, Beijing Normal University, Beijing 100875, China; Jianping Yang, Northwest Institute of Eco-environment and Resource, Chinese Academy of Science, Lanzhou 730000, China; Hongjian Zhou, National Disaster Reduction Center, Ministry of Civil Affairs, Beijing 100124, China, *Global change risk of population and economic systems: Mechanisms and assessments.*
- 6:50** Yao Wang, Academy of Disaster Reduction and Emergency Management, Beijing Normal University; Tao Ye\*, Beijing Normal University, State Key Laboratory of Earth Surface Processes and Resource Ecology, Shuo Zong, Academy of Disaster Reduction and Emergency Management, Beijing Normal University; Yijia Li, Academy of Disaster Reduction and Emergency Management, Beijing Normal University, *Growth periods changes of paddy rice in the southern part of China since 2000.*

- 6:00** Sangmyeoung Moon\*, Sangmyeoung Moon, University of Southern California Korean Heritage Library, *Description of Korea in Western old maps - Through the Western Old Maps of the USC Korean Heritage Library.*
- 6:20** André Reyes Novaes, Associate Professor\*, State University of Rio de Janeiro, *Military and Journalistic Cartography: Mapping the Triple Alliance War in South America (1864-1870).*
- 6:40** Joseph P. Stoltman\*, Western Michigan University; Jino Kwak, Ph.D., Northeast Asian History Foundation, *Using Old Maps as Evidence.*

## **4615. Statistical Methods in Urban Geography** Room: Room 204, Hynes, Second Level (Paper Session)

- ORGANIZER(S): Program Committee  
CHAIR(S): Paul J. Mackun, U.S. Bureau Of the Census
- 5:20** Yaxiong Ma\*, Boston University; Sucharita Gopal, Boston University; Curtis Woodcock, Boston University, *What Determines the Median Price of a House in Towns of Massachusetts in Periods of Boom and Bust (2000-2013)? A Geographically Weighted Regression Approach.*
- 5:40** Jingsi Shaw\*, MIT; Joseph Ferreira, Jr., MIT, *Translating 'Recent-Mover' Surveys into Markov Chain Models that can Simulate the Spatio-Temporal Pattern of Public Housing Dwellers.*
- 6:00** Lam Tran\*, University of Pennsylvania; Phoebe Tran, Yale University, *Internal Validation of Spatial Regression Model with Bootstrap Resampling.*
- 6:20** Jared Lee Cleghorn\*, Oak Ridge National Laboratory; Jacob McKee, Oak Ridge National Laboratory, *Utilizing Statistical Descriptors to Guide Semi-Supervised Learning.*
- 6:40** Paul J. Mackun\*, U.S. Bureau Of the Census, *Metropolitan, Micropolitan, and Related Statistical Area Guidance and Uses.*

## **4616. Historicising the mind. Between conscious and unconscious states of mentation. 2. (Sponsored by Health and Medical Geography Specialty Group, Cultural Geography Specialty Group, Historical Geography Specialty Group)** Room: Room 205, Hynes, Second Level (Paper Session)

- ORGANIZER(S): Hazel Morrison, University of Durham  
CHAIR(S): Hilary Powell, Durham University
- 5:20** Hazel Catherine Morrison, Dr.\*, University of Durham, *Sensing the self in the wandering mind...*
- 5:40** Gail Davies\*, University of Exeter, *Withholding/rewarding behaviours: remaking economics, ethics, and human-animal minds.*
- 6:00** Nichola Wood\*, University of Leeds, *Exploring Ontological (In)Security in Uncertain Times.*
- 6:20** Felicity Callard, PhD\*, Durham University, *Daydream Archive.*

## **4619. The process of Metropolisation: Reconfiguring the city at the regional scale 4** Room: Room 210, Hynes, Second Level (Paper Session)

- ORGANIZER(S): Rodrigo Cardoso, Delft University of Technology; Evert Meijers, Delft University of Technology  
CHAIR(S): Rodrigo Cardoso, Delft University of Technology
- 5:20** Jen Nelles\*, Hunter College, CUNY; David Y Miller, University of Pittsburgh, *University of Pittsburgh, University of Pittsburgh, The Role of Regional Governing Organizations (RGOs) in the Construction of Identities, Space, and Public Policy in U.S. Metropolitan Regions.*
- 5:40** Michael Bentlage\*, Munich University of Technology; Alain Thierstein, Munich University of Technology, *Preferential attachment and structural change. A dynamic approach to knowledge networks in the metropolitan region of Hanover-Brunswick-Göttingen-*

## **4614. Maps and Mapping as Historical Method**

- Room: Room 203, Hynes, Second Level (Paper Session)  
ORGANIZER(S): Program Committee  
CHAIR(S): Joseph P. Stoltman, Western Michigan University
- 5:20** Jeff Blossom\*, Harvard Center for Geographic Analysis, *Cartographic Education through the Out of Eden Walk Project.*
- 5:40** Patricia Seed\*, University of California, *The Black Sea in Arab Maps -.*



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## Wolfsburg.

**6:00** Jean-Paul Addie\*, University College London, *From a region in itself to a region for itself? The limits to academic metropolitanization.*

**6:20** Evert Meijers\*, Delft University of Technology; Marloes Hoogerbrugge, Erasmus University Rotterdam; Rodrigo Cardoso, Delft University of Technology, *Polycentricity, Integration and Performance: does stronger integration between cities in Polycentric Urban Regions improve Performance?.*

## 4621. Ocean/Ontology/Anthropocene: Feminism, STS, and the Oceanic Turn (Sponsored by Political Geography Specialty Group, Coastal and Marine Specialty Group)

Room: Room 301, Hynes, Third Level (Paper Session)

ORGANIZER(S): Philip E. Steinberg, Durham University  
CHAIR(S): Philip E. Steinberg, Durham University  
Introducer: Philip E. Steinberg

**5:25** Stefan Helmreich, PhD\*, MIT, *A Geohistory of Ocean Waves.*

**5:55** Elizabeth DeLoughrey\*, UCLA, *Aquatopias for the Anthropocene: Between Ontology and Totality.*

Discussant(s): Deborah Dixon, University of Glasgow; Jessica Lehman, University of Minnesota - Minneapolis; Kimberley Peters, University of Liverpool

## 4622. Modeling Environmental Change

Room: Room 302, Hynes, Third Level (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Shixiong Hu, Dept. of Geography, East Stroudsburg University of PA

**5:20** Nathan Lopez-Brody\*, New Mexico State University; Michaela Buenemann, New Mexico State University, *Modeling the Impact of Woody Plants on Desert Bighorn Sheep Habitat in the San Andres Mountains, New Mexico, U.S.A..*

**5:40** Andrew Douglas Schuldt\*, University of British Columbia, *Making FeedStock Markets: Biofuels and the Valuation of Forest Biomass.*

**6:00** Xuantong Wang\*, University of Denver; Bingxin Qi, University of Denver, *A global analysis of the impacts of urbanization on migratory birds.*

**6:20** Aparna Lal\*, Australian National University, *Towards managing natural resources for population health: Spatiotemporal patterns of infectious cryptosporidiosis in the Murray-Darling Drainage Basin, Australia.*

**6:40** Shixiong Hu\*, Dept. of Geography, East Stroudsburg University of PA; Nikolai Kolba, Dept. of Geography, East Stroudsburg University of PA, *Monitoring of the habitat change of Timber Rattlesnake using GIS.*

## 4623. John Jensen Distinguished Lecture Series (Sponsored by Remote Sensing Specialty Group)

Room: Room 303, Hynes, Third Level (Paper Session)

ORGANIZER(S): Changshan Wu, University of Wisconsin, Milwaukee

CHAIR(S): Changshan Wu, University of Wisconsin, Milwaukee

**5:20** John Jensen\*, University of South Carolina, *Personal and Commercial Unmanned Aerial Systems (UAS) Remote Sensing and their Significance for Geographic Research.*

## 4625. The politics of waters' infrastructure: taking materiality seriously (Sponsored by Geographies of Bread and Water in the 21st Century Featured Theme)

Room: Room 305, Hynes, Third Level (Paper Session)

ORGANIZER(S): Tatiana Acevedo Guerrero, Université de Montréal

CHAIR(S): Tatiana Acevedo Guerrero, Université de Montréal

**5:20** Stian Rice\*, Kent State University, *Watering the 'Killing Fields': Irrigation Infrastructure and Social Control in Democratic Kampuchea, 1975-79.*

**5:35** Maria Rusca\*, King's College London; Giuliana Ferrero, UNESCO-IHE, *Infrastructural configurations and everyday life experiences of accessing water.*

**5:50** Mitul Baruah, Dr. \*, Ashoka University, *Hydraulic Infrastructure and the Making of a Hazardscape.*

**6:05** Hermen Smit\*, UNESCO-IHE, *From bounded agency to actualizing history - shaping canals, land tenure and citizenship in the Gezira irrigation scheme, Sudan.*

**6:20** Tatiana Acevedo Guerrero\*, UNESCO-IHE Institute for Water Education, *Light is like water: infrastructure and the making of vulnerability.*

**6:35** Jeltsje Kemerink-Seyoum, PhD, MSc\*, UNESCO-IHE, *Negotiation, tinkering and bricolage: Understanding agency in everyday agricultural water practices.*

## 4626. Globalization 2.0: Geopolitical shifts, urbanisation and global infrastructure space II

Room: Room 306, Hynes, Third Level (Paper Session)

ORGANIZER(S): Alan Wiig, University of Massachusetts, Boston; Jonathan Silver, university of sheffield

CHAIR(S): Jonathan Silver, university of sheffield  
**5:20** Carla Kayanan\*, University of Michigan; Christian Eichenmüller\*, University of Erlangen-Nürnberg; Joseph Chambers, University of Manchester, *Silicon Slipways and Slippery Slopes: The story of Dublin's Docklands and the price of integration into the global economy.*

**5:40** Alan Wiig\*, University of Massachusetts, Boston, *Manchester Airport City and the infrastructural geopolitics of Chinese investment in the United Kingdom.*

**6:00** ADITYA RAY\*, Queen Mary University of London, *Feeding the New Urban Economy: Exploring 'Associated Infrastructures' of India's IT oriented Services in the 'Tier 2' City.*

**6:20** Amelia Hassoun, MSc\*, University of Minnesota, *Making Future Space: At Home in the Singaporean Smart Nation.*

Discussant(s): Theresa Enright, University of Toronto

## 4627. Food system transitions 5: Taking a closer look (Sponsored by Cultural and Political Ecology Specialty Group, Rural Geography Specialty Group, Geographies of Food and Agriculture Specialty Group)

Room: Room 307, Hynes, Third Level (Paper Session)

ORGANIZER(S): Christoph David Dietfried Rupprecht, Research Institute for Humanity and Nature; Steven R. McGreevy, Research Institute for Humanity and Nature

CHAIR(S): Mai Kobayashi, Research Institute for Humanity and Nature

**5:20** Jennie L Durant\*, UC Berkeley, *Bitter Honey: The Production of the Industrial Honeybee in California.*

**5:40** Hannah Brooking\*, University of Leicester - Leicester, *Is sustainable cheese a fictitious agri-food identity?: An examination of the embedment of sustainability in cheese actor networks..*

**6:00** Caitie Finlayson, Ph.D. \*, University of Mary Washington, *How About Them Apples?: An Analysis of Consumer Perceptions of Fresh Produce Quality.*

**6:20** Pan He\*, University of Maryland, *The dual effects behind the dishes: linking the nutrition adequacy with the environmental impacts of China's diet.*

**6:40** Norie Tamura\*, Research Institute for Humanity and Nature, *Potential for GIAHS to lead to regeneration of local food system - a case study in Gifu, Japan.*

## 4628. Food on a global vs. local scale (Sponsored by Geographies of Bread and Water in the 21st Century Featured Theme)

Room: Room 308, Hynes, Third Level (Paper Session)

ORGANIZER(S): Bread and Water

CHAIR(S): Samantha Poindexter, University of Minnesota - Minneapolis



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- 5:20** Gary R. Schnakenberg, Ph.D.\*, Michigan State University, *"Carrot just rotten in a field": Neoliberal impacts of a state/private sector partnership on farmers in St Elizabeth, Jamaica.*
- 5:40** Christopher Bacon\*, Santa Clara University; William Sundstrom, Santa Clara University; Iris Stewart-Frey, Santa Clara University, *Smallholder solidarities and strategies to secure food and water access in Central America.*
- 6:00** Nelly Leblond, PhD candidate, University Paul Valéry, France; Julie Trottier, Research Director at CNRS, CNRS, University Paul Valéry, France, *Performing an Invisibility Spell: Global Models, Food Regimes and Smallholders.*
- 6:20** Samantha Poindexter, MA\*, University of Minnesota - Minneapolis, *Blueberries and Bruselas: Stories of Gender, Race, Food and Agriculture in Ejido Erendira.*
- 4629. Theorizing Urban Agriculture: North - South Convergences? (Sponsored by Cultural and Political Ecology Specialty Group, Geographies of Food and Agriculture Specialty Group)**
- Room:* Room 309, Hynes, Third Level (Paper Session)  
**ORGANIZER(S):** Laureen Elgert, Worcester Polytechnic Institute; Antoinette WinklerPrins, National Science Foundation; Leslie Gray, Santa Clara University  
**CHAIR(S):** Leslie Gray, Santa Clara University  
**5:20** Caitlin Matthews\*, Tufts University, *Farmers in the City: Food security, rural-urban migration, and regional self-reliance in the Department of La Paz, Bolivia.*  
**5:40** Laureen Elgert\*, Worcester Polytechnic Institute, *Developing a critical research agenda for climate smart urban agriculture.*  
**6:00** Tania Hernandez Cervantes\*, York University, *Towards a theoretical convergence for studying Southern and Northern (peri)urban agriculture: an integrated approach of metabolic rift and agroecology.*  
**6:20** Leslie Gray\*, Santa Clara University; Antoinette WinklerPrins\*, National Science Foundation, *Theorizing Urban Agriculture: Comparative Perspectives in the Global North and Global South.*
- 4630. Tobler and Transactions in GIS Plenary Presentations (Sponsored by Geographic Information Science and Systems Specialty Group)**
- Room:* Room 310, Hynes, Third Level (Paper Session)  
**ORGANIZER(S):** John P. Wilson, University Of Southern California; Zachary J. Christman, Rowan University  
**CHAIR(S):** John P. Wilson, University Of Southern California  
**5:20** Arthur Getis\*, San Diego State University, *The Big Data Trap: GIS and Spatial Analysis.*  
**6:10** Jeremy Mennis\*, Temple University, *Risky Spaces for Dangerous Activities: Geographic Information Science and the Analysis of Place and Health.*
- 4631. GeoHumanities GeoPoetics Poetry Reading (Sponsored by Cultural Geography Specialty Group)**
- Room:* Room 311, Hynes, Third Level (Paper Session)  
**ORGANIZER(S):** Tim Cresswell, Northeastern University; Sarah De Leeuw, University of Northern British Columbia  
**CHAIR(S):** Tim Cresswell, Northeastern University  
**Introducer:** Tim Cresswell  
**Discussant(s):** January O'Neill, Salem State University; Joseph Massey; Jill McDonough, University of Massachusetts Boston; Stephen Burt, Harvard University; Danielle Legros Georges, Lesley University
- 4632. The 2016 U.S. Elections: Implications for Geography and Beyond (Sponsored by Late-Breaking News Special Session Track) - Featured Session**
- Room:* Room 312, Hynes, Third Level (Panel Session)  
**Organizer and Moderator:** Glen M. MacDonald, University of California - Los Angeles  
**Panelists:**  
 Sarah Witham Bednarz, Texas A&M University;  
 Alexander B. Murphy, University of Oregon;  
 Derek H. Alderman, University of Tennessee;  
 Victoria A. Lawson, University of Washington;  
 Julie Winkler, Michigan State University;  
 Glen M. MacDonald, University of California - Los Angeles  
**Discussant:** Douglas Richardson, American Association of Geographers
- 4633. Research, Fieldwork, and Educational Travel in Cuba II: Educational Travel to Cuba (Sponsored by Latin America Specialty Group, Qualitative Research Specialty Group)**
- Room:* Room 313, Hynes, Third Level (Panel Session)  
**ORGANIZER(S):** John Finn, Christopher Newport University; Federica Bono, University of Leuven; Dereka Rushbrook, University of Arizona  
**CHAIR(S):** John Finn, Christopher Newport University  
**Introducer:** John Finn  
**Discussant(s):** John Finn, Christopher Newport University  
**Panelists:** Sarah A. Blue, Texas State University; Dereka Rushbrook, University of Arizona; Marshall Feldman, University Of Rhode Island; Richard N. Gioioso, Political Science, Saint Joseph's University
- 4638. Digital \ Human \ Labour 5: Panel**
- Room:* Independence East, Sheraton, Second Floor (Panel Session)  
**ORGANIZER(S):** James Thatcher, University of Washington - Tacoma; Mark Graham, University of Oxford; Gillian C. Rose, The Open University  
**CHAIR(S):** Rob Kitchin, National University Of Ireland Maynooth  
**Discussant(s):** Trevor J. Barnes, University Of British Columbia; Renee Sieber, McGill University; David O'Sullivan, University of California, Berkeley  
**Panelists:** Shannon Christine Mattern, New School University; Matthew W. Wilson, University of Kentucky; Martin Dodge; Sarah Elwood, University of Washington; Dorothea Johanna KLEINE, University of Sheffield
- 4639. Land-titling Triumph and the Aftermath 2 : Paradoxical Geographies of Power and Violence**
- Room:* Independence West, Sheraton, Second Floor (Paper Session)  
**ORGANIZER(S):** Cari Tusing, University of Arizona; Shanya Cordis, University of Texas - Austin; Monica Patricia Hernandez, Rutgers, The State University of New Jersey  
**CHAIR(S):** Cari Tusing, University of Arizona  
**5:20** Laura German\*, University of Georgia; Eunice Cavane, Universidade Eduardo Mondlane; Carla Braga, Universidade Eduardo Mondlane; Almeida Sitoe, Universidade Eduardo Mondlane, *Formalization, legibility and access: The troubled path to tenure security in Mozambique.*  
**5:36** Micah Fisher\*, University of Hawaii, at Manoa; East-West Center, *The Slot Machine: Triumph and Disillusion in Making Indigenous Land Claims to Indonesia's Forest Estate.*  
**5:52** Irina Wenk\*, University of Zurich, Switzerland, *Managing Ancestral Domain in the Philippines: The Post-Titling Situation in Matigsalog Titled Territory.*  
**6:08** Lauriane Gay\*, ART-Dev, UMR 5281, *Who is the land grabber? Being a legitimate authority managing land in Africa. The case study of Omier forest in Uganda..*  
**6:24** Dacia Douhaibi\*, York University, *State Fragility and Forced Displacement in South Sudan: Violent Outcomes of State Failure in the World's Newest Country.*  
**Discussant(s):** Tania Li, University of Toronto

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## 4640. Water and Sanitation Delivery in African Cities and Informal Settlements (Sponsored by Cultural and Political Ecology Specialty Group, Africa Specialty Group, Water Resources Specialty Group)

Room: Liberty B, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Ellis Adjei Adams, Georgia State University  
CHAIR(S): Ellis Adjei Adams, Georgia State University

5:20 Ellis Adjei Adams\*, Georgia State University, *Do Decentralization Reforms Lead to Improved Access to Water in Peri-Urban Areas? Evidence from Community Water User Associations in Malawi.*

5:40 Scott Jiusto\*, Worcester Polytechnic Institute, *Collaborative Approaches to Informal Settlement Upgrading and Water, Sanitation and Hygiene Provision: Insights from South Africa.*

6:00 Isaac Asante-Wusu\*, Miami University, *Geography of Urban Water Security and Vulnerability: Case Studies of Three Localities within the Accra-Tema City-Region (ATCR), Ghana.*

## 4641. Urban development in China (Sponsored by Uncertainty and Context in Geography and GIScience Featured Theme)

Room: Liberty C, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Uncertainty and Context Theme

CHAIR(S): Fang Bian

5:20 Zhan Dongsheng\*, Wenzhong Zhang, *Examining the relationship between spatial equity of public facilities and residential satisfaction disparity in Beijing: A multilevel model analysis.*

5:40 Jianbao Li\*, Nanjing University; Xianjin Huang, Nanjing University, *Convergence of carbon intensity in the Yangtze River Delta, China.*

6:00 Jiafen Zheng\*, Department of Urban and Regional Planning, Research Institute of Urbanization, Sun Yat-Sen University, China; Xun Li, Department of Urban and Regional Planning, Research Institute of Urbanization, Sun Yat-Sen University, China, *Spatial regeneration and cultural creativity of rural villages in China: a case of Xiaba Village, Dongguan.*

6:20 Si Yang\*, Department of Urban and Regional Planning, Research Institute of Urbanization, Sun Yat-Sen University, China; Xun Li, Department of Urban and Regional Planning, Research Institute of Urbanization, Sun Yat-Sen University, China; Tingting Chen, Department of Urban and Regional Planning, Research Institute of Urbanization, Sun Yat-Sen University, China; Zongcai Wei, Department of Urban Planning and Design, The University of Hong Kong, Hong Kong, *Spatial Changes and Reconstruction of Taobao Villages in China under the "Internet+" era: A Case of Lirendong Village, Guangzhou.*

6:40 Fang Bian\*, The University of Hong Kong; Xingjian Liu, The University of Hong Kong, *Fractures in Intercity Transport Infrastructures: Causes, Implications, and Planning.*

## 4642. Vegan Geographies 2: vegan praxis in the here and now (Sponsored by Animal Geography Specialty Group)

Room: Back Bay Ballroom A, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Richard J. White, Sheffield Hallam University; Ophélie Véron; Simon Springer, University of Victoria

CHAIR(S): Yamini Narayanan, Deakin University

Introducer: Paul Hodge

5:40 Angela Dawn Parker, MSc\*, Concordia University, Montreal, *"Safe" Spaces? Vegan ideologies and farm animal sanctuaries.*

6:00 Rachel Christen Dinger, M.A.\*, Chatham University, *"We Don't Live in a Vegan World": Group Membership and Identity Negotiation Among Individuals with Countercultural Consumption Behaviors.*

6:20 Nicolas Maestripiéri, PhD\*, University of Toulouse 2; Julie Celnik, PhD Student, Cemotev, University of

Versailles Saint-Quentin en Yvelines, *Towards Vegan Societies? From the Deepest Roots of Environmental Degradations to Future Landscapes..*

Discussant(s): Ophélie Véron

## 4643. Spatial Thinking, Map Understanding, and Geospatial Technologies in Geography Education: International Case Studies (Sponsored by Geography Education Specialty Group)

Room: Back Bay Ballroom B, Sheraton, Second Floor (Panel Session)

ORGANIZER(S): Injeong Jo, Texas State University; Xi Xiang, East China Normal University

CHAIR(S): Injeong Jo, Texas State University

Introducer: Injeong Jo

Discussant(s): Chew-Hung Chang, Nanyang Technological University

Panelists: Mary Curtis, University of Texas at Arlington; Jinhee Lee, Texas State University; Xi Xiang, East China Normal University; Christiane Meyer, Leibniz University Hanover - Institute for Science Education - Geography Educati; Rafael Miguel González, University of Zaragoza (Spain)

## 4648. Modernity, Space and Gender 3 (Sponsored by Geographic Perspectives on Women Specialty Group)

Room: Beacon D, Sheraton, Third Floor (Panel Session)

ORGANIZER(S): Alexandra Staub, Pennsylvania State University

CHAIR(S): Alexandra Staub, Pennsylvania State University

Introducer: Alexandra Staub

Discussant(s): Aparna Parikh, Pennsylvania State University

Panelists: Kim England, University of Washington; Cindy Fan, UCLA; Irene Molina, Institute for Housing and Urban Research, Uppsala University

## 4649. Fluvial Forms and Processes III (Sponsored by Geomorphology Specialty Group)

Room: Beacon E, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Kory M. Konsoer, Louisiana State University; Inci Guneralp, Texas A&M University

CHAIR(S): Kory M. Konsoer, Louisiana State University

5:20 Sean Bennett\*, University at Buffalo; Mohammad Ghaneizad, University at Buffalo; Maliheh Karamigolbaghi, University at Buffalo; Joseph Atkinson, University at Buffalo, *Assessing The Erodibility Of Cohesive Sediment With Impinging Jets.*

5:40 Matthew Goslin\*, University of Oregon; Patricia McDowell, University of Oregon, *Development of Channel Complexity Facilitated by a Native Sedge, Carex nudata, Following Passive Restoration in the Middle Fork John Day River.*

6:00 Robert T. Pavlowsky\*, Missouri State University; Matthew Thies, Missouri State University; Rachael A Bradley, Missouri State University; Marc R Owen, Ozarks Environmental and Water Resources Institute, *Geographic distribution and geomorphic behavior of human-modified channels along Big Barren Creek, Mark Twain National Forest, Missouri Ozarks.*

6:20 Tasnuba Jerin, Earth Surface Systems Program, Department of Geography, University of Kentucky; Jonathan Phillips, Earth Surface Systems Program, Department of Geography, University of Kentucky, *Local efficiency in fluvial systems: Lessons from Icicle Bend.*

Discussant(s): Kory M. Konsoer, Louisiana State University

## 4650. Contemporary Issues in Rural China (Sponsored by China Specialty Group, Rural Geography Specialty Group, Asian Geography Specialty Group)

Room: Beacon F, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Gregory Veeck, Western Michigan University

CHAIR(S): Gregory Veeck, Western Michigan University

5:20 Wenjing Jiang\*, Clark University, *Marketization of*

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## *Agricultural Land Use Rights and Rural Restructuring in China.*

**5:40** Yue Wang\*, Beijing Normal University; Xuemin LIU, Beijing Normal University; Ruiyin DOU, Beijing Normal University; Yu ZHANG, Beijing Normal University, *The Study of Resource Value Accounting of the Farmland in North China Plain.*

**6:00** Zhendong Luo\*, Nanjing University, *New urbanization from below in China: The characteristic, mechanism and trend of rural urbanization driven by E-commerce.*

**6:20** Gregory Veeck\*, Western Michigan University; Charles Emerson, Western Michigan University; Zhou Li, Rural Development Institute, Chinese Academy of Social Sciences; Fawen Yu, Rural Development Institute, Chinese Academy of Social Sciences, *EVI Assessment of Grassland Change under Post-2000 Policy Interventions: A Case Study of Eight Pastoral Counties in West China, 2000 -2015.*

Discussant(s): Clifton W. Pannell, University of Georgia

## **4653. Geographies of Health and Human Services**

*Room:* Dalton A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Nathan Burtch, University of Maryland Department of Geography

**5:20** Flavia Martinelli, Dr. Prof.\*, Dipartimento Architettura e Territorio - Università Mediterranea di Reggio Calabria; Stefania Barilla, Dr., Dipartimento Architettura e Territorio - Università Mediterranea di Reggio Calabria; Antonella Sarlo, Dr. Prof., Dipartimento Architettura e Territorio - Università Mediterranea di Reggio Calabria, *The uneven geography of social services in Italy. The case of childcare services in a lagging region.*

**5:40** Sophie Yarker\*, Aberystwyth University, *Voluntary pursuits and 'active ageing' in rural Wales.*

**6:00** Cory Sanchez\*, *Positions of Help: Care Work Inside the Homeless Multiservice Shelter.*

**6:20** Nathan Burtch\*, University of Maryland & Towson University, *Duty and space: Health as a religious duty in Seventh-day Adventism.*

## **4655. Geomorphology: Sediments, Tectonics, and Morphology**

*Room:* Hampton A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Jacquelyn Brianna Ferguson, Texas A&M University

**5:20** Ranbir Kang\*, Western Illinois University; Elizabeth Chacko, George Washington University; Dhian Kaur, Panjab University, Chandigarh, India, *Effect of Earthen Check Dams on Reservoir Sedimentation and Tributaries in Shiwalik Foothills of Indian Himalayas.*

**5:40** Marcelo Accioly Teixeira De Oliveira, Dr\*, Universidade Federal de Santa Catarina - Florianopolis, SC, Brazil; Janaina Carla Santos, Dr, Universidade Federal do Vale do São Francisco, Campus Serra da Capivara, Brazil, *Shallow subsurface GPR stratigraphy and planation processes in the Serra Branca valley: Serra da Capivara National Park, semi-arid NE Brazil.*

**6:00** Dawan Nashid Taylor\*, Texas A&M University, *Establishing Relationships between Vegetation Dynamics in Context of Geologic Framework on Padre Island National Seashore, Texas, USA.*

**6:20** Larry F. Tuttle\*, Texas A&M University, Department of Geology and Geophysics, College Station, Texas, USA 77843; Cassie Mohkami, Texas A&M University, Department of Geology and Geophysics, College Station, Texas, USA 77843; Phillippe A. Wernette, Texas A&M University, Department of Geography, College Station, Texas, USA 77843; Chris Houser, University of Windsor, Department of Earth and Environmental Sciences, Windsor, Ontario, Canada N9B 3P4, *Updating Framework Geology Information at Padre*

## *Island National Seashore: Validation of Geophysical Surveys through Sediment Cores.*

**6:40** Jacquelyn Brianna Ferguson\*, Texas A&M University; Jacquelyn Brianna Ferguson, *Establishing Relationships between Vegetation Dynamics in Context of Geologic Framework along Padre Island National Seashore, Texas, USA.*

## **4656. Tourism and Leisure in China (Sponsored by China Specialty Group)**

*Room:* Hampton B, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Xiaobo Su, University of Oregon

CHAIR(S): Benjamin TAUNAY, University of Angers

**5:20** LING SHI\*, Beijing Forestry University, *Residents' perception of tourism development in the poverty-stricken rural area: the case of Tiantangzhai, China.*

**5:40** Benjamin TAUNAY\*, University of Angers, *Tanning in China: being normal, going against the grain.*

**6:00** Jinkun Sun\*, Jinhe Zhang, *Effects of Smog on Domestic Tourism: Comparative Analysis of Different Cities in China.*

**6:20** Zhu He\*, Institute of Geographic Sciences and Natural Resources Research, CAS, China; Liu Jiaming, Institute of Geographic Sciences and Natural Resources Research, CAS, China, *Recreational Business District Boundary Identifying and Spatial Structure Influence in Historic Area Development: A Case Study of Qianmen District, China..*

## **4657. Solid waste management and recycling in China (Sponsored by China Specialty Group)**

*Room:* Gardner A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Jia Feng, Michigan State University

CHAIR(S): Liwen Chen, Memorial University of Newfoundland

**5:20** Chung-pei Pien\*, Texas A&M, *Environmental Policy and the Emergence of the Incineration Industry: A Case Study of Beijing, China, 1992-2012.*

**5:40** Yao Li\*, Harvard Kennedy School, Ash Center, *When Does Environmental Activism Undermine Environmental Justice? Protests Against Waste Incineration in China.*

**6:00** Liwen Chen\*, Memorial University of Newfoundland; Josh Lepawsky, Memorial University of Newfoundland; Josh Goldstein, University of Southern California, *E-waste recycling in Beijing with the effect of China's WEEE and its funding mechanism: competition or collaboration between scrap collectors and formal recycling plants.*

**6:20** Jia Feng\*, Michigan State University, *Institutional barriers faced by the recycling activities in China ---taking Henancun in Beijing as a case study.*

## **4659. Governing Mobility Through the European Union's 'Hotspot' Centres (II)**

*Room:* Fairfax A, Sheraton, Third Floor (Panel Session)

ORGANIZER(S): Antonios Vradis, Loughborough University;

Martina Tazzioli; Lauren Martin, Durham University

CHAIR(S): Glenda Garelli

Panelists: Evie Papada; Antonios Vradis, Loughborough University; Darshan Vijay Vigneswaran, University of Amsterdam

## **4660. The recent financialization of the Brazilian territory: scales, actors and processes (Sponsored by Latin America Specialty Group, Development Geographies Specialty Group, Economic Geography Specialty Group)**

*Room:* Fairfax B, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Fabio Betioli Contel, University of Sao Paulo;

Leila Dias

CHAIR(S): Leila Dias

Introducer: Fabio Betioli Contel

**5:40** Leila Christina Dias, Ph.D. Professor of Geography\*, Universidade Federal de Santa Catarina, *Finance and*



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*territory: spatial scales and the emergence of new networks in Brazil.*

**6:00** Hindenburgo Francisco Pires, Pires, H.F.\*, Rio de Janeiro State University, *The Globalization of Cryptocurrency: The end of banks and financial intermediation?*

**6:20** Marina Regitz Montenegro\*, Universidade de São Paulo (USP), *Financialisation of poverty in the metropolis of São Paulo.*

**6:40** DANIEL PEREIRA ROSA\*, Universidade De São Paulo, *Credit, finances and consume to understand new relations between center - periphery in the metropolitan area of Rio de Janeiro Brazil.*

## **4661. Feminist Economic Geography- Encountering the subject II (Sponsored by Geographic Perspectives on Women Specialty Group, Economic Geography Specialty Group)**

*Room:* Jefferson, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Nancy Worth, University of Waterloo

CHAIR(S): Nancy Worth, University of Waterloo

**5:20** Madelaine C Cahuas, ABD\*, University of Toronto, *Broke, Burned and Brilliant: Latin American women's experiences working across Toronto's non-profit sector.*

**5:40** Valerie A. Preston\*, York University; Brian Ray, University of Ottawa; Larissa Bablak, York University; Marshia Akbar, York University; Kathryn Dennler, York University, *Second Generation Employment Narratives: It's a white man's world? even in multicultural Toronto.*

**6:00** Alicia C Tomaszczyk\*, York University; Nancy Worth, University of Waterloo, *An Examination of Millennials' Motivations for Inter-generational Co-residency.*

**6:20** Michelle Buckley\*, University of Toronto, *Home economics: masculine renovations work and the production of residential value.*

Discussant(s): Daniel G. Cockayne, University of Waterloo

## **4662. The distribution of residential populations in cities (Sponsored by Population Specialty Group)**

*Room:* Kent, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Christopher S. Fowler, Pennsylvania State University

CHAIR(S): Michael Reibel, California State University

**5:20** Kitty LYMPERPOULOU\*, University of Manchester; Nissa Finney, University of St Andrews; Gemma Catney, University of Liverpool, *Ethnic inequalities and residential segregation in districts of England and Wales.*

**5:40** Hyejin Kim\*, Sungshin Women's University; Jawon Lee, Sungshin Women's University, *Residential Segregation of Foreign Immigrants in Seoul Metropolitan Area.*

**6:00** Ashley J. Mendez-Heavilin\*, University of Puerto Rico; Jenniffer M Santos-Hernández, University of Puerto Rico-Río Piedras, *Gentrification and the social construction of neighborhoods: A content analysis of property sales ads.*

**6:20** Arwa Mohamed Altaher, PhD candidate in Geography\*, UNCG; Selima Sultana, Professor in Geography, UNCG, *Residential Location Patterns of Immigrants in 21st Century: Evidences from Atlanta MSA.*

**6:40** Michael Reibel, PhD\*, California State University Pomona, *Changing Geographies of Multiracial Americans.*

## **4664. Into the Void V: Disintegrated (Sponsored by Cultural Geography Specialty Group)**

*Room:* Boylston, Marriott, First Floor (Paper Session)

ORGANIZER(S): Paul T. Kingsbury, Simon Fraser University; Anna J Secor, University of Kentucky

CHAIR(S): Paul T. Kingsbury, Simon Fraser University

Introducer: Anna J Secor

**5:25** Keith Woodward\*, University of Wisconsin, *What is Constitution?*

**5:40** Lucas Pohl\*, Goethe-University Frankfurt am Main,

*Localizing the Void: The inexistent foundation of materialist geographies.*

**5:55** Anna J Secor\*, University of Kentucky; Jess D. Linz\*, University of Kentucky, *Politics for the Impasse.*

**6:10** Arun Saldanha\*, University of Minnesota - Minneapolis, *The Void in Materialism: Where Does Change Come From?*

**6:25** Harriet Hawkins\*, Royal Holloway, University of London, *Four Voids.*

Discussant(s): Paul T. Kingsbury, Simon Fraser University

## **4665. Feminist Geographies II - Silvia Federici meets Critics ['Reproduction at Point Zero'] (Sponsored by Geographic Perspectives on Women Specialty Group)**

*Room:* Tremont, Marriott, First Floor (Panel Session)

ORGANIZER(S): Sutapa Chattopadhyay, UNU-Merit & Maastricht University; Pierpaolo Mudu, University of Washington - Tacoma

CHAIR(S): Cindi Katz, CUNY Graduate Center

Introducer: Sutapa Chattopadhyay

Introducer: Caitlin Henry

Discussant(s): Silvia Federici; James A. Tyner, Kent State University

Panelists: Salvatore Engel-DiMauro, SUNY New Paltz; Pierpaolo Mudu, University of Washington - Tacoma; Alex Vasudevan

## **4667. Gendered Texts (Sponsored by Russian, Eurasian Specialty Group, Political Geography Specialty Group, Geographic Perspectives on Women Specialty Group)**

*Room:* Columbus 2, Marriott, First Floor (Paper Session)

ORGANIZER(S): Jeremy Tasch, Towson University

CHAIR(S): Jeremy Tasch, Towson University

**5:20** Neslihan Ataturk\*, University of Wisconsin-Madison, *The politics of m/othering: State discourse and the construction of womanhood in Turkey.*

**5:40** Yuliya Aliyeva\*, National Academy of Sciences, Azerbaijan, *Negotiating Gender Roles and Statuses in the Transnational Families of Azerbaijani Labour Migrants.*

**6:00** Vidyamali Samarasinghe\*, American University, *"Tomatoes, Shrimps and Sex": Finding the Weak Links in Supply chains of Human Trafficking.*

**6:20** Medea Badashvili\*, Tbilisi State University, *Human Agency in Migration: the impact of Migration on social and economical development.*

Discussant(s): Renata Blumberg, Montclair State University

## **4668. Climate Change Policies: Conflicts and Politics (Sponsored by Human Dimensions of Global Change Specialty Group, Climate Specialty Group, Environmental Perception and Behavioral Geography Specialty Group)**

*Room:* St. Botolph, Marriott, Second Floor (Paper Session)

ORGANIZER(S): RDK Herman, National Museum of the American Indian

CHAIR(S): Seth Tuler, Worcester Polytechnic Institute

**5:20** Kayly Ober\*, University of Bonn; Patrick Sakdapolrak, University of Vienna, *The King, Coups, and IOs? Oh my! Assemblages of climate change adaptation policy in Thailand.*

**5:40** Jeffrey T. Malloy, M.P.A.\*, University of New Hampshire; Catherine M. Ashcraft, Ph.D., University of New Hampshire, *Not All's Fair in Love and Climate Adaptation Planning.*

**6:00** Vanessa Lueck\*, Arizona State University, *Resistance to coastal climate change retreat and relocation: a battle over who defines the good?.*

**6:20** Seth Tuler\*, Worcester Polytechnic Institute, *A community-based approach to planning for the effects of climate change on shellfishing in Wellfleet Harbor.*

## **4669. Reweaving the Urban Socio-ecological Fabric 2: Green**



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## infrastructure, urban agriculture, and social justice (Sponsored by Cultural and Political Ecology Specialty Group, Urban Geography Specialty Group, Geographies of Food and Agriculture Specialty Group)

Room: Regis, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Sara Meerow, University of Michigan; Alec Foster, University of Michigan

CHAIR(S): Alec Foster, University of Michigan

5:20 Alec Foster\*, University of Michigan, School of Natural Resources and Environment; Joshua P. Newell, University of Michigan, School of Natural Resources and Environment, *Mapping Detroit's Lines of Desire: Informal Footpaths in the Motor City.*

5:38 Fallon Samuels Aidoo\*, Harvard University, *Permitting Privilege? Certified (In)Equities and (Dis)abilities of the Rails-to-Trails Movement.*

5:56 Bethany B. Cutts\*, North Carolina State University; Jonathan K. London, University of California, Davis; Shaina Meiners, University of California, Davis; Kirsten Schwarz, Northern Kentucky University; Mary L. Cadenasso, University of California, Davis, *Moving dirt: Soil, Lead and the Dynamics Spatial Politics of Urban Gardening.*

6:14 Amber Collett\*, Yale School of Forestry & Environmental Studies, *Urban re-greening, community identity, and perceptions of well-being in Harlem Park, West Baltimore.*

6:32 Evaldas Klimas\*, Mykolas Romeris University, *The legal requirements to encourage green infrastructure and urban agriculture in cities via the implementation of sustainable development principles in Lithuania.*

Discussant(s): Joshua P. Newell, University of Michigan

## 4670. Revolutionary Methodologies II (Sponsored by Socialist and Critical Geography Specialty Group)

Room: Northeastern, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Margath A. Walker, University of Louisville; Emmanuel Frimpong Boamah

CHAIR(S): Margath A. Walker, University of Louisville

5:20 Grace A Doherty, Master of Science candidate\*, George Washington University, *Reinterpreting Rural Poverty through Participatory Mapping in Morocco.*

5:40 Jennifer Mokos\*, Ohio Wesleyan University, *The complexities of community: Engendering change through ethnographic research across difference.*

6:00 Stacy Warren\*, Eastern Washington University; Robert Warren, University of Delaware, *Capitalism in the Sky - The 'Jetsons' and Future Life in an Aerial City.*

6:20 Amy Shimshon-Santo\*, CREO / Claremont Graduate University, *'Do Our Lives Matter?': Art Making for Urban Transformation.*

## 4672. Automated GISci for Network-based Decisions (Sponsored by Geographic Information Science and Systems Specialty Group, Spatial Analysis and Modeling Specialty Group, Transportation Geography Specialty Group)

Room: MIT, Marriott, Third Floor (Paper Session)

ORGANIZER(S): James Gaboardi, Florida State University; Levon Mikaelian, Florida State University

CHAIR(S): James Gaboardi, Florida State University

5:20 James D. Gaboardi\*, Florida State University, *An Out-of-Core Computational Approach to the Transportation Problem.*

5:40 Levon Mikaelian\*, Florida State University, *Improving PySAL for Transportation Applications: An Open Source Method for Computing Travel Cost Matrices Along Networks.*

6:00 Mohammed Mohammed Ali\*, SUNY - Albany, *Spatial Network Analysis for Burglary crimes: "The City of Albany".*

6:20 Yongha Park\*, The Ohio State University; Morton E. O'Kelly, The Ohio State University, *Exploration of a*

*spatial reliability of airport catchment area using the combined access time for ground and air journeys.*

6:40 Filiberto AsareAkuffo\*, Florida State University; Mark Horner, Florida State University, *Measuring Spatial Accessibility to Dental Care Using the Generalised Two-Step Floating Catchment Area Model.*

## 4673. Critical Worldbuilding 3: Politics and potentiality (Sponsored by Cultural and Political Ecology Specialty Group, Cultural Geography Specialty Group, Communication Geography Specialty Group)

Room: Boston University, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Jeffrey Vance Martin, University of California - Berkeley; Gretchen Leigh Sneegas, University of Georgia

CHAIR(S): Jeffrey Vance Martin, University of California - Berkeley

5:20 Emma Tait\*, University of Vermont, *Making Gamer Worlds in Mass Appeal Futuristic Online Games.*

5:40 Kate O'Neill\*, University of California - Berkeley, *Built Worlds and Habitats in Speculative Fiction: Vulnerability, Adaptation, and Sea-Steads in Space.*

6:00 Nandini Ramachandran\*, CUNY Graduate Center, *Trains of Thought.*

Introducer: Jeffrey Vance Martin

Discussant(s): Deborah Dixon, University of Glasgow

## 4674. Symposium on Human Dynamics in Smart and Connected Communities: Spatial Humanity in the Digital Era II (Sponsored by Geographic Information Science and Systems Specialty Group, Cartography Specialty Group)

Room: Simmons, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Ick Hoi Kim, National University of Singapore; Chen-Chieh Feng, Geography, National University of Singapore; Kenneth Dean, NUS

CHAIR(S): Ick Hoi Kim, National University of Singapore

5:20 Chen-Chieh Feng\*, Geography, National University of Singapore; Yi-Chen Wang, Geography, National University of Singapore, *Evaluating the Effectiveness of Visualization Tools for Understanding Relocation History of Singapore Temples.*

5:40 Diansheng Guo\*, University of South Carolina, *Historical Migration Analysis with Big Data of Family Trees.*

6:00 Martin Zaltz Austwick\*, CASA, UCL; Duncan Hay, CASA, UCL; Panagiotis Mavros, CASA, UCL; Kaisa Puustinen-Hopper, CASA, UCL; Shlomit Flint, CASA, UCL; Ying Vi; Anouchka Lettre, CASA, UCL; Amy Smith, Survey of London, Bartlett School of Architecture, UCL; Shahed Saleem, Survey of London, Bartlett School of Architecture, UCL; Sarah Milne, Survey of London, Bartlett School of Architecture, UCL; Aileen Reid, Survey of London, Bartlett School of Architecture, UCL; Andrew Saint, Survey of London, Bartlett School of Architecture, UCL; Peter Guillery, Survey of London, Bartlett School of Architecture, UCL, *The Survey of London, Participatory Web Mapping and Psychophysiology: Digital technologies in architectural history.*

6:20 Peter J Koby, MS\*, The Pennsylvania State University, *Temporal Data from a Digital Comparison of Historical Maps of Barbados.*

6:40 Gainbi Park\*, University of Wisconsin - Milwaukee; Zengwang Xu, University of Wisconsin - Milwaukee, *Temporal Dynamics of Social Vulnerability in the United States from 1970-2010: A Sequence Alignment Analysis.*

## 4675. Symposium on Human Dynamics in Smart and Connected Communities: Spatial-Social Networks in GIS 10 (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group, Spatial Analysis and Modeling Specialty Group)

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- Room:** *Suffolk, Marriott, Third Floor* (Paper Session)  
**ORGANIZER(S):** Xinyue Ye, Kent State University; Xingjian Liu, University of Hong Kong; Clio Andris  
**CHAIR(S):** Yahan Teng, Texas State University  
**5:20** Yahan Teng\*, Texas State University, *Information Diffusion of Terrorist Attacks on Twitter*.  
**5:40** Zhensheng Wang\*, Shenzhen Key Laboratory of Spatial Information Smart Sensing and Services, College of Civil Engineering, Shenzhen University, Shenzhen 518060, China, *Analysis of the Spatial Variation of Network-Constrained Phenomena Represented by a Link Attribute Using a Hierarchical Bayesian Model*.  
**6:00** Jie Lin\*, Zhejiang University; Robert Cromley, Department of Geography, University of Connecticut, *Spatiotemporal Analyses of Twitter Data for Inferring Residential Locations*.  
**6:20** Amy J. Blatt\*, TerraFirm International Corp., *The Interplay Between Human Movement and Mass Gatherings - Implications for Public Health and Patient Care*.  
**6:40** Vaishali Kushwaha\*, Northeastern University, *Developing a Model for Residential Energy Efficiency Assessment using Big Data: A Case Study of Boston*.

- 4677. What's School Got to Do with It?: Race, Resistance, and a Call for Critical Geographies of Education 3 (Sponsored by Political Geography Specialty Group, Cultural Geography Specialty Group, Ethnic Geography Specialty Group)**  
**Room:** *Harvard, Marriott, Third Floor* (Paper Session)  
**ORGANIZER(S):** Nicole Nguyen, University of Illinois - Chicago; Dan Cohen, University of British Columbia; Alice Huff, 1976  
**CHAIR(S):** Nicole Nguyen, University of Illinois - Chicago  
**5:20** Douglas L. Adams\*, University of Wisconsin, *Active Difference: A Geographical Approach to Children's Community Building*.  
**5:40** Ee-Seul Yoon\*, University of Manitoba; Mei-Po Kwan, University of Illinois at Urbana-Champaign, *Understanding School Choice through Marginalized Children's Perceptions of Urban Neighborhoods: Mental Maps*.  
**6:00** Denise Goerisch, Grand Valley State University, *Safe Spaces or Spaces of Containment?: Community and Belonging Amongst College Students of Color*.  
**6:20** Peter Hopkins\*, Newcastle University, *Young people and racism in education spaces*.  
**6:40** Amanda Huron, PhD\*, University of the District of Columbia, *Building Exclusionary Commons: Parent Fundraising and Public School Disparities*.

- 4679. Quantitative methods for land science (Sponsored by Geographic Information Science and Systems Specialty Group, Remote Sensing Specialty Group, Spatial Analysis and Modeling Specialty Group)**  
**Room:** *Arlington, Marriott, Third Floor* (Paper Session)  
**ORGANIZER(S):** Robert Gilmore Pontius, Clark University  
**CHAIR(S):** Robert Gilmore Pontius, Clark University  
**5:20** Katherine H. Fenn\*, Rutgers University, *Land change around Protected Forests of the New Jersey Highlands from 1986-2012*.  
**5:40** Laura C. Schneider\*, Rutgers University; Amy Lerner, Universidad Autonoma de Mexico; Thomas Rudel, Rutgers University; Megan McGroody, University of Virginia, *Trees from above: Using high-resolution remotely sensed data to understand ecosystem services in silvopastoral systems in the Ecuadorian Amazon*.  
**6:00** Jane Southworth\*, University of Florida; sadie ryan, university of florida; Hannah Herrero, University of Florida; Erin Bunting, USGS; Michael Hill, University of North Dakota; Peter Waylen, University of Florida; likai zhu, university of Wisconsin, *Global biome shifts in greenness persistence across three decades: climate and anthropogenic drivers differ by hemisphere, and*

*forests are in trouble*.

**6:20** Sam Khallaghi\*, Clark University, *Intensity analysis of components of difference by category in a square contingency table*.

**6:40** Robert Gilmore Pontius\*, Clark University; Ronald C Estoque, University of Tsukuba, *Comparison among Six Datasets of Forest at 2010 in The Philippines*.

- 4680. Author meets Critics: Refugees in Extended Exile: Living on the Edge by Jennifer Hyndman and Wenona Giles (Sponsored by Political Geography Specialty Group, Geographic Perspectives on Women Specialty Group, Ethics, Justice, and Human Rights Specialty Group)**

**Room:** *Berkeley, Marriott, Third Floor* (Panel Session)  
**ORGANIZER(S):** Patricia Ehrkamp, University of Kentucky  
**CHAIR(S):** Patricia Ehrkamp, University of Kentucky  
**Introducer:** Patricia Ehrkamp  
**Discussant(s):** Jennifer Hyndman, York University  
**Panelists:** Deirdre Conlon, University of Leeds / SPU; Caroline Nagel, University of South Carolina; Mathew Coleman, Ohio State University; Jennifer Fluri, University of Colorado, Boulder

- 4681. Framing urban sustainability: Smart, efficient, green, or just 4 (Sponsored by Human Dimensions of Global Change Specialty Group, Regional Development and Planning Specialty Group, Urban Geography Specialty Group)**  
**Room:** *Clarendon, Marriott, Third Floor* (Panel Session)  
**ORGANIZER(S):** Heather Sander, University of Iowa; Peleg Kremer, Villanova University  
**CHAIR(S):** Peleg Kremer, Villanova University  
**Discussant(s):** Daniel Trudeau, Macalester College; Peleg Kremer, Villanova University; Jason A. Byrne, Griffith University; Olubunmi Alugbin, Lagos State Ministry of Physical Planning and Urban Development, Nigeria  
**Panelists:** Heather Sander, University of Iowa; Jason A. Byrne, Griffith University

- 4683. Geographies of resistance within contemporary practices of immigration control.**

**Room:** *Exeter, Marriott, Third Floor* (Paper Session)  
**ORGANIZER(S):** Sarah Hughes, University of Durham; Patrycja Pinkowska, University of Exeter  
**CHAIR(S):** Patrycja Pinkowska, University of Exeter  
**5:20** Linda Annala\*, Hanken School of Economics; Nikodemus Solitander, Hanken School of Economics, *Appropriating power at refugee reception centers: 'homo sacer' and the strategies and everyday tactics of resistance*.  
**5:35** Leah Montange\*, University of Toronto, *Carceral Spaces and Counter-Carceral Visuals*.  
**5:50** Charalampos Tsavdaroglou\*, Dr Urban Planner, *No Border Actions and Emerging Common Spaces in Athens, Idomeni and Thessaloniki*.  
**6:05** Patrycja Pinkowska\*, University of Exeter, *I hope he wasn't resisting. Resistance and non-compliance in Immigration detention. The case of UK*.  
**Discussant(s):** Sarah Hughes, University of Durham

- 4684. Contested Terrains: Cities and the Possibilities for Transitions to Just Sustainabilities (Sponsored by Human Dimensions of Global Change Specialty Group, Urban Geography Specialty Group, Ethics, Justice, and Human Rights Specialty Group)**

**Room:** *Fairfield, Marriott, Third Floor* (Paper Session)  
**ORGANIZER(S):** Carol Atkinson-Palombo, University of Connecticut; Phoebe C. Godfrey, University of Connecticut  
**CHAIR(S):** Carol Atkinson-Palombo, University of Connecticut  
**5:20** Jessica T. Miller, Ph D\*, Temple University, *Inclusion and Exclusion in Environmental Decision Making*.  
**5:40** James B. Pick\*, University of Redlands, *A Model and Case Study of Renewable Energy Development, Coachella*

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Valley, California.

- 6:00** Carol Atkinson-Palombo\*, University of Connecticut; Phoebe Godfrey, University of Connecticut, *Contested Cities in the Wake of Brexit and Trump's Election*.  
Discussant(s): Phoebe C. Godfrey, University of Connecticut

**4685. Beyond gentrification? Considering new explanations of urban change (Sponsored by Urban Geography Specialty Group)**

- Room:** *Salon H, Marriott, Fourth Floor* (Paper Session)  
ORGANIZER(S): Jeff Garmany, King's College London; Matthew Aaron Richmond, Centro De Estudos da Metrópole  
CHAIR(S): Jeff Garmany, King's College London  
**5:20** Jeff Garmany\*, King's College London; Matthew Aaron Richmond, Centro De Estudos da Metrópole, *Limits to gentrification? Thinking through urban change in Latin America*.  
**5:40** Lisa M. Freeman, PhD\*, Kwantlen Polytechnic University, *Where's the Law (in the critical gentrification literature)?*.  
**6:00** Katherine E Foo, PhD MLA\*, Pennsylvania State University, *Dispossession, Not Gentrification: understanding "greening as growth" strategies in Boston, Philadelphia, and Baltimore*.  
**6:20** Benjamin N. Smith\*, Florida International University, *Urban Change without Rent Gap Gentrification: The Cultural Economies of Land Distribution in the Gulf Cities*.  
Discussant(s): D. Asher Ghertner, Rutgers University

**4686. Trees in the City 4: Monitoring Approaches to Understand the Socio-ecological Dynamics of the Urban Forest (Sponsored by Cultural and Political Ecology Specialty Group, Human Dimensions of Global Change Specialty Group, Urban Geography Specialty Group)**

- Room:** *Salon I, Marriott, Fourth Floor* (Panel Session)  
ORGANIZER(S): Shawn Landry, University of South Florida; Tenley Conway, University of Toronto- Mississauga  
CHAIR(S): Tenley Conway, University of Toronto- Mississauga  
Panelists: Shawn Landry, University of South Florida; Adam Berland, Ball State University; Lara Roman, USDA Forest Service; Michael Alonzo, American University

**4687. Design, Resilience and Critique in a Complex World (Sponsored by Political Geography Specialty Group, Cultural and Political Ecology Specialty Group)**

- Room:** *Salon J, Marriott, Fourth Floor* (Panel Session)  
ORGANIZER(S): Kevin Grove, Florida International University; Sara Holiday Nelson, University of Minnesota  
CHAIR(S): Elizabeth R. Johnson, Hobart & William Smith Colleges  
Introducer: Lauren Amy Rickards  
Discussant(s): Erik Swyngedouw, University of Manchester  
Panelists: Victoria Marshall, NUS; Jon Coaffee, University of Warwick; Eric M. Huntley, University of Kentucky; Svenja Keele, University of Melbourne; Bruce Braun, University of Minnesota - Minneapolis

**4688. Infrastructures of climate governance II: Market infrastructure (Sponsored by Cultural and Political Ecology Specialty Group, Energy and Environment Specialty Group, Economic Geography Specialty Group)**

- Room:** *Salon K, Marriott, Fourth Floor* (Paper Session)  
ORGANIZER(S): Sophie Webber, UCLA; Tyler Harlan, University of California, Los Angeles  
CHAIR(S): Leigh Johnson, University of Oregon  
**5:20** Patrick Bigger\*, Lancaster University; Leigh Johnson, Oregon University; Brett Christophers, Uppsala University, *Climate bonds and the infrastructure of risk distribution*.  
**5:40** Ariana Randal\*, Texas A&M University; Olivia Wolford\*,

TexasA&M University; Jayme Walenta, Texas A&M University, *Linking corporate climate investments and calculative practices across space*.

- 6:00** Matthew Archer\*, Yale University, *Incommensurabilities, Indicators, Infrastructures: The production and consumption of global sustainability*.  
**6:20** Sarah E. Knuth\*, University of Michigan, *Filling a "Financing Gap": US Clean Energy Infrastructure and the Securitization Frontier*.  
Discussant(s): Gregory Simon, University of Colorado Denver

**4689. Resource-based Communities and Resiliency: the case for planning (Sponsored by Regional Development and Planning Specialty Group, Energy and Environment Specialty Group)**

- Room:** *Vineyard, Marriott, Fourth Floor* (Paper Session)  
ORGANIZER(S): Leith Deacon, University of Alberta  
CHAIR(S): Leith Deacon, University of Alberta  
**5:20** Leith Deacon, PhD, RPP, MCIP\*, University of Alberta; Kristof Van Assche, PhD, University of Alberta; Monica Gruezmacher, PhD, University of Alberta, *Tempering the Cycles of Boom/Bust: Lessons from Western Canada*.  
**5:40** Kristin K. Smith\*, Montana State University; Julia H. Haggerty, PhD, Montana State University, *Planning for Pipelines: A Case Study in Community Resilience from the North Dakota Oil Fields*.  
**6:00** Stephan H. Nieweler, M.Sc.Pl.\*, Simon Fraser University, *Megaprojects and the Planning-Development Nexus in the Transitioning Industrial Towns of Northwest British Columbia*.  
**6:20** Julia Haggerty\*, Montana State Univ; Kristin Smith, MSc., Montana State University, *Impact Assessment & Monitoring in Energy Boomtowns: Benefits and Drawbacks of Adapting Existing Planning Models*.

**4690. Perspectives on Migration: Local to Global Dimensions III (Sponsored by Africa Specialty Group)**

- Room:** *Yarmouth, Marriott, Fourth Floor* (Paper Session)  
ORGANIZER(S): Raymond Asare Tutu, Delaware State University  
CHAIR(S): John Kwame Boateng, University of Ghana  
**5:20** Charlie Haifeng Zhang, Ph.D.\*, University of Louisville; Matthew Ruther, Ph.D., University of Louisville, *Revealing evidence of white flight in present-day U.S. metropolitan areas*.  
**5:40** Seokhoi Yim\*, Daegu University, *Geographical Features and Implications of Urban to Rural Migration in South Korea*.  
**6:00** Yanxia Wu\*, Oklahoma State University, *Spatial Analysis of Chinese Immigrants in US*.  
**6:20** Melissa Kelly\*, Carleton University, *Bridging the Divide? Retirement Migration across the Canada-U.S. Border*.

**4691. Urban Economies and the Ordinary Life J: Density and Sprawl**

- Room:** *Nantucket, Marriott, Fourth Floor* (Paper Session)  
ORGANIZER(S): John Miron, University of Toronto  
CHAIR(S): Diana Sarita Hamburger  
**5:20** Olof Stjernström\*, Umeå University; Magnus Strömberg, Umeå University; Olof Olsson, Umeå University; Urban Lindgren, Umeå University, *"The backyard regions" - The geography of uneven socio-economic development in non-metropolitan Sweden*.  
**5:40** Robert George\*, Oak Ridge National Laboratory; Marie Urban, Oak Ridge National Laboratory, *Digging Deeper with Microdata, a Population Density Modeling Methodology*.  
**6:00** Francesco Orsi\*, Kansas State University, *Population density and the provision of green space in large US cities: a geospatial analysis*.  
**6:20** Zhen Liu\*, Institute of Geographical Sciences and Resources, CAS; Haoran Jin, Institute of Geographical



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Sciences and Resources, CAS; Shenghe Liu, Institute of Geographical Sciences and Resources, CAS, *The sprawl degree among cities with different sizes: A case study of cities in China.*

- 6:40** Diana Sarita Hamburger\*, Federal University of ABC, Santo André, Brazil; Juliana Marin Pedro, Federal University of ABC, Santo André - Brazil, *Brazilian urban density, analysis and evaluation.*

**4692. Geospatial Health Research Symposium: Chronic Diseases III (Sponsored by Spatial Analysis and Modeling Specialty Group, Health and Medical Geography Specialty Group, Transportation Geography Specialty Group)**

*Room:* Provincetown, Marriott, Fourth Floor (Paper Session)

- ORGANIZER(S): Eric M. Delmelle, University of North Carolina at Charlotte; Mei-Po Kwan, University of Illinois at Urbana-Champaign; Michael J. Widener, University of Toronto
- CHAIR(S): Geoffrey M. Jacquez, SUNY - Buffalo State
- 5:20** Geoffrey M. Jacquez\*, University at Buffalo, *Emerging topics in geospatial cancer control and surveillance: Project Us and geospatial cryptography.*
- 5:40** Liora Sahar, PhD\*, American Cancer Society; Arthi Rao, PhD\*, American Cancer Society, *GIS to support Decision Making at different geographical and organizational scales within American Cancer Society.*
- 6:00** Niaz Morshed\*, Texas State University - San Marcos; F. Benjamin Zhan, Texas State University - San Marcos, *Late stage diagnosis factors of childhood cancer in Texas.*
- 6:20** Li Zhu\*, National Cancer Institute; Linda Pickle, Ph.D., StatNet Consulting; James Pearson, StatNet Consulting, *Confidence Intervals for Rate Ratios between Geographic Units.*
- 6:40** Raid Amin\*, University of West Florida; Anne Starling, University of West Florida; Camille Morgan, NIH; Li Zhu, NIH, *Geographic Clusters of Female Breast Cancer in the Contiguous US States.*

**4693. Geographies of Trauma 3: Embodiment and the possibilities for healing (Sponsored by Geographic Perspectives on Women Specialty Group)**

*Room:* Orleans, Marriott, Fourth Floor (Paper Session)

- ORGANIZER(S): Sarah Stinard-Kiel, Temple University; Alisa Shockley, Temple University
- CHAIR(S): Jacquelyn Micieli-Voutsinas, Wilfrid Laurier University
- 5:20** Sarah W Stinard-Kiel, MA\*, Temple University, *Wound politics, wound fetishism, and the rise of 'trauma-informed' social policies.*
- 5:40** Cathy van Ingen, Associate Professor, Brock University; Kimberly Gammage, Associate Professor, Brock University, *Body Work: Geographies of trauma and healing.*
- 6:00** Ebru Ustundag\*, Brock University; Courtney Donovan\*, San Francisco State University, *Visual Witness: Graphic Novels and Embodiment of Trauma.*
- 6:20** Dylan Fahoom\*, DePaul University, *Trigger Warnings in Theatre.*
- Discussant(s): Jacquelyn Micieli-Voutsinas, Wilfrid Laurier University

**4694. Geographic Inquiry, From Matters of Concern to Matters of Care**

*Room:* Hyannis, Marriott, Fourth Floor (Paper Session)

- ORGANIZER(S): Stephen Healy, University of Western Sydney, Institute for Culture and Society; Kelly Dombroski, University of Canterbury
- CHAIR(S): Stephen Healy, University of Western Sydney, Institute for Culture and Society
- 5:20** Kelly Dombroski\*, University of Canterbury, *Learning to be Affected: Maternal connection, intuition, and*

*'elimination communication'.*

- 5:38** Sean Tanner\*, Rutgers University, *Learning to Respect Shifting Ontologies: Actor-Network Theory Through a Feminist Lens.*
- 5:56** L. Kate Boyer, PhD\*, Geography and Planning, Cardiff University, *The non-human in relations of care.*
- 6:14** Stephen Healy\*, University of Western Sydney, Institute for Culture and Society, *Deliver us from Harmful Anxiety: Community Economy, Commons and the Logic of Maternity Care.*
- 6:32** Scott Sharpe\*, University of New South Wales at Canberra, *In the Space between Political and Libidinal economy.*
- Discussant(s): Eric Sarmiento, Texas State University - San Marcos

**4695. Historical Medical/Health Geography (Sponsored by Spatial Analysis and Modeling Specialty Group, Health and Medical Geography Specialty Group, Historical Geography Specialty Group)**

*Room:* Falmouth, Marriott, Fourth Floor (Paper Session)

- ORGANIZER(S): Amanda Weber, Oklahoma State University; Brian Bossak, College of Charleston
- CHAIR(S): Amanda Weber, Oklahoma State University
- 5:20** Eric D. Carter\*, Macalester College, *The Health of the People: A History of Latin American Social Medicine.*
- 5:40** Amanda Weber\*, Oklahoma State University, *The Spanish Flu: a Framework for Historical Demographic Mortality Analysis in the United States.*
- 6:00** Brian H Bossak, PhD, MPH\*, College of Charleston, *Spatial and Seasonal Variance in Peak Mortality during the "Spanish Flu" of 1918.*
- 6:20** Korine Kolivras\*, Virginia Tech; Danielle Short, Virginia Tech; Yang Shao, Virginia Tech; Kaja Abbas, Virginia Tech, *Diffusion of the 1918-1919 Influenza Pandemic through World War I Military Camps.*
- 6:40** Melinda Butterworth, PhD\*, Willamette University; Paige Yeakle, Willamette University; Alia Razid, *Looking to the past to contextualize the potential emergence of dengue fever in the US.*

**4696. Indigenous and Western knowledge systems brought into pedagogical practice in post-secondary Geography education (Sponsored by Indigenous Peoples Specialty Group)**

*Room:* Maine, Marriott, Fifth Floor (Panel Session)

- ORGANIZER(S): Nicole Laliberte, University of Toronto - Mississauga
- CHAIR(S): Nicole Laliberte, University of Toronto - Mississauga
- Panelists: RDK Herman, National Museum of the American Indian; Jay T. Johnson, University of Kansas; Soren Larsen, University of Missouri; Natalie Bartmes, University of Winnipeg; Laura Shillington, John Abbott College

**4698. Neo-Extractivism, Resource Nationalism, and 'New' Geographies of Resource Governance and Development (5) (Sponsored by Political Geography Specialty Group, Cultural and Political Ecology Specialty Group, Development Geographies Specialty Group)**

*Room:* New Hampshire, Marriott, Fifth Floor (Panel Session)

- ORGANIZER(S): Emily Billo, Goucher College; Meredith J. DeBoom, University of Colorado at Boulder
- CHAIR(S): Meredith J. DeBoom, University of Colorado at Boulder
- Discussant(s): Anthony J. Bebbington, Clark University
- Panelists: Anna Zalik, York University; Caitlin McElroy, Oxford University; Elizabeth Havice, University of North Carolina-Chapel Hill; Tom Perreault, Syracuse University; Gabriela Valdivia, University of North Carolina - Chapel Hill

**4699. Regional Development and Urban Planning Series V**



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(Sponsored by Regional Development and Planning Specialty Group, Urban Geography Specialty Group, Development Geographies Specialty Group)

Room: *Vermont, Marriott, Fifth Floor* (Paper Session)

ORGANIZER(S): Zachary A. Jones, Eastern Michigan University

CHAIR(S): Sanjeev Vidyarthi, University of Illinois At Chicago

5:20 Andrea Hendrick\*, Grand Valley State University; Kin Ma, PHD, Grand Valley State University; Judith Transue, Grand Valley State University, *Collecting a Comprehensive Index of Housing in the Seeds of Promise Neighborhood.*

5:40 Rodney W Caldicott\*, Southern Cross University; John Jenkins, Southern Cross University; Pascal Scherrer, Southern Cross University, *My RV = My home! Freedom camping (boondocking) in Australia - a challenging "mobility" for urban planning and policy.*

6:00 Nuno Marques Costa\*, Universidade de Lisboa CEG-IGOT; Eduarda Marques Costa, Universidade de Lisboa CEG-IGOT; Ana Louro, Universidade de Lisboa CEG-IGOT, *Challenges on urban planning to health cities - from concepts to local plans in Portuguese context.*

6:20 Pascal De Decker\*, KU Leuven; Isabelle Pannecoucke; Elise Schillebeeckx; Emma Volckaert, *The retaliation of geography. Ageing in place in urban sprawl; the case of Belgium.*

6:40 Ashok Kumar, Professor, School of Planning and Architecture, New Delhi; Sanjeev Vidyarthi\*, University of Illinois At Chicago, *Mapping the Planners of Urban India.*

## SATURDAY, April 8 • 7:10 PM - 8:10 PM • 4700

### 4739. AAG Shorts - Film Screening II

Room: *Independence West, Sheraton, Second Floor* (Panel Session)

ORGANIZER(S): Jessica Jacobs, Queen Mary University of London

CHAIR(S): Jessica Jacobs, Queen Mary University of London

\*\*\* Continued into next slot, 4839

### 4772. Human Dimensions of Global Change Specialty Group Business Meeting (Sponsored by Human Dimensions of Global Change Specialty Group)

Room: *MIT, Marriott, Third Floor* (Meeting Session)

### 4774. Development Geographies Specialty Group Business Meeting (Sponsored by Development Geographies Specialty Group)

Room: *Simmons, Marriott, Third Floor* (Meeting Session)

### 4839. AAG Shorts - Film Screening II

Room: *Independence West, Sheraton, Second Floor* (Panel Session)

This session is a continuation of the previous timeslot, 4739.

### 4869. Landscape Specialty Group Business Meeting (Sponsored by Landscape Specialty Group)

Room: *Regis, Marriott, Third Floor* (Meeting Session)

### World Geography Bowl

Saturday, April 8, 7:00 p.m. - 11:00 p.m.

Room: *Rooms 101-105, Hynes, Plaza Level*

Student teams from the AAG's regional divisions will compete in a round-robin tournament starting at 7:00 p.m. in Rooms 101-105 at the Hynes Convention Center. The championship round will begin at approximately 10:00 p.m.

World Geography Bowl Executive Director:  
**Jamison Conley**, West Virginia University

World Geography Bowl Administrative Director:  
**Kelsey Taylor**, American Association of Geographers



*Presenting author(s) are indicated with an asterisk (\*).*

*For special events, please see the Special Events & Meetings Summary on pages 60-66.*

*For the Key to Session Numbers & Room Numbers, please see pages 96-97.*

**Download the AAG 2017 Mobile App for  
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**SUNDAY, April 9 • 8:00 AM - 9:40 AM • 5100****5106. Geographies of Aging, Health and Health Care 1 (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme, Health and Medical Geography Specialty Group)****Room:** Room 107, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Mark W. Rosenberg, Queen's University; Jessica Finlay, University of Minnesota; Kyle Plumb, Queens University

CHAIR(S): Jessica Finlay, University of Minnesota

**8:00** Alexandra Boyle\*, Queen Mary University of London, *Exploring the emotio-spatial dimensions of communication technology use among older adults in contemporary London.***8:20** Valorie Crooks\*, Simon Fraser University; Melissa Giesbrecht, Simon Fraser University; Heather Castleden, Queen's University; Nadine Schuurman, Simon Fraser University; Mark Skinner, Trent University; Allison Williams, McMaster University, *Palliating inside the lines: The effects of borders and boundaries on palliative care in rural Canada.***8:40** Peiling Zhou\*, Michigan State University; Anne K. Hughes, Michigan State University; Sue C., Grady, Michigan State University, *Physical activity and chronic disease conditions among older adults in China's small city: a longitudinal analysis.***9:00** Kyle Plumb\*, Queens University, *Placing Person-Centred Care.***9:20** Kelly Ann Renwick\*, McGill University; Nancy Ross, Professor, McGill University; Claudia Sanmartin, PhD, Statistics Canada, *Social Support as a Determinant of Premature Mortality and Hospital Utilization in Canada.***5107. Spaces of Informality and the Governing of Slums (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme, Urban Geography Specialty Group, Association of American Geographers)****Room:** Room 108, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Mona Atia, George Washington University; Zora Kovacic, Universitat Autònoma de Barcelona

CHAIR(S): Mona Atia, George Washington University

**8:00** Zora Kovacic\*, Universitat Autònoma de Barcelona, *The exacerbation of social exclusion through slum upgrading.***8:20** Mona Atia, PhD\*, George Washington University; Said Samlali, L'INAU, *The Moroccan City without Slums Program: Successes and Limits of the Intervention.***8:40** Ezana Haddis Weldeghebrael\*, University of Manchester, *Aspiring "Developmental" State's Spatial Strategy Towards Slum for Accumulation and Hegemonic Purpose: The Case of Addis Ababa.***9:00** Tahire Erman\*, Bilkent University, *Spatial Clustering of Migrants/Refugees and Slum/Squatter Renewal Projects in the Turkish Context: Multiple Vulnerabilities in Neoliberal Urban Restructuring.***9:20** Amy Richmond, PhD\*, USMA West Point, *How does Informality influence Household Vulnerability: A Case study of Kampala, Uganda.***5108. Indigenous Knowledge and Development (Sponsored by Environmental Perception and Behavioral Geography Specialty Group, Indigenous Peoples Specialty Group)****Room:** Room 109, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): RDK Herman, National Museum of the American Indian

CHAIR(S): Paolo Davide Farah, West Virginia University

**8:00** Mohamed Babiker Ibrahim\*, Hunter College - CUNY, *New Successful Pass of Development Theory in Africa: The Case of Sudan.***8:20** Jean Baptiste Faye\*, University of Oregon, *Farming and Meaning at the Desert's Edge: Can Serer Indigenous Agricultural and Cultural Systems Co-Evolve towards**Sustainability?***8:40** Zahra Hussain\*, University of Durham - Durham, *Mapping worldviews through Creative Participatory Research.***9:00** Yicong Yang\*, Cornell University, *Human activities and biodiversity: a study of spatial interactions between human settlements and species richness in Brazilian Amazon.***9:20** Paolo Davide Farah\*, West Virginia University, John D. Rockefeller IV School of Policy and Politics, Department of Public Administration, *The North-South Divide regarding Intellectual Property, Biodiversity and Traditional Knowledge and the Implications for Food Security: A Focus on Indigenous People and Farmer's Rights.***5109. Environmental Factors, Livelihoods, and Health (Sponsored by Africa Specialty Group)****Room:** Room 110, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Raymond Asare Tutu, Delaware State University

CHAIR(S): Joseph R. Oppong, University of North Texas

**8:00** Joseph R. Oppong\*, University of North Texas, *The Challenge and Changing Geography of Non-communicable Diseases in Africa.***8:20** Kwadwo Owusu\*, Department of Geography and Resource Development, University of Ghana, Legon. Ghana; Selina Baffour-Asare, Department of Sociology and Human Geography, University of Oslo, Norway; Peter Bilson Obour, Aarhus University, Department of Agroecology, Research Centre Foulum, Denmark, *Rainfall Changes in the Savannah Zone of Northern Ghana 1961-2010.***8:40** Anna Solberg\*, Kent State University, *International Tourist Perceptions of their Environmental Impacts in Tanzania.***9:00** Sian Reece, MD, University of York; Kamran Siddiqi, MD, PhD, University of York; Camille Morgan\*, US National Cancer Institute, Center for Global Health; Mark Parascandola, PhD, US National Cancer Institute, *Prevalence of second-hand smoke exposure during pregnancy: a secondary analysis of demographic and health surveys in 30 low- and middle- income countries.***9:20** Solomon Eghosa Uhumamure\*, University of Venda; Nthaduleni Samuel Nethengwe, University of Venda; David Tinarwo, University of Venda, *Developing a Comprehensive Model for Biogas Adoption and Sustainable Utilization: A Case of Rural Villages in Limpopo Province, South Africa..***5110. Climate Change and Health: What is the Curriculum?****Room:** Room 111, Hynes, Plaza Level (Panel Session)

ORGANIZER(S): David M. Hondula, Arizona State University

CHAIR(S): David M. Hondula, Arizona State University

Panelists: David M. Hondula, Arizona State University

**5111. Transnational urban expertise: geopolitics, histories and mobilities 1****Room:** Room 200, Hynes, Second Level (Paper Session)

ORGANIZER(S): Hannah Neate, Manchester Metropolitan University; Ruth Craggs, King's College London

CHAIR(S): Hannah Neate, Manchester Metropolitan University

**8:00** Ida Andersson\*, Stockholm University; Ian R. Cook, Northumbria University, *Policy tourism and conferences: Staging the European Week of Regions and Cities in Brussels.***8:20** C.P. POW\*, National University of Singapore, *Constructing Authority: Embodied expertise and the globalization of Singapore's private planning overseas.***8:40** Andrew Brooks\*, King's College London, *Populism and Passive Revolution in Urban Southern Africa.*

Discussant(s): Ayona Datta, King's College London



**SUNDAY, April 9 • 8:00 AM - 9:40 AM • 5100****5113. Contested Urban Territories 1: Socio-Territorial Regulations**

**Room:** Room 202, Hynes, Second Level (Paper Session)  
 ORGANIZER(S): Monika Streule, ETH Zurich; Anke Schwarz, University of Hamburg  
 CHAIR(S): Anke Schwarz, University of Hamburg  
**8:00** Anke Schwarz\*, Leipzig, *Transposing territory to the urban scale. Contestations over land use in Mexico City's periphery.*  
**8:20** Elena Trubina, Prof.\*, Ural Federal University, *Practicing territory in the narratives of Colombians and Russians: between "political" and urban understanding of territory.*  
**8:40** Vera Smirnova\*, Virginia Tech, *On the Territorialization of Crisis: Enclosure and Communal Landed Relations in the late Tsarist and post-Soviet Moscow.*  
**9:00** Camilla Perrone, Associate Professor\*, University of Florence, Italy, *Territory Matters: Spatial implications of post-metropolitan transition.*  
 Discussant(s): Christian Schmid, ETH Zurich

**5114. Research of urban crime in China and USA**

**Room:** Room 203, Hynes, Second Level (Paper Session)  
 ORGANIZER(S): Lin Liu, University of Cincinnati  
 CHAIR(S): Lin Liu, University of Cincinnati  
**8:00** Lin Liu\*, University of Cincinnati; Lin Liu, Sun Yat-sen University, *Recent Development of Crime Research in ZG City, China.*  
**8:20** Lin Liu, Sun Yat-sen University; University of Cincinnati; Fangye Du\*, Sun Yat-sen University; Guangwen Song, Sun Yat-sen University, *Identification of urban crime space types and its characteristics analysis.*  
**8:36** Dongping Long\*, Sun Yat-sen University; Lin Liu, Sun Yat-sen University, University of Cincinnati; Suhong Zhou, Sun Yat-sen University, *Comparisons of the community environment effects on burglary and outdoor-theft: A case study of ZG city, China.*  
**8:52** Minxuan Lan\*, Department of Geography, University of Cincinnati, Cincinnati, Ohio; Lin Liu, Department of Geography, University of Cincinnati, Cincinnati, Ohio; School of Geography and Planning, Sun Yat-sen University, Guangzhou, China., *Assessing the Impact of A New Casino on Neighborhood Crime in Downtown Cincinnati.*  
**9:08** Haojie Zhu\*, Louisiana State University; Fahui Wang, Louisiana State University, *A Multi-Agent Crime Simulation from Routine Activity Perspective: A Case Study with Robbery Incidents in Baton Rouge, Louisiana.*

**5115. Approaches in Visualization and Mapping**

**Room:** Room 204, Hynes, Second Level (Paper Session)  
 ORGANIZER(S): Program Committee  
 CHAIR(S): Hyowon Ban, California State University, Long Beach  
**8:00** Nuria Font-Casaseca\*, Universitat de Barcelona, Facultat Geografia i Historia, *Critical mapping practices against urban injustice: the Chicago's Hull House pragmatic experience.*  
**8:20** Shen Ying\*, Wuhan University, *Visualization and interaction for coherent set of 3D property units.*  
**8:40** Zhipeng Gui\*, Wuhan University; Yuan Wang, Wuhan University; Fa Li, Wuhan University; Xi Long, Wuhan University; Siyu Tian, Wuhan University; Huayi Wu, Wuhan University, *Developing a web-based visual analytics framework for massive POI dataset - Taking enterprise registration data as an example.*  
**9:00** Hyowon Ban\*, California State University, Long Beach; Hye-jin KIM\*, Korea Research Institute of Ships & Ocean Engineering, *RElative MOtion (REMO) Analysis and Visualization of Vessels Movements.*

**5117. Urban Transformation and Neighborhood Changes**

**Room:** Room 206, Hynes, Second Level (Paper Session)  
 ORGANIZER(S): Program Committee  
 CHAIR(S): Sujata Shetty, University of Toledo  
**8:00** Sean Grisdale\*, University of Toronto, *Belong Anywhere: The "Peer to Peer" Economy and Urban Transformation in Toronto.*  
**8:20** Kimberley Kinder\*, University of Michigan, *Space, symbolism, and aesthetics in Detroit's informal cultural landscape.*  
**8:40** Kyungsoon Wang\*, Georgia Institute of Technology; Dan Immergluck, Georgia Institute of Technology; Subhro Guhathakurta, Georgia Institute of Technology, *Metro Matters: Explaining Neighborhood-Level Changes in Long-Term Vacant Housing.*  
**9:00** Dian Tri Irawaty\*, UCLA, *Jakarta's Urban Kampung: Conceptions, Interventions and their Evolution.*  
**9:20** Sujata Shetty\*, University of Toledo; Owusua Yamoah\*, University of Toledo; Beth Schlemper, University of Toledo; Kevin Czajkowski, University of Toledo; Victoria Stewart, University of Toledo; Brinda Athreya, University of Toledo, *Understanding Changing Perceptions of Neighborhood and Increasing Community Engagement among Youth: What Sketch Maps and Qualitative GIS Can Tell Us.*

**5119. Looking at High- and Low-Level Crime, Criminality, and Criminalization in a Geographic Context.**

**Room:** Room 210, Hynes, Second Level (Paper Session)  
 ORGANIZER(S): Stefano Bloch, Brown University; Yesim Sungu  
 CHAIR(S): Stefano Bloch, Brown University  
**8:00** Rafael Guimaraes Ramos\*, University of California - Santa Barbara, *Is finer better? Examining the limits of crime data aggregation at the street segment level..*  
**8:20** Dugan Meyer\*, University of Kentucky, *Disordering Milwaukee: The Safe Zones Initiative and the Spectacle of Policing.*  
**8:40** Riccardo Di Clemente\*, MIT Massachusetts Institute of Technology; Marta González, MIT Massachusetts Institute of Technology, *Revealing clusters of criminal offences.*  
**9:00** Yesim Sungu\*, Brown University; Stefano Bloch, Brown University, *Analyzing the Relationship between Violent Crime and Graffiti in Providence.*  
**9:20** Stefano Bloch, Ph.D.\*, Brown University, *Do Civil Gang Injunctions Advance a Race-Based and Revanchist Form of Gentrification?.*

**5121. Environmental Change: Monitoring, Estimating, and Predicting**

**Room:** Room 301, Hynes, Third Level (Paper Session)  
 ORGANIZER(S): Program Committee  
 CHAIR(S): Mary D. Stampone, University Of New Hampshire  
**8:00** Francesco Zignol\*, Texas State University, *Surface Water Temperature Estimates Based on Historical Records and Local-Scale Future Projections of Air Temperature in the Flathead Indian Reservation.*  
**8:20** Upendra B Bom\*, Texas State University - San Marcos, *Understanding the relationship between rise in the average CO2 emission and crop yield change in developed and developing countries in 2020..*  
**8:40** An-Min Wu\*, Spatial Sciences Institute, University of Southern California; Ed Nater, Department of Soil, Water, and Climate, University of Minnesota; Charles H Perry, Northern Research Station, US Forest Service, *Identifying terrain attribute effects on soil organic carbon stock in US forests.*  
**9:00** Daniel Schall, University of Maryland Baltimore County; David Lansing\*, University of Maryland - Baltimore County, *Understanding Divergent Values Toward Environmental Change and Regulation in the*

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- 9:20** Nathan W. Siegert, US Forest Service; Piera Y. Siegert, New Hampshire Department of Agriculture, Markets & Food; Mary D. Stampone\*, University Of New Hampshire, *Degree Day Accumulation Maps for Improved Timing of Insect Pest Management in New Hampshire.*

**5123. Emerging Innovation Clusters**

- Room:** Room 303, Hynes, Third Level (Paper Session)  
ORGANIZER(S): Program Committee  
CHAIR(S): Yu-Chieh Hsieh, Graduate Institute of Earth Science, Chinese Culture University
- 8:00** Jongmin Choi\*, University of North Carolina - Chapel Hill, *The Emergence of 3D Printing: the Geographic Diffusion of a General-Purpose Technology.*
- 8:20** Henry C. Renski\*, University of Massachusetts - Amherst; John Deconte, University of Massachusetts Amherst; Carla Maria Kayanan, University of Michigan, *Live, Innovate and Play: A Case Study of the Boston Seaport Innovation District.*
- 8:40** Henrik Brynthe Lund, PhD candidate\*, Department of Geography, Norwegian University of Science and Technology; Asbjørn Karlsen, Professor, Department of Geography, Norwegian University of Science and Technology, *Redefining the Skilled Worker in High-Tech Manufacturing. A Case Study of How Norwegian Manufacturing Regions Respond.*
- 9:00** Kyeongran Roh\*, Kyung Hee University; Sungjae Choo, Professor, Kyung Hee University, *Social hub for social venture: Sharing spaces for innovation for the case of the Seoul forest project.*
- 9:20** Yu-Chieh Hsieh\*, Chinese Culture University; Yi-Ru Tseng, Graduate Institute of Earth Science, Chinese Culture University, *The Clustering and Innovation of Education Service Industry in Taipei City.*

**5124. "Revisiting 'The Idea of Chinatown': Asian American Place in the 21st Century"**

- Room:** Room 304, Hynes, Third Level (Panel Session)  
ORGANIZER(S): Rebecca J. Kinney, Bowling Green State University  
CHAIR(S): Rebecca J. Kinney, Bowling Green State University  
Panelists: Rebecca J. Kinney, Bowling Green State University; Wendy Cheng, Scripps College; Shaolu Yu, Rhodes College; Brian Su-Jen Chung, University of Hawaii - Manoa

**5125. Borders, Boundaries and the Geographies of Primitive Accumulation**

- Room:** Room 305, Hynes, Third Level (Paper Session)  
ORGANIZER(S): Chris Hesketh  
CHAIR(S): Adam D. Morton, University of Sydney
- 8:00** Marie-Josée Massicotte\*, University of Ottawa, *"Accumulation by Dispossession", Colonialism and Commodification of Mother Earth: A Comparative Analysis of Canada and Mexico.*
- 8:20** Chris Hesketh\*, Oxford Brookes, *Territory, rights and class: the scale of an environmental problem.*
- 8:40** Charles Fogelman\*, University of Illinois, *Gender, Accumulation, and Dispossession in Lesotho.*  
Introducer: Adam D. Morton

**5126. Using Emerging Forms of Technology for Spatial Data Collection Toward Disaster Response and Management**

- Room:** Room 306, Hynes, Third Level (Panel Session)  
ORGANIZER(S): Lily Bui, Massachusetts Institute of Technology  
CHAIR(S): Lily Bui, Massachusetts Institute of Technology  
Introducer: Lily Bui  
Panelists: Caryn Saslow; Michael J. Foster, MIT; Matthew Gibb, American Red Cross

**5128. Health and Discourse Across Scales (Sponsored by Health and Medical Geography Specialty Group)**

- Room:** Room 308, Hynes, Third Level (Paper Session)  
ORGANIZER(S): Margaret Wilson, University of Washington; Skye Naslund, University of Washington  
CHAIR(S): Margaret Wilson, University of Washington
- 8:00** Chelsea Leiper\*, University of Delaware, *"Re-Wilding" as a Health Strategy in the Anthropocene.*
- 8:20** Catriona Gold\*, University College London, *Ebola: a crisis of circulation?.*
- 8:40** Skye Naslund\*, University of Washington, *(Re)Scaling Parasitic Discourses: From Body Snatchers to What Nature Intended.*
- 9:00** Sara Newman\*, University of Colorado - Denver, *Social Construction of Nature and Health; Perceived Health Benefits Associated with Engagement with Klondike Gold Rush National Historical Park.*
- 9:20** Margaret Wilson\*, University of Washington, *Culture, Difference, and Mental Illness: Implications for Global Health.*

**5129. Filmmaker meets critics: The Prison in Twelve Landscapes**

- Room:** Room 309, Hynes, Third Level (Panel Session)  
ORGANIZER(S): Deborah Cowen, University of Toronto; Brett Story, University of Toronto  
CHAIR(S): Ruth Wilson Gilmore, CUNY Graduate Center  
Discussant(s): Ruth Wilson Gilmore, CUNY Graduate Center  
Panelists: Jordan Camp; Omar Jabary Salamanca, Columbia University; Brett Story, University of Toronto; Annie Spencer, CUNY - Graduate Center

**5130. Decolonizing Water: Indigenous water politics, resource extraction, and settler colonialism (Sponsored by Energy and Environment Specialty Group, Indigenous Peoples Specialty Group)**

- Room:** Room 310, Hynes, Third Level (Panel Session)  
ORGANIZER(S): Karen Bakker, University of British Columbia; Glen Coulthard, University of British Columbia  
CHAIR(S): Karen Bakker, University of British Columbia  
Introducer: Karen Bakker  
Discussant(s): RDK Herman, National Museum of the American Indian  
Panelists: Glen Coulthard, University of British Columbia; Andrew Curley; Naomi Simmonds, The University of Waikato

**5132. Hybrid Metabolic Contradictions: Ecosocialism or Ecosocialisms?**

- Room:** Room 312, Hynes, Third Level (Panel Session)  
ORGANIZER(S): Alan P. Rudy, Michigan State University  
CHAIR(S): Alan P. Rudy, Michigan State University  
Panelists: Brian Gareau, Boston College; Alan P. Rudy, Michigan State University

**5138. Food Security (Sponsored by Geographies of Food and Agriculture Specialty Group)**

- Room:** Independence East, Sheraton, Second Floor (Paper Session)  
ORGANIZER(S): RDK Herman, National Museum of the American Indian  
CHAIR(S): Venkata Shashank Konduri, Northeastern University
- 8:00** Nedham Alshafai\*, Qatar University, *The Food Security in the State of Qatar.*
- 8:20** Sandesh Yadav\*, Jamia Millia Islamia, Delhi, India, *Interwoven Aspects of Urban Farming, Urban Poverty and Food Security: A Case Study of Urban Delhi.*
- 8:40** Audrey Culver Smith\*, University of Florida; Di Yang, University of Florida; Mehmet Ozdes, University of Florida; Jane Southworth, Dr., University of Florida, *Vegetation dynamics and undernutrition: A spatiotemporal analysis of NDVI and child stunting in Zambia.*
- 9:00** Valerie Stull\*, University of Wisconsin; Michael Bell,

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University of Wisconsin, *Edible Insects in Society, Do They Have a Future?: a Rural Zambian Case Study.*

- 9:20 Venkata Shashank Konduri\*, Northeastern University; Auroop R. Ganguly, Northeastern University, *Impact of future climate extremes on global food security.*

**5139. Applied Atmospheric Science**

Room: *Independence West, Sheraton, Second Floor* (Paper Session)

ORGANIZER(S): Ted C. Eckmann, University of Portland

CHAIR(S): Ted C. Eckmann, University of Portland

- 8:00 Logan K. Simpson\*, University of Portland; Joe L. Walker, University of Portland; Ted C. Eckmann, University of Portland, *Analyzing Concentrations of Airborne Carcinogens in Portland, Oregon.*

- 8:20 Joe L. Walker\*, University of Portland; Logan K. Simpson, University of Portland; Samantha G. Wright, University of Portland; Ted C. Eckmann, University of Portland, *Identifying Sources of Industrial Odors Using Winds and Spatial Monitoring.*

- 8:40 Margaret E. Bruckner\*, University of Portland; Ted C. Eckmann, University of Portland, *Measuring Atmospheric Stability Using New Drone and Tethersonde Systems.*

- 9:00 Ted C. Eckmann\*, University of Portland, *Modeling Future Climate Change Impacts for Landowners and Municipal-Scale Stakeholders.*

**5140. Ecologies of the colonial present: Legacies in environmental policy and practice (Sponsored by Cultural and Political Ecology Specialty Group)**

Room: *Liberty B, Sheraton, Second Floor* (Paper Session)

ORGANIZER(S): Paul Robbins, Nelson Institute for Environmental Studies, University of Wisconsin; Diana K. Davis, University of California - Davis

CHAIR(S): Paul Robbins, Nelson Institute for Environmental Studies, University of Wisconsin

- 8:00 Thomas J. Bassett\*, University of Illinois, *Seeing the Forest Through the Trees: The Cashew Boom and Reforestation of the Ivorian Savanna.*

- 8:20 Martha G. Bell\*, Pontifical Catholic University of Peru, *Colonial water management in Lima, Peru and its lingering effects.*

- 8:40 Paul Robbins\*, Nelson Institute for Environmental Studies, University of Wisconsin, *Colonial Forest Legacies: From taux de boisement to the National Mission for a Green India.*

- 9:00 Diana K. Davis, UC Davis, *The Tyranny of Trees: Arboreal Chauvinism, Civilization and the Taux de Boisement.*

- 9:20 Nathan F. Sayre, University of California, Berkeley, *Replacing the Range: Colonial Legacies in Rangeland Ecology and Management.*

**5141. Teaching GIS in Africa (Sponsored by Geographic Information Science and Systems Specialty Group, AAG Careers and Professional Development Theme, Africa Specialty Group)**

Room: *Liberty C, Sheraton, Second Floor* (Panel Session)

ORGANIZER(S): Michael Gould, Esri

CHAIR(S): Michael Gould, Esri

Discussant(s): Michael Gould, Esri

Panelists: Melinda J. Laituri, Colorado State University; Niina Käyhkö, Fulbert Namwamba, Salisbury University; Johnathan B. Bascom, Calvin College; Bernadette Arakwiye, Clark University; Thoralf Meyer, University of Texas - Austin

**5142. Formal and informal dynamics of affordable housing development (Sponsored by China Specialty Group, Asian Geography Specialty Group, Urban Geography Specialty Group)**

Room: *Back Bay Ballroom A, Sheraton, Second Floor* (Paper Session)

ORGANIZER(S): Shenjing He, The University of Hong Kong;

Youqin Huang, SUNY - Albany

CHAIR(S): Shenjing He, The University of Hong Kong

- 8:00 Shenjing He\*, The University of Hong Kong, *Bridging formal and informal dynamics of affordable housing development in urban China.*

- 8:20 Youqin Huang\*, SUNY - Albany, *Informal Housing and Housing Mobility in Chinese Cities.*

- 8:40 Linda Shi, Massachusetts Institute of Technology; Xi Qiu, Massachusetts Institute of Technology; Zachary Beaird Lamb, Massachusetts Institute of Technology; Lawrence Vale, Massachusetts Institute of Technology; Hongru Cai\*, MIT, *Tenure Security and Urban Resilience: The Power of Collective Title in China's Urban Villages.*

- 9:00 Daniel You-Ren Yang\*, Department of Sociology, Tunghai University, *The property-led relocation, institutionalized rent gap and housing stratification in Shanghai.*

**5143. The makeshifts of evictions, occupations and resistance**

Room: *Back Bay Ballroom B, Sheraton, Second Floor* (Panel Session)

ORGANIZER(S): Michele Lancione; Melissa Fernandez

CHAIR(S): Michele Lancione

Panelists: Katherine Brickell, Royal Holloway, University of London; Mara Ferreri, IGOP; Gretchen Wren Purser, Syracuse University; Simon Springer, University of Victoria; Alex Vasudevan

**5148. Sustainable approaches to urban weather and climate (I) (Sponsored by Climate Specialty Group)**

Room: *Beacon D, Sheraton, Third Floor* (Paper Session)

ORGANIZER(S): Austin Bush, Auburn University; Winston T. Chow, National University of Singapore; Chandana Mitra, Auburn University

CHAIR(S): Anthony J. Brazel, Arizona State University

- 8:00 Neil Debbage\*, University of Georgia, *The Influence of Urban Development Patterns on Streamflow Characteristics.*

- 8:20 Austin Bush\*, Auburn University; Chandana Mitra, Ph.D., Auburn University, *Assessing Rainwater Harvesting Potential for Urban Multi-family Housing Developments in Auburn, AL using UAS.*

- 8:40 Ariane Middel\*, Arizona State University; Chuyuan Wang, Arizona State University; Shai Kaplan, Ben-Gurion University of the Negev; Jonas Lukaszczuk, University of Kaiserslautern; Soe Myint, Arizona State University; Anthony Brazel, Arizona State University, *Local Climate Zones in Arid Cities - An Assessment for Phoenix, AZ and Las Vegas, NV, USA.*

- 9:00 William Goldman\*, University of Delaware; Paul Jackson, University of Delaware; Dana Veron, University of Delaware, *Social Dimensions of Urban Heat Island Mitigation Using Community Gardens.*

- 9:20 Anthony J. Brazel\*, Arizona State University; Ariane Middel, Arizona State University, *MICROCLIMATE 1930 TO NOW IN TEMPE, AZ.*

**5149. Geography and Digital Film - What next? (Sponsored by Geography Education Specialty Group, Cultural Geography Specialty Group, Communication Geography Specialty Group)**

Room: *Beacon E, Sheraton, Third Floor* (Paper Session)

ORGANIZER(S): Joseph Palis, University of the Philippines-Diliman; Jessica Jacobs, Queen Mary University of London

CHAIR(S): Jessica Jacobs, Queen Mary University of London

- 8:00 Brett Sylvester Matulis\*, University of Leicester, *Digital Film and Nature Writing for Environmental Justice.*

- 8:20 Jessica Jacobs, Dr\*, Queen Mary University of London, *Digital GeoCinema.*

- 8:40 Amber Murrey\*, Clark University, *Narrating Slow Violence & Slow Dissent: Invisibility, Visibility, and Film along*



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*the Chad-Cameroon Oil Pipeline.*

**9:00** Ian Mauro\*, University of Winnipeg, *Canada's Climate Story: Participatory Film, Geovisualization and the Future of Mobilizing Knowledge into Action.*

**5150. Local Anchors in Trans-local Knowledge Communities (Sponsored by Economic Geography Specialty Group)**

*Room:* Beacon F, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Suntte Schmidt, Institute for Research on Society and Space; Taylor Brydges, Uppsala University  
CHAIR(S): Suntte Schmidt, Institute for Research on Society and Space

**8:00** Gernot Grabher, HafenCity Universität Hamburg; Alice Melchior\*, HafenCity Universität Hamburg; Benjamin Schiemer, JKU Linz; Elke Schüßler, JKU Linz; Jörg Sydow, FU Berlin, *The Messy Socio-spatial Trajectories of Knowledge - Tracing Creative Projects in Pharma and Music Across Scales and Media.*

**8:20** Alison L. Bain, PhD\*, York University; Friederike Landau, Technical University of Berlin, *Interscalar Intermediation: The Case of ZK/U in Berlin as a Local Cultural Anchor.*

**8:40** Taylor Brydges\*, Uppsala University, *Going out of style? The cancellation of Toronto Fashion Week and the evolution of trans-local anchors in the digital age..*

**9:00** Suntte Schmidt\*, Institute for Research on Society and Space, *Places for Resilience. Anchoring multiple forms of resilience in Open Creative Labs.*

**5153. Spatiotemporal Symposium: Spatiotemporal visualization I: concepts, tools, platforms and related topics (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group, Spatial Analysis and Modeling Specialty Group)**

*Room:* Dalton A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Jing Li, University of Denver; Xining Yang, Eastern Michigan University

CHAIR(S): Xining Yang, Eastern Michigan University  
**8:00** Ryan Brideau, MSc student, University of New Brunswick; Monica Wachowicz, Associate Professor\*, University of New Brunswick; David Coleman, Professor, University of New Brunswick, *Designing event-time based sliding windows for visualizing unknown volume of social media data.*

**8:20** Adrian Corneliu Prelipcean\*, Royal Institute of Technology; Yusak O. Susilo, KTH, Royal Institute of Technology; Gyöző Gidofálvi, KTH, Royal Institute of Technology, *Detecting and visualizing the stability of activity chains with longest common purpose subsequences.*

**8:40** Xining Yang\*, Eastern Michigan University, *Visual Analysis of Public Metro Data.*

**9:00** Fangcao Xu\*, Penn State University, *Spatio-temporal visual movement pattern discovery in 4D urban contents.*

**5155. Caribbean in/securities and creativity: negotiating between security and insecurity in and through creative practice (Sponsored by Latin America Specialty Group, Development Geographies Specialty Group)**

*Room:* Hampton A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Beverley Mullings, Queen's University; Patricia Noxolo, School of Geography, Earth and Environmental Sciences

CHAIR(S): D. Alissa Trotz

**8:00** Adelle Thomas\*, College of The Bahamas, *Food Insecurity and Agro-Tourism: Creative Approaches in The Bahamas.*

**8:17** Kevon Rhiney, Ph.D\*, Rutgers University, *Assessing the Potential Impacts of Projected Climate-induced Stresses on the Cocoa and Tomato Subsectors in Jamaica.*

**8:34** Yasa N. Belmar\*, University of Queensland, *"I'm just doing all that to survive. We all do it really!" - The*

*role of emergent cosmopolitan professionals in the coproduction of water in/security and meta-modern statehood in St. Lucia..*

**8:51** Anna Versluis\*, Gustavus Adolphus College, *The Counter-Plantation: Haiti's On-going Struggle for (Food) Sovereignty.*

**9:08** aeisha Noel\*, Queen's University, *A place for play.*  
Discussant(s): D. Alissa Trotz

**5156. Exploring the India and Indian urban landscapes (Sponsored by Regional Development and Planning Specialty Group, Asian Geography Specialty Group)**

*Room:* Hampton B, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Rajrani Kalra, California State University - San Bernardino; Sudhir K. Thakur, California State University Sacramento

CHAIR(S): Jayasree Borah, GNRC Hospital

**8:00** Rajinder S. Jutla\*, Missouri State University, *Chandigarh, the Modernistic City: Its Success & Failure.*

**8:20** John Ponstingel\*, Binghamton University, *Filipino and Asian Indian Experiences in Jersey City, New Jersey: The Role of Institutions.*

**8:40** Sudeshna Ghosh, PhD\*, Indiana University Of Pennsylvania; Haimanti Banerji, PhD, Indian Institute of Technology, Kharagpur; Subrata Chattopadhyay, PhD, Indian Institute of Technology, Kharagpur; Brian Okey, PhD, Indiana University Of Pennsylvania, *Student Field Studies in India II: Chinatown, Kolkata..*

**9:00** Jayasree Borah\*, GNRC Hospital, *Pattern of Urbanization in North-east India.*

**5157. Alternative green practices 1 (Sponsored by Energy and Environment Specialty Group, Economic Geography Specialty Group)**

*Room:* Gardner A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Julia Affolderbach, University of Hull; Christian Schulz, University of Luxembourg; Rob Krueger, Worcester Polytechnic Institute

CHAIR(S): Christian Schulz, University of Luxembourg

**8:00** Thomas Smith\*, University of St Andrews, *Making a More-Than-Human Economy: Construction Practices, Experiment and Creative Spaces of the Maker Movement.*

**8:20** Greig Tor Guthey, PhD\*, Department of Liberal Studies & Geography Program, *Farming the Campus: Five years of urban agriculture on a commuter campus.*

**8:40** Trina Hamilton\*, University At Buffalo (SUNY), *Ethics on the move: How do ethical markets evolve and how much can they change?.*

**9:00** Diana Watts\*, Trinity University; Anna Demeo, Ph.D. Director, Community Energy Center, College of the Atlantic, *Social Networks, Social Learning and Adaptive Management Preliminary Evidence and a Research Agenda.*

**5158. Theorizing Compliance in 21st Century Cities**

*Room:* Gardner B, Sheraton, Third Floor (Panel Session)

ORGANIZER(S): Alessandra Radicati, London School of Economics

CHAIR(S): Austin Zeiderman, London School of Economics

Panelists: Alessandra Radicati, London School of Economics; Austin Zeiderman, London School of Economics; D. Asher Ghertner, Rutgers University; Harry Pettit, London School of Economics; Caroline Melly; Samuel Shearer, Duke University

**5160. Economic geographies of urban revitalisation - destruction and creation (1)**

*Room:* Fairfax B, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Bong Jeon, University College London; Stefania Fiorentino, University College London

CHAIR(S): Bong Jeon, University College London



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**8:00** Cheng-Yi Lin\*, National Taipei University of Education, *The creative micro-clusters and localized resilient capacity in Taipei.*

**8:20** Ingmar Pastak\*, University of Tartu; Eneli Kindsiko, University of Tartu; Tiit Tammaru, University of Tartu, *Entrepreneurial gentrification of deprived neighbourhoods in Tallinn, Estonia.*

**8:40** Kat Braybrooke, Doctoral Researcher\*, University of Sussex Digital Humanities Lab, *Hacking the museum together? Spatially-oriented user experiences and networks at sites for digital making within cultural institutions in London.*

**9:00** Stefania Fiorentino\*, University College London, *Makers, Entrepreneurialism and Urban Reinassance.*

Discussant(s): Robert Hassink, Dept. of Geography, University of Kiel

**5161. (Re)Conceptualizing Physical Geography**

Room: Jefferson, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Péter Bagoly-Simó, Humboldt-Universität zu Berlin; Anke Uhlenwinkel, Alpen-Adria-Universität

CHAIR(S): Péter Bagoly-Simó, Humboldt-Universität zu Berlin

**8:00** Anke Uhlenwinkel\*, Alpen-Adria-Universität, *Learning to understand the conceptualization of the disciplinary knowledge of physical geography in school geography.*

**8:20** Kirsten Von Elverfeldt\*, Alpen-Adria-Universität Klagenfurt, *Physical Geography is pivotal. Powerful Physical Geographical school education in the Anthropocene.*

**8:40** Péter Bagoly-Simó\*, Humboldt-Universität zu Berlin, *Shapes of Physical Geography.*

Introducer: Péter Bagoly-Simó

Discussant(s): Anke Uhlenwinkel, Alpen-Adria-Universität

**5162. Urban Inequalities**

Room: Kent, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Nicolas Velasquez, University of Miami

**8:00** Crelis Rammelt, Dr\*, Utrecht University, *The material roots of inequality: a system dynamics approach.*

**8:20** Lucia Kafui Hussey\*, Western University; Godwin Arku, Prof., Western University, *Housing Quality in Ghana: An Urban Advantage or Urban Penalty?.*

**8:40** Javier Ruiz-Tagle\*, Instituto de Estudios Urbanos y Territoriales; Grisel Labbe, Instituto de Estudios Urbanos y Territoriales; Martin Alvarez, Instituto de Estudios Urbanos y Territoriales; Martin Montes, Instituto de Estudios Urbanos y Territoriales; Matias Aninat, Instituto de Estudios Urbanos y Territoriales, *Urban marginality and institutional effects: An alternative perspective to the 'neighborhood effects' thesis from the study of three neighborhoods in Santiago de Chile.*

**9:00** Muriel Marseille\*, University of Wisconsin-Milwaukee, *On Poverty and Sustainability.*

**9:20** Nicolas G Velasquez\*, University of Miami, *Projecting the Central State's Power into the Peripheries: Colombia 1985-2002.*

**5164. Innovation and stagnation: Fostering methodological insights in the movement, circulation, and transformation of things and materials I**

Room: Boylston, Marriott, First Floor (Paper Session)

ORGANIZER(S): Joshua Cousins, Dartmouth College; Eric Lovell, University of Colorado - Boulder

CHAIR(S): Joshua Cousins, Dartmouth College

**8:00** Abigail N Martin\*, University of California, Berkeley, *The politics of expertise and evidence in low-carbon value creation.*

**8:20** Marissa Matsler\*, Portland State University, *The 'cognitive dissonance' of mixed methods for critical infrastructure studies: symptoms and treatments.*

**8:40** Sara Fernandez\*, IRSTEA, *Waterscapes as cyborgs. Governing the Guadalquivir marismas through metrics.*

**9:00** Gül Tuçaltan\*, PhD Candidate, Faculty of Geosciences, Utrecht University, *Reclaiming the Transformative Capacities for Waste Governance: Future Prospects for Research.*

**5165. Political and Cultural Geography**

Room: Tremont, Marriott, First Floor (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Andrea Christina Wirsching, Community and Regional Planning

**8:00** Luis Sanchez-Ayala\*, Universidad de los Andes, *Geography as a tool in territorial conflicts.*

**8:20** Zi-Xin Lin\*, Fujian University of Technology, *Rural landlords marching to cities: Examining the social prerequisite of the late industrialization in Taiwan, 1945-1953.*

**8:40** Shruti Syal\*, University of Illinois - Urbana Champaign, *THE "NUISANCE" OF SLUMS: A descriptive study on what constitutes "nuisance" and its causes.*

**9:00** Emily Cheng\*, Montclair State University, *Chicana/o Nationalist Politics, Environmentalism, and The Vietnam War in El Grito del Norte.*

**9:20** Andrea Christina Wirsching\*, Community and Regional Planning, *Geographies of Fracking in South Texas: Land Rights, Power and Agency in Colonias.*

**5167. Sustainable Urbanization: Challenges and Opportunities (1) (Sponsored by Geographic Information Science and Systems Specialty Group, Urban Geography Specialty Group, Energy and Environment Specialty Group)**

Room: Columbus 2, Marriott, First Floor (Paper Session)

ORGANIZER(S): Yuyu Zhou, Iowa State University; Wenze Yue, Zhejiang University; Bailang Yu, East China Normal University

CHAIR(S): Yuyu Zhou, Iowa State University

**8:00** Lina Liu\*, Lanzhou University, *Factor Analysis on the Regional Inequality in Urban and Rural China's Household CO2 Emissions.*

**8:20** Jing Guo\*, Beijing Normal University; Qiang Li, Beijing Normal University, *Equity of emergency shelter considering different populations based on 2SFCA.*

**8:40** Wenze Yue\*, Zhejiang University; Xue Liu, Zhejiang University; Yang Chen, Zhejiang University; Yong Liu, Southwest University, *Urban Livable Index Developing and Citizen Exposure Analysis: A Case of Hangzhou.*

**9:00** Shunqiang Deng\*, ECNU; Yixiu Huang, East China Normal University; Bailang Yu, East China Normal University; Xizhi Zhao, East China Normal University; Jianping Wu, East China Normal University; Chenshu Yang, East China Normal University; Zuoqi Chen, East China Normal University; Kaifang Shi, East China Normal University, *Spatialization of Population Using Nighttime Light Remote Sensing Images and Social Sensing Data.*

**9:20** Ambe J. Njoh, Ph.D.\*, University of South Florida, *Socio-economic development implications of urbanization in Africa.*

**5168. WWW: Women Workers Worldwide - Within and outside the Shopfloor (Sponsored by AAG Careers and Professional Development Theme)**

Room: St. Botolph, Marriott, Second Floor (Paper Session)

ORGANIZER(S): Madhumita Dutta, Pennsylvania State University; Kanchana N. Ruwanpura, University of Edinburgh

CHAIR(S): Kanchana N. Ruwanpura, University of Edinburgh

**8:00** Taneesha Mohan\*, London School of Economics, *Generating Unfreedom, Creating Tied Labour: Mgnrega And Its Impact On Female Labour In*

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**8:20** Caitrin Lynch, PhD\*, Olin College, *Brenda was Fired, Sammy's Dog Died: Reflections on a Life of Work.*

**8:40** Madhumita Dutta\*, Pennsylvania State University, *Telling life stories: Researching everyday lived experiences of work - life of women workers in Tamil Nadu, India.*

**9:00** Negar Elodie Behzadi\*, University of Oxford, *Gendered experiences of child labour in illegal coal mines in post-Soviet Tajikistan.*

Discussant(s): Kanchana N. Ruwanpura, University of Edinburgh

**5169. Sexual(ities that) progress? (Sponsored by Geographic Perspectives on Women Specialty Group, Sexuality and Space Specialty Group)**

*Room:* Regis, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Kath Browne, University of Brighton; Jason K. Lim, University of Brighton; Nick McGlynn, University of Brighton

CHAIR(S): Jason K. Lim, University of Brighton

**8:00** ena ganguly\*, University of Texas Austin, *Prostitutes or Laborers? The Battle for Recognition Amongst India's Sex Workers.*

**8:20** Gilly Hartal\*, McGill University, *The progressive orient: Gay tourism to Tel Aviv and Israeli ethnicities.*

**8:40** Jamie Halliwell\*, Manchester Metropolitan University, UK, *The production of gender and sexuality identities within Eurovision fan spaces: Online and offline perspectives.*

**9:00** Andrew McCartan\*, Brock University, *Glasgow's Queer Battleground: The Contest for Progress and Pride in Glasgow, Scotland.*

**9:20** Lynda Johnston\*, University of Waikato; Gordon Waitt, University of Wollongong, *Proud to play and progress? The queer politics of sport and cities.*

**5170. Economic Development in China (Sponsored by China Specialty Group)**

*Room:* Northeastern, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Xiaobo Su, University of Oregon

CHAIR(S): Yulong Chen, East China Normal University

**8:00** Jieyuan Hua\*, East China normal university; Bindong Sun, East China Normal University, *Spatial Evolution and Economic Performance of Mega-city regions in China: From Morphologically Mono-and Polycentric Perspective.*

**8:20** Wei Sun\*, Institute of Geographic Sciences and Natural Resources Research, CAS, *Regional Inequality in Underdeveloped Areas: A Case Study of Guizhou Province in China.*

**8:40** Jialing Zou\*, Institute of Geographical Sciences and Natural Resources Research, Chinese Academy of Sciences; Weidong Liu, Institute of Geographical Sciences and Natural Resources Research Chinese Academy of Sciences, *Methods and Applications of Estimating China's Inter-provincial Catering and Accommodation Services Trade.*

**9:00** Yulong Chen\*, *Renewable energy consumption, foreign trade, carbon emissions in China.*

**5171. Beyond the 'end of Cheap Nature': The production of waste-based commodity frontiers, Part I (Sponsored by Cultural and Political Ecology Specialty Group)**

*Room:* Brandeis, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Seth Schindler, University of Sheffield; Federico Demaria, Universitat Autònoma de Barcelona

CHAIR(S): Seth Schindler, University of Sheffield

**8:00** Jordan P Howell\*, Rowan University, *Ecological Identity, Governance, and Solid Waste Management: The Case of Honolulu's HPOWER Waste-to-Energy Facility.*

**8:20** Melanie Samson\*, University of the Witwatersrand, *Contesting integration: Reclaimers and the battle over the 'waste-based commodity frontier' in the city of Gold.*

**8:40** Kishorekumar Suryaprakash\*, University of Massachusetts - Amherst, *Theorizing the Role of Informal Waste Recovery Sector in Urban Development: The Case of Bholakpur Scrap Market in Hyderabad, India.*

Introducer: Seth Schindler

Discussant(s): Jason W. Moore

**5172. The politics of contemporary consumption: rethinking "consumer subjectivity" (Sponsored by Cultural and Political Ecology Specialty Group, Cultural Geography Specialty Group)**

*Room:* MIT, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Jacob Miller, University of Arizona; Suncana Laketa, University of Zurich

CHAIR(S): Suncana Laketa, University of Zurich

**8:00** Michael Hawkins\*, UNC-Chapel Hill, *Love, Bars*

*and Nostalgia: An Analysis of American Military Retirees and Transnational Marriages in Subic Bay, Philippines.*

**8:20** Rachel Thayer Boothby, PhD Candidate\*, University of Wisconsin, Madison, *The material afterlife of the pig and modern American consumption.*

**8:40** Daniel Bos\*, University of Oxford, *Marketing Militainment: spaces of spectacular consumption.*

**9:00** Eric Sarmiento\*, Texas State University - San Marcos, *Subjectivity, transversality, and territory in an alternative food network.*

**9:20** Jacob Miller\*, University of Arizona, *New bio-political spaces of affect and emotion at Chiloé Island, Chile.*

**5173. Chinese Urban Growth: New Characteristics and Trends (Sponsored by China Specialty Group, Urban Geography Specialty Group)**

*Room:* Boston University, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Max Lu, Kansas State University

CHAIR(S): Max Lu, Kansas State University

**8:00** Liangliang Zhang\*, East China Normal University; Bindong Sun, East China Normal University, *Are mega-cities wrecking urban hierarchies? -A cross-national study on the spatial evolution of city size distribution.*

**8:20** SHENGNAN TONG\*, Peking University, *Metropolitan Development Based on Urban Hierarchy Structure System: The Case of Guangdong Province.*

**8:40** Max Lu\*, Kansas State University, *The Scaling Relationship between urban population and area in China.*

**9:00** Jianhong Fan\*, School of architecture and urban planning, Guangdong University of Technology, *Research on Interaction Mechanism between Urban Sprawl and Rural Landscape Eco-security: a Case Study of Guangzhou City.*

**9:20** Zhu Wang\*, Zhejiang University; Jiayan Fu, Zhejiang University; Zhenlan Qian, Zhejiang University; Ling Wang, The Architectural Design & Research Institute of Zhejiang University Co. Ltd; Yuan Zheng, Zhejiang University, *Chinese Rural Construction - Theoretical Thinking and Planning Practice.*

**5174. Racial economies and the everyday practices of low-wage worker movements I (Sponsored by Geographic Perspectives on Women Specialty Group, Economic Geography Specialty Group)**

*Room:* Simmons, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Yui Hashimoto, University of Wisconsin - Milwaukee; Caroline Keegan, University of Georgia

CHAIR(S): Caroline Keegan, University of Georgia

**8:00** Yui Hashimoto\*, University of Wisconsin - Milwaukee, *"Vibrant and cheap": Discourses of economic development, poverty, and low-wage work in Milwaukee.*

**8:20** Chun Wai Chau\*, Cultural Studies Graduate Group,

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University of California, Davis, *Temporal Crossings: Racial Capitalism's Distributed Reproduction Across the Calxico West Port of Entry*.

**8:40** Caroline Keegan\*, University of Georgia, *Racial Economies in the "New New Orleans"*.

**9:00** Yi Wang\*, University of Toronto, *Struggling on Black Friday: OUR Walmart as (counter-)hegemonic articulation*.

Discussant(s): David Wilson, University Of Illinois

**5175. Sense as a field's experience in geography of arts: methods and tools, positionality and teaching (Sponsored by Cultural Geography Specialty Group)**

*Room:* Suffolk, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Antonin Margier; Marie-kenza Bouhaddou, Nanterre University

CHAIR(S): Antonin Margier

**8:00** Marie-kenza Bouhaddou\*, Nanterre University, *Creative research, an in-between committed positionality*.

**8:13** Gwen MacGregor\*, U of T, *The critique of knowledge production through contemporary art processes of making..*

**8:26** Léa Donguy\*, Université d'Artois, *Discontinuités EA-2468, "Doing with" the artists: an insider in the field*.

**8:39** Kullmann Clotilde\*, Université Paris 1 Panthéon Sorbonne, *The sensitive experimentations to interpret the urban making and the researcher positionality : the case of the exploration of Paris Rive Gauche by ArtiCités*.

**8:52** Severin Guillard\*, Université Paris Est, *Sensing of the cities, experiencing of the scenes: approaching the circulation of a music sound between French and American rap music*.

**9:05** Karen E. Till\*, Maynooth University, *ANU's 1916-2016 Triptych: Emplacing Ireland through the Female Body*.

**9:18** Antonin Margier\*, University of Lille, *Sensory experience of public art as a means of regulation ?*.

Discussant(s): Harriet Hawkins, Royal Holloway, University of London

**5176. Geospatial Health Research Symposium: Geographies of Ageing (Sponsored by Spatial Analysis and Modeling Specialty Group, Health and Medical Geography Specialty Group)**

*Room:* Wellesley, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Eric M. Delmelle, University of North Carolina at Charlotte; Michael J. Widener, University of Toronto; Mei-Po Kwan, University of Illinois at Urbana-Champaign

CHAIR(S): Wei Xu, University of Wisconsin Milwaukee

**8:00** Wei Xu\*, University of Wisconsin Milwaukee, *Detecting spatiotemporal clusters of dementia mortality in the United States*.

**8:20** Anastassios Dardas\*, McMaster University; Allison Williams, Professor, McMaster University, *Multi-Quantitative Analysis of Caregiver-Employees' Travel Behavior*.

**8:40** Mahfuza Rahman\*, TISS, *Social Marginalization of the Elderly: Myth or Reality*.

**9:00** Bernhard Mueller\*, Leibniz Institute of Ecological Urban and Regional Development, *From ageing to super-ageing - what can we learn from Germany and Japan?*.

**9:20** Markus M. Bugge\*, NIFU, *The Geographies in Upscaling of Innovation: The Case of Active Ageing*.

**5177. Applications of High-Resolution Spatial Data in Physical Geography and Biogeography I - Rivers (Sponsored by Remote Sensing Specialty Group, Biogeography Specialty Group, Geomorphology Specialty Group)**

*Room:* Harvard, Marriott, Third Floor (Paper Session)

ORGANIZER(S): James T. Dietrich, Dartmouth College

CHAIR(S): James T. Dietrich, Dartmouth College

**8:00** Alex Rittle\*, UMBC- Geography & Environmental

Systems; Andrew Miller, UMBC- Geography & Environmental Systems; Matthew Baker, UMBC- Geography & Environmental Systems, *A UAV-SfM Approach for Extracting Channel Bathymetry and Fluvial Features*.

**8:20** Suzanne Walther\*, University of San Diego, *Mapping restoration in Tecolote Canyon, California*.

**8:40** Jessica Morgan, Ph.D.\*, University of Rhode Island; Yeqiao Wang, Ph.D., University of Rhode Island; Naomi Detenbeck, Ph.D., U.S. EPA Atlantic Ecology Division, *The Effects of Spatial Resolution on Impervious Cover Classifications in Watersheds and Riparian Zones in Vermont*.

**9:00** Chen-Ling J. Hung\*, University of South Carolina; L. Allan James, University of South Carolina; Michael E. Hodgson, University of South Carolina, *Automatic Building Extraction Using LiDAR Point-Cloud Data for Flood Hydrology*.

**9:20** Anthony M. Filippi, Ph.D.\*, Texas A&M University; Inci Güneralp, Ph.D., Texas A&M University; Gernot Paulus, Ph.D., Carinthia University of Applied Sciences, Austria; Cesar R. Castillo, Texas A&M University; Andong Ma, Texas A&M University; Melanie Erlacher, Carinthia University of Applied Sciences; Karl-Heinrich Anders, Carinthia University of Applied Sciences, *Pixel- and object-based classification of unmanned aircraft systems (UAS)-based narrow-band images for riparian vegetation mapping*.

**5179. Methods for study of land systems as coupled human-environment systems (Sponsored by Cultural and Political Ecology Specialty Group, Remote Sensing Specialty Group, Human Dimensions of Global Change Specialty Group)**

*Room:* Arlington, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Richard J. Aspinall

CHAIR(S): Matthew Adair, The Ohio State University

**8:00** Cara Steger\*, Colorado State University, *Integrating local and scientific perceptions of change to understand the past and prepare for the future*.

**8:20** Bradley B. Walters, Dr.\*, Mount Allison University, *Explaining Rural Land Use and Forest Change Using Abductive Causal Eventism (ACE)*.

**8:40** Michael Alonzo\*, American University; Jamon Van Den Hoek, Oregon State University; Carl LeVan, American University; Nabil Ahmed, London Metropolitan University, *Cloud-resilient Remote Sensing Time Series Analysis of Land Cover Change in Tropical, Socio-environmental Systems*.

**9:00** Timothy Kennedy\*, University of Wisconsin - Stevens Point; Howard Veregin, Wisconsin State Cartographer; Mitchell Johnson, Wisconsin State Cartographer's Office, *Parcel-level population estimates using dasymetric modeling: A case study of rural Wisconsin*.

**9:20** Matthew Adair\*, The Ohio State University, *Residential Land Use Change and a Shifting Paradigm of Suburbanization in a Historic Urban Neighborhood*.

**5180. Challenges in understanding the distribution of populations in space (Sponsored by Population Specialty Group)**

*Room:* Berkeley, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Christopher S. Fowler, Pennsylvania State University

CHAIR(S): Nicholas Nagle, University of Tennessee; Oak Ridge National Laboratory

**8:00** Lee Hachadoorian\*, Temple University, *Scale and Spatiality in Measures of Segregation*.

**8:20** Mark Janko\*, UNC Chapel Hill, *Extending the F-model of sub-population structure in Landscape Genetics through a spatial prior*.

**8:40** Diane Snediker\*, U.S. Bureau Of the Census, *Visualizing Spatial Interpolation of Socioeconomic Conditions*.



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**9:00** Jessica J. Moehl\*, Oak Ridge National Laboratory; Nathan Trombley, Oak Ridge National Laboratory; Eric Weber, Oak Ridge National Laboratory, *Selecting Robust Source Zones for Error Mitigation in Dasymeric Modeling of Worker Populations.*

**9:20** Nicholas Nagle\*, University of Tennessee, Geography, *Creating Estimated Census Tracts for Census Public Use Microdata.*

**5181. Food, Retail, Land Use, and Environment Interactive Short Papers (Sponsored by Geographies of Food and Agriculture Specialty Group)**

**Room:** Clarendon, Marriott, Third Floor (Interactive Short Paper Session)

ORGANIZER(S): Daniel R. Block, Chicago State University  
CHAIR(S): Daniel R. Block, Chicago State University

**8:00** Jennifer M. Molden\*, Southern Connecticut State University, *Fruit Salad in the Wilderness of the North: A Food Systems Sustainability Analysis of Camp Denali, Denali National Park, AK.*

**8:09** Antonio Roman-Alcalá\*, *Working Across the Science, Movement, and Practice of Agroecology.*

**8:18** Rajiv Paudel\*, Michigan State University, *Modeling Household Vulnerability to Food Insecurity in Dryland West Africa.*

**8:27** Robert W. Smith\*, Sonoma State University, *Human Rights and the Geographies of Environmental Impact Assessment: Public Participation in Land Use Development.*

**8:36** Reuben Allen\*, Ball State University, *Commercial White Flight: Changing Consumer Landscapes in Indianapolis, IN.*

**8:45** Ryan Z Good\*, University of Florida, *Entrepreneurship, empowerment, and urban change in Tanzania's freshwater fisheries.*

**8:54** Rafael Vicente-Salar\*, Universitat Autònoma de Barcelona; Montserrat Pallares-Barbera, Universitat Autònoma de Barcelona; Ana Vera, Universitat Autònoma de Barcelona, *The economic transformation of inner urban spaces. The Barcelona's Trafalgar Garment District.*

**9:03** Anqi Wang\*, The Hong Kong Polytechnic University; Edwin Chan, The Hong Kong Polytechnic University; Stanley Yeung, The Hong Kong Polytechnic University, *A land use planning model for green space allocation considering the amenity value.*

**9:12** Yi Jin\*, London School of Economics, *Towards Residential Justice or Injustice: Socialist legacy in the regeneration of urban shanty town.*

**5183. Cartographic reconstruction of environmental histories (Sponsored by Geographic Information Science and Systems Specialty Group, Historical Geography Specialty Group, Cartography Specialty Group)**

**Room:** Exeter, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Martin C. Lukas, University of Bremen, Sustainability Research Center (artec)

CHAIR(S): Martin C. Lukas, University of Bremen, Sustainability Research Center (artec)

Introducer: Martin C. Lukas

**8:20** Thomas Muller\*, School of Geographical and Earth Sciences, University of Glasgow; David Forrest, Dr., School of Geographical and Earth Sciences, University of Glasgow; Lauren Parry, Dr., School of Interdisciplinary Studies, University of Glasgow; Paul Bishop, Prof., School of Geographical and Earth Sciences, University of Glasgow, *Using 18th and 19th century historical estate maps to reconstruct woodland cover changes in Scotland.*

**8:40** Valérie Mahaut, Prof.\*, Université de Montréal, *Cartography of the island of Montreal's former watercourses, thalwegs, and watersheds: pitfalls, limits, and opportunities.*

**9:00** Xiaobin Jin\*, Nanjing university, *A spatially explicit reconstruction of cropland distribution in China over 1661-1952.*

**9:20** Javier Arce-Nazario\*, UPR Cayey, *Historical maps and imagery: improving classification for land-use change analysis and energizing cartographic communication.*

**5184. SESSION ONE OF "STANDBY: Infrastructures between Mobility and Stillness" (Sponsored by Transportation Geography Specialty Group)**

**Room:** Fairfield, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Laura Kemmer, University Hamburg; Annika Kuehn, University of Hamburg, Germany

CHAIR(S): Annika Kuehn, University of Hamburg, Germany

Introducer: Laura Kemmer

Introducer: Annika Kuehn

**8:20** AbdouMaliq Simone\*, Max Planck Institute for the Study of Religious and Ethnic Diversity, *All Over the Place: The arts of standing still.*

**8:40** Laura Kemmer\*, University Hamburg, *'Ficou na Promessa' - Infrastructural Promises on Standby.*

**9:00** Joe Deville\*, Lancaster University, *The Interminable Present: Preparing for Non-Disaster.*

**9:20** Linda Lapina\*, Roskilde University, *Waiting, Becoming and Other Spacetimes: A Billboard's Agencies and Affective Circulations.*

**5185. Society for Woman Geographers Fellows 1 (Sponsored by Geographic Perspectives on Women Specialty Group)**

**Room:** Salon H, Marriott, Fourth Floor (Panel Session)

ORGANIZER(S): Ellen R. Hansen, Emporia State University

CHAIR(S): Ellen R. Hansen, Emporia State University

Panelists: Pavithra Vasudevan, University of North Carolina, Chapel Hill; Ilaria Giglioli, University of California-Berkeley; Ashley Fent, UCLA; Brittany Cook Barrineau, University of Kentucky

**5186. Social and Spatial Transformation in Chinese villages (Sponsored by China Specialty Group)**

**Room:** Salon I, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Xiaobo Su, University of Oregon

CHAIR(S): Xueji Wei

**8:00** Pu Hao\*, Hong Kong Baptist University, *Migration and Mobility of China's Floating Population: Looking through the Prism of Landholding.*

**8:20** Yu Ting Xu\*, Nanjing University, Anhui Normal University; Huang xianjing, Nanjing university, *Rural household incomes and rural land right reform in China.*

**8:40** Xiaoyun Li\*, University of Chinese Academy of Sciences; Yu Yang; Yi, Liu; Hui Liu, *Governmental Regulation and Farmers' Adaptive Responses Against Drought: An Empirical Study of North China Plain.*

**9:00** Xiaoxuan Chen\*, School of Geography and Planning, Sun Yat-sen University, Guangzhou, 510275, P. R. China; Geng Lin, School of Geography and Planning, Sun Yat-sen University, Guangzhou, 510275, P. R. China, *Reconstructing the Community Order in the Context of Modernity: Evidence from a Traditional Festival in China.*

**9:20** Xueji Wei\*, The University of Hong Kong; Roger C. K. Chan, The University of Hong Kong, *The Making of Rural Community and the Changing Grassroots Governance in Peri-urban China.*

**5187. Spatial Data and Analytics from Open Source: Challenges, Tools and Trends- I (Sponsored by Geographic Information Science and Systems Specialty Group, Spatial Analysis and Modeling Specialty Group, Association of American Geographers)**

**Room:** Salon J, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Nagendra Singh, Oak Ridge National



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Laboratory; Matthew Whitehead, Oak Ridge National Laboratory

CHAIR(S): Matthew Whitehead, Oak Ridge National Laboratory

**8:00** Hettie\*, George Washington University; Andrii Berdnyk, George Washington University; Nuala Cowen, George Washington University, *"Yo Me Preparo" and Open Source Mapping in Mixco, Guatemala*.

**8:20** Alexander Scott Burke\*, Oak Ridge National Lab; Emily Boling, Oak Ridge National Lab; Nagendra Singh, Oak Ridge National Lab, *Assessing the Availability and Accessibility of Subsidized Child Care Services in the United States*.

**8:40** Shanqi Zhang\*, University of Waterloo; Rob Feick, University of Waterloo, *Citizen reporting through geosocial media: opportunities and challenges*.

**9:00** Jingchao Yang\*, George Mason University, *SciDB Data Container Performance Assesses*.

**9:20** Matthew C Whitehead\*, Oak Ridge National Laboratory, *Data fusion techniques to rapidly produce on entity spatial datasets from open data*.

**5188. Vegetation Dynamics I - Ecotone (Sponsored by Biogeography Specialty Group, Mountain Geography Specialty Group)**

Room: Salon K, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Parveen Kumar Chhetri, Texas A&M University; Rosemary Dwight, Texas A&M University

CHAIR(S): Parveen Kumar Chhetri, Texas A&M University

**8:00** Jeremy S. Johnson\*, Texas A&M University; Keith D. Gaddis, Texas A&M University; David M. Carins, Texas A&M University; Konstantin V. Krutovsky, University of Göttingen, *Does long-distance seed dispersal maintain alpine treeline?*.

**8:20** Katherine Dearborn\*, Queen's University; Ryan Danby, Queen's University, *Landscape-scale variation in the spatial pattern of trees across forest-tundra ecotones in southwest Yukon, Canada*.

**8:40** Kenneth R. Young\*, University of Texas at Austin, *Change in a Tropical Treeline Forest*.

**9:00** Grant Elliott\*, University of Missouri, *Mountain Treelines as a Biomonitor of Climate Change in the Anthropocene*.

**9:20** Parveen Kumar Chhetri\*, Texas A&M University; David Cairns, Texas A&M University, *Herbivores and microsites are structuring treeline of Dhorpatan Hunting Reserve, western Nepal*.

**5190. Understanding challenges and opportunities for future food and nutrition security - I (Sponsored by Cultural and Political Ecology Specialty Group, Rural Geography Specialty Group, Geographies of Food and Agriculture Specialty Group)**

Room: Yarmouth, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Bridin Carroll, University College Dublin

CHAIR(S): Deirdre O Connor, University College Dublin

**8:00** Molly D. Anderson, Ph.D.\*, Middlebury College, *People's Monitoring of the Right to Food and Nutrition: Shadow Monitoring to Redress Deficiencies*.

**8:15** Nathan Attard\*, SUNY Buffalo State, *Uniting Food Systems Sectors to Address Complex Demands: Geography and its Challenge for Food Policy Councils*.

**8:30** Jessica L. Gilbert, BA\*, SUNY - Buffalo; Sara S Metcalf, PhD, SUNY - Buffalo, *Modeling the Social Dynamics of Community Gardens*.

**8:45** Anna McHugh\*, Colgate University, *Cultivating Access: Examining the Producer's Perspective of Access to Local Foods*.

**9:00** Adelina Mkami\*, University of Connecticut, *Community Food Democracy: The case of Windham Community Food Network*.

**9:15** Angela Chapman\*, Ohio University, *The Neoliberal Economy of Food? Local Food and Food Security Around Athens, Ohio*.

**9:30** Greg Rybarczyk, Ph.D.\*, University of Michigan-Flint,

*Neighborhood environment links to food access: A case study in Flint, Michigan, USA*.

**5191. Geographies of Islamophobia (Sponsored by Cultural Geography Specialty Group)**

Room: Nantucket, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Carmen Teeple Hopkins, York University; Kawtar NAJIB, Newcastle University

CHAIR(S): Carmen Teeple Hopkins, York University

**8:00** Rhonda Itaoui\*, Western Sydney University, *Islamophobia and the spatial mobility of American Muslims in the San Francisco Bay Area*.

**8:20** Kawtar NAJIB\*, Newcastle University, *Spaces and Intersectionality of Islamophobia in the Greater Paris and Greater London regions*.

**8:40** Anna Mansson McGinty\*, University of Wisconsin - Milwaukee, *American Muslim Youth in Milwaukee, USA: Everyday Experiences of Belonging and Discrimination*.

Discussant(s): Peter Hopkins, Newcastle University; Kevin Mark Dunn, Western Sydney University

**5192. Why can't we share our procedural Environmental Justice data? Exploring scholarly habits and structures which reproduce the distributive focus in EJ research. (Sponsored by Qualitative Research Specialty Group)**

Room: Provincetown, Marriott, Fourth Floor (Panel Session)

ORGANIZER(S): Hamil Pearsall, Temple University; Joseph Pierce, FSU

CHAIR(S): Hamil Pearsall, Temple University

Panelists: Nathan McClintock, Portland State University; James J.T. Connolly, Universitat Autònoma de Barcelona; Bethany Cutts, North Carolina State University; Ryan Holifield, University of Wisconsin - Milwaukee; Gordon Walker, Lancaster University; Jayajit Chakraborty, University of Texas - El Paso

**5193. Rescaling Migration, Citizenship, and Rights I: Sanctuary Practices (Sponsored by Political Geography Specialty Group, Urban Geography Specialty Group, Socialist and Critical Geography Specialty Group)**

Room: Orleans, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Harald Bauder, Ryerson University; Jonathan Darling, University of Manchester

CHAIR(S): Jonathan Darling, University of Manchester

**8:00** Harald Bauder\*, Ryerson University, *Sanctuary Practices in International Perspective*.

**8:20** Serin Houston, PhD\*, Mount Holyoke College; Charlotte Morse, Mount Holyoke College, *The Ordinary and Extraordinary: Producing Migrant Inclusion and Exclusion in US Sanctuary Movements*.

**8:40** Jen Jean Bagelman, Dr, Exeter University, *Subterranean Detention & Sanctuary from below*.

**9:00** Idil Atak\*, Ryerson University, *Toronto's Sanctuary City Policy: Exploring Barriers to the Effective Protection of Undocumented Migrants' Rights*.

**9:20** Graham Hudson\*, Ryerson University, *Tipping the Scales: Sanctuary vs. Security in Toronto, Canada*.

**5194. Climate Change and Water Security in Developing Countries (Sponsored by Human Dimensions of Global Change Specialty Group, Climate Specialty Group, Water Resources Specialty Group)**

Room: Hyannis, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Kurt Waldman, Ostrom Workshop in Political Theory; Ellis Adjei Adams, Georgia State University

CHAIR(S): Kurt Waldman, Ostrom Workshop in Political Theory

**8:00** Paul F. McCord\*, Indiana University; Sean Sweeney, Indiana University; Tom Evans, PhD, Indiana University, *Exploring Irrigated Agricultural Production in the Context of Water Distribution Networks*.

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**8:20** Abby Lindsay\*, American University, *Scalar Dimensions of Water Politics: The Role of Institutionalized Relationships in Social Learning.*

**8:40** Kurt B Waldman, PhD\*, Ostrom Workshop in Political Theory and Policy Analysis, Indiana University; Tom P Evans, PhD, Department of Geography, Indiana University; Shahzeen Z Attari, PhD, School of Public and Environmental Affairs, Indiana University, *Perceptions of rainfall variability among smallholder farmers.*

**9:00** Xoco Shinbrot, PhD Candidate\*, Colorado State University, *Analyzing the Impact of Water Management Programs on Adaptive Strategies for Coffee Farmers in Mexico.*

**5195. Spatiotemporal analysis of air pollution and public health (Sponsored by Geographic Information Science and Systems Specialty Group, Spatial Analysis and Modeling Specialty Group, Health and Medical Geography Specialty Group)**

**Room:** Falmouth, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Xiaolu Zhou, Georgia Southern University; Lixin Li; Weitian Tong  
CHAIR(S): Lixin Li

**8:00** Kerry Ard, Assistant Professor, the Ohio State University, *Concentrating Risk? The Geographic Concentration of Health Risk from Industrial Air Toxins.*

**8:20** Michelle F Stuhlmacher, Arizona State University; Sanjay Patnaik, George Washington University, *The Economic Geography of International Cap and Trade Programs: Evidence from the European Union Trading Scheme.*

**8:40** Jianzhong LIU\*, The University of Hong Kong; Jie Li, King's College London; Weifeng Li, The University of Hong Kong, *Temporal Patterns in Fine Particulate Matter Time Series in Beijing: A Calendar View.*

**9:00** Lixin Li, Georgia Southern University; Xiaolu Zhou\*, Georgia Southern University; Weitian Tong, Georgia Southern University; Jason Franklin, Georgia Southern University, *Sensing air quality: spatiotemporal interpolation of air pollution data and visualization.*

**9:20** Weitian Tong\*, Department of Computer Sciences, Georgia Southern University; Xiaolu Zhou, Department of Geology and Geography, Georgia Southern University; Lixin Li, Department of Computer Sciences, Georgia Southern University; Gina Besenyi, Clinical and Digital Health Sciences, Augusta University; Jason Franklin, Department of Computer Sciences, Georgia Southern University; Heather Yates, Clinical and Digital Health Sciences, Augusta University, *Learning Big Data on Spark for the Optimal IDW-based Spatiotemporal Interpolation.*

**5196. Protected areas and beyond: amplification, abandonment, and impacts of conservation interventions (Sponsored by Cultural and Political Ecology Specialty Group, Human Dimensions of Global Change Specialty Group, Applied Geography Specialty Group)**

**Room:** Maine, Marriott, Fifth Floor (Paper Session)

ORGANIZER(S): Rachel E. Golden Kroner, George Mason University - Fairfax, VA; Michael Mascia, Conservation International

CHAIR(S): Michael Mascia, Conservation International  
Introducer: Michael Mascia

**8:10** Siyu Qin\*, Conservation International, *Re-imagine the Map: Conservation Beyond Protected Areas.*

**8:28** Michael B. Mascia\*, Conservation International; Morena Mills, Imperial College London, *When Conservation Goes Viral: The Diffusion of Innovative Approaches to Biodiversity Conservation.*

**8:46** Christoph Nolte, PhD\*, Boston University, *Conserving More - But Where? Explaining Spatial Patterns of Land Acquisition for Conservation in the USA, Chile, and Colombia.*

**9:04** Rachel E. Golden Kroner\*, George Mason University -

Fairfax, VA; Michael B. Mascia, PhD, Conservation International, *Abandonment of conservation interventions via Protected Area Downgrading, Downsizing, and Degazettement (PADDD).*

**9:22** David Gill, Dr\*, George Mason University/Conservation International, *Linking protected area management to marine ecological outcomes.*

**5197. Anthropogenic Impacts on Watershed Hydrology and Ecosystem Services in Northwest China (Sponsored by China Specialty Group, Landscape Specialty Group, Water Resources Specialty Group)**

**Room:** Massachusetts, Marriott, Fifth Floor (Paper Session)

ORGANIZER(S): Chansheng He, Western Michigan University  
CHAIR(S): Chansheng He, Western Michigan University

**8:00** Lanhui Zhang, Ph.D., College of earth environmental sciences; Changsheng, He, College of earth environmental sciences, Lanzhou university, *Comparisons of precipitation data from interpolation estimates, numerical model outputs and satellite products in hydrological modelling for a large data-scarcity watershed.*

**8:20** Jinlin Li\*, College of Earth and Environmental Sciences, Lanzhou University, Lanzhou 730000, China; Lanhui Zhang, College of Earth and Environmental Sciences, Lanzhou University, Lanzhou 730000, China; Chansheng He, College of Earth and Environmental Sciences, Lanzhou University, Lanzhou 730000, China; Steven M Quiring, Department of Geography, Texas A&M University, College Station, TX, 77843, USA, *Analyzing scaling effects of soil moisture interpolation over different mountainous areas.*

**8:40** Bojie Fu\*, State Key Laboratory of Urban and Regional Ecology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing, *Hydrogeomorphic-Ecosystem Responses to Natural and Anthropogenic Changes in the Loess Plateau.*

**9:00** Chansheng He, Prof. \*, Western Michigan University, Lanzhou University; Yiwen Jiang, Center for Dryland Water Resources Research and Watershed Science, Lanzhou University; Lanhui Zhang, Dr., Lanzhou University; Baoqing Zhang, Dr., Lanzhou University; Xin Jin, Dr., Center for Dryland Water Resources Research and Watershed Science, Lanzhou University; Xiao Bai, Center for Dryland Water Resources Research and Watershed Science, Lanzhou University, *Modeling Water Saving Potential by Best Irrigation Management Practices in arid Northwestern China.*

**5198. Logistical Lifeworlds I: Assembling and Disassembling the Supply Chain (Sponsored by Political Geography Specialty Group, Socialist and Critical Geography Specialty Group, Economic Geography Specialty Group)**

**Room:** New Hampshire, Marriott, Fifth Floor (Paper Session)

ORGANIZER(S): Martin Danyluk, University of Toronto; Wesley Llewellyn Attewell, The University of Toronto  
CHAIR(S): Wesley Llewellyn Attewell, The University of Toronto

**8:00** Wesley Llewellyn Attewell, PhD\*, The University of Toronto, *"Logistics is the lifeline": Counterinsurgency logistics and the Vietnam War.*

**8:20** Martin Danyluk\*, University of Toronto, *"Battle of the Ports": The Panama Canal Expansion and the Shifting Architecture of World Trade.*

**8:40** Beth Gutelius\*, University of Illinois at Chicago, *"To be of use": Critical logistics scholarship in the social movement division of labor.*

**9:00** Alexander Arroyo\*, University of California - Berkeley, *From Milieu to Medium: 'Critical' Environmental Intelligence, Logistics, and Speculative Geography in the North Pacific and Arctic Oceans.*

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## 5206. Geographies of Aging, Health and Health Care 2 (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme, Health and Medical Geography Specialty Group)

Room: Room 107, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Mark W. Rosenberg, Queen's University; Jessica Finlay, University of Minnesota; Kyle Plumb, Queens University

CHAIR(S): Kyle Plumb, Queens University

10:00 Leon Hoffman\*, Simon Fraser University; Valorie A Crooks, Simon Fraser University; Jeremy Snyder, Simon Fraser University, *Purchasing Pills in Paradise: Lifestyle and retirement migrants' perceptions of the pharmaceutical sector on Cozumel Island, Mexico.*

10:20 Mengqi Yang\*, Queen's University; Mark W Rosenberg, Queen's University, *The social security system for older people in China.*

10:40 Mark W. Rosenberg, Ph.D.\*, Queen's University; Lindsay Herman, M.A. Candidate, University of Saskatchewan; Kathi Wilson, Ph.D., University of Toronto; Ryan Walker, Ph.D., University of Saskatchewan, *The Unheard Voices of Age-friendly Communities.*

11:00 Jessica Finlay\*, University of Minnesota, *Socio-Physical Contexts of Aging in Place.*

11:20 Nari Kim\*, Nari Kim, University of Tennessee, Knoxville, *Residential Space Perception of Elderly Welfare Housing Dwellers Based on Ageism.*

## 5207. Gender, sexual identity, and human rights (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme)

Room: Room 108, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Mainstreaming Human Rights

CHAIR(S): Hilary N. Ervin, Payson Center for International Development

10:00 Phunu Das Sarma\*, Education Department. Cotton College. Guwahati. India. ASSAM, *Violation of Human Rights among the Women with special reference to NE region..*

10:20 Heather M. Turcotte, PhD\*, UMASS Dartmouth and The Feminist Wire, *Legal Geographies and the Politics of Justice: Petroleum, Sexual Violence, and Transnationalisms.*

10:40 William J. Payne\*, York University, *The Abdicating State: Violence, impunity and LGBT rights in Guerrero, Mexico.*

11:00 Jakia Rajoana\*, University of Hull, UK, *Gender and Sustainable Rural Tourism: A study into the experiences and the roles of local women in the Sundarbans area of Bangladesh.*

11:20 Hilary N. Ervin\*, Payson Center for International Development, *Spaces of Vulnerability: Mapping Resilience and Gendered Violence in the Context of Human Rights.*

## 5208. Geographical History: From Maps as Documents to Maps as Method (Sponsored by Historical Geography Specialty Group)

Room: Room 109, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Susan Elizabeth Gagliardi, Emory University; Edward Triplett, Duke University

CHAIR(S): Susan Elizabeth Gagliardi, Emory University

Introducer: Susan Elizabeth Gagliardi

10:05 Meredith Lynn Goldsmith, PhD\*, Ursinus College, *Imaginary Cartographies: The Promises and Challenges of Mapping Realist Literary Space.*

10:24 Joanna Gardner-Huggett, PhD\*, DePaul University, *Extrapolating Influence: The Challenges of Mapping the History of Chicago Feminist Art Collectives.*

10:43 Yanna Yannakakis, Associate Professor\*, Emory University Libraries, *Problems of Narrative, Scale, and Temporality in "Power of Attorney in Oaxaca, Mexico:*

*Native People, Legal Culture, and Social Networks".*

11:02 Edward Triplett\*, Duke University, *Historical Mapping in Three Dimensions: Obstacles and Opportunities.*

Discussant(s): Paul B. Jaskot, DePaul University

## 5209. Contextualizing the diverse Geographies of Africa (Sponsored by Africa Specialty Group)

Room: Room 110, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Joseph Terzungwe Zume, Shippensburg University

CHAIR(S): Brad G. Peter, Michigan State University

10:00 Joseph T. Koroma\*, Peralta Colleges, *Financing the Sustainable Development Goals (SDGs) in Africa.*

10:20 Gabriella Yolanda Carolini, PhD\*, Massachusetts Institute of Technology, *Sisyphus Dilemmas of Development: Urban Infrastructure and Fiscal Policy Trends in Maputo, Mozambique.*

10:40 Darryl T. Cohen\*, U.S. Census Bureau; Stella U. Ogunwole, U.S. Census Bureau, *Characteristics of Selected Sub-Saharan African and Caribbean Ancestry Groups in the United States: 2008 to 2012.*

11:00 Brad G. Peter, Doctoral Student\*, Michigan State University; Joseph P. Messina, Professor, Michigan State University; April N. Frake, Doctoral Student, Michigan State University; Sieglind S. Snapp, Professor, Michigan State University, *Transforming Maize Marginality into Pigeonpea Opportunity: Malawi.*

## 5210. Climate and Global Change

Room: Room 111, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Allan W. Shearer, The University of Texas at Austin

10:00 Julie Snow\*, Slippery Rock University; Jaclyn Burke, Slippery Rock University, *Atmospheric hydrocarbon and particulate matter variability in Western PA during the Marcellus Shale Boom.*

10:20 Mark Anthony Ayure-Inga Agana\*, University of Arkansas; Mark Agana, University of Arkansas, *Have Geographers overcomplicated the Concept of Scale? Revisiting the Scale Problem in Global Climate Change Governance.*

10:40 Rachel Isaacs\*, Pennsylvania State University; Amanda Young, Pennsylvania State University; Andrew Carleton, Pennsylvania State University, *Whyther to Hyther? Updating the outdated and the case for climate hythergraphs in Biogeography.*

11:00 James D. MacAllister, MS, FLS (Fellow of the Linnean Society)\*, [environmentalevolution.org](http://environmentalevolution.org), *Geographic ramifications of the Earth-shaking paradigm shift in evolution and biology.*

11:20 Allan W. Shearer, Ph.D.\*, The University of Texas at Austin, *Microclimate in the Imagination of Mid-20th Century Environmental Designers.*

## 5211. Transnational urban expertise: geopolitics, histories and mobilities 2

Room: Room 200, Hynes, Second Level (Paper Session)

ORGANIZER(S): Hannah Neate, Manchester Metropolitan University; Ruth Craggs, King's College London

CHAIR(S): Ruth Craggs, King's College London

10:00 Hannah Neate\*, Manchester Metropolitan University, *Exporting New Town expertise: The British Urban Development Services Unit 1976-1979.*

10:20 Ricardo Cardoso\*, New York University, *Atlantic Urbanism? Elements for a study of Brazilian city-making in Angola.*

10:40 Susan Parnell\*, University of Cape Town, *Reducing risk in African cities - why the past matters politically, institutionally and technically.*

11:00 Sam Wetherell\*, Columbia University, *Freedom Planned: The Urban Enterprise Zone in Britain and the United*



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Discussant(s): Astrid Wood, Newcastle University

**5212. New Farmer Subjectivities and the Meaning of 'Good' Farming 1 (Sponsored by Geographies of Food and Agriculture Specialty Group)***Room:* Room 201, Hynes, Second Level (Paper Session)

ORGANIZER(S): Julia Laforge, University of Manitoba; Charles Zalman Levkoe, Wilfrid Laurier University

CHAIR(S): Charles Zalman Levkoe, Wilfrid Laurier University

**10:00** Kim Niewolny, PhD\*, Virginia Tech; Keiko Tanaka, PhD, University of Kentucky; Lorien MacAuley, Virginia Tech; Heather Hyden, University of Kentucky, *Emerging Systems of Sustainability: Exploring the Politics of New Farmer Knowledge Production in Central Appalachia.***10:20** Charles Z. Levkoe, PhD\*, Lakehead University; Abena Offeh-Gyimah, McMaster University, *Cultivating Monocultures of Ecological Farmers: New Farmers, Internships and the Future of Food Justice Movements.***10:40** Julia Laforge\*, University of Manitoba; Charles Levkoe, Lakehead University; Lauren Baker, Toronto Food Policy Council, *Everdale: A Case Study in New Farmer Knowledge and Subjectivities.***11:00** Lorien Eleanora MacAuley, MS\*, Virginia Tech, *A Critical Ethnographic Case Study of On-Farm Apprentices at Work: Social Justice and Farm Labor Implications.*

Discussant(s): Phil Mount, Wilfrid Laurier University

**5213. Contested Urban Territories 2: Socio-Territorial Movements***Room:* Room 202, Hynes, Second Level (Paper Session)

ORGANIZER(S): Anke Schwarz, University of Hamburg; Monika Streule, ETH Zurich

CHAIR(S): Monika Streule, ETH Zurich

**10:00** Claudia Maria Lopez, Ph.D. Candidate\*, University of California - Santa Cruz, *Contesting "Double Displacement": Rural Displaced Persons and the Right to the Territory in the "Medellin Miracle."***10:20** Giulia Torino\*, University of Cambridge, *Urban thresholds, urban as threshold: Toward a 'line-ar' analysis of hyphenated territories..***10:40** Steven Araujo\*, University of California, Santa Cruz, *Complex Territorial Work: The Neighborhood Activism of a Piquetero Movement.***11:00** Sam Halvorsen\*, University of Cambridge, *Decolonising Territory: Insights from Greater Buenos Aires.*

Discussant(s): Rogerio Haesbaert, Fluminense Federal University

**5214. Impact of Economic Restructuring on Services and Urban Structures***Room:* Room 203, Hynes, Second Level (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): David Sichinava, CRRC-Georgia

**10:00** Manos Skoufoglou\*, *Urbanization and counter-urbanization in Greece in the context of the Crisis.***10:20** Enrique Pérez-Campuzano\*, Instituto de Geografía; Hiram Hernández-Flores, Instituto de Geografía, UNAM; Elis Gómez-Garibay, Facultad de Economía, UNAM, *Spatial Distribution of Services: a point of view from mechanical statistics.***10:40** Eva Kiss\*, Hungarian Academy of Sciences, Budapest. West Hungarian University, Sopron, *Economic Restructuring and Health Status in Hungary.***11:00** David Doloreux\*, HEC Montreal; Anika Laperrière, John Molson School of Business, *Examining the use of ICTs in different regional settings.***11:20** David Sichinava\*, Tbilisi State University; Joseph Salukvadze\*, Tbilisi State University, *Spatial Patterns of Emerging Inequalities in Tbilisi, Georgia.***5215. Beyond "migration as adaptation": A Translocal Perspective on the Nexus of Migration & Environmental Change***Room:* Room 204, Hynes, Second Level (Paper Session)

ORGANIZER(S): Harald Sterly

CHAIR(S): Harald Sterly

Introducer: Harald Sterly

**10:01** Christian Webersik\*, University of Agder, *Contextualising Climate Change, Security and Migration: A study of Syrian, Somali and Pakistani refugees in the EU.***10:21** Bishawjit Mallick, Visiting Research Fellow\*, International Migration Institute, University of Oxford, Oxford, UK; Brooke Ackerly, Associate Professor, Department of Political Science, Vanderbilt University, Nashville, USA; Mathias Czaika, Associate Professor, International Migration Institute, University of Oxford, Oxford, UK; Jonathan Gilligan, Associate Professor, Dept. of Earth and Environmental Sciences, Vanderbilt University, Nashville, USA; Steven Goodbred, Professor, Dept. of Earth and Environmental Sciences, Vanderbilt University, Nashville, USA, *People at Risk: An Empirical Assessment of the Drivers of Immobility in the Case of Coastal Bangladesh.***10:41** Sopon Naruchaiskul\*, TransRe Project, Department of Geography, University of Bonn, *Agrarian and Environmental Changes in Thailand: Linkages between Climate-Related Risks, Livelihood and Migration.***11:01** Elise Remling\*, Södertörn University, *Movement of Ideas, Movement of People: How Translocal Discourses of Development Agencies affect Climate Adaptation in the South Pacific.***11:21** Reinmar Seidler, PhD\*, Univ Massachusetts Boston, *Climate Change, Agriculture, and Employment Migration in the Indian Eastern Himalaya: Adaptation or Increasing Vulnerability?.***5217. The politics of flooding in Asian coastal megacities***Room:* Room 206, Hynes, Second Level (Paper Session)

ORGANIZER(S): Kenneth Cardenas, York University; Gavin Shatkin, Northeastern University

CHAIR(S): Gavin Shatkin, Northeastern University

**10:00** Gavin Shatkin\*, Northeastern University, *Futures of Crisis, Futures of Urban Political Theory: Flooding in Asian Coastal Megacities.***10:20** Kenneth Cardenas\*, York University, *From states of calamity to the calamity state: The territoriality of risk management in an 'at-risk' society.***10:40** Andrew Rumbach\*, University of Colorado Denver; Liza Weinstein\*, Northeastern University, *The Contested Politics of Climate (In)action in India's Coastal Cities.***11:00** Maria Khristine Alvarez\*, University of the Philippines - Diliman, *Why the slum is evictable but the subdivision is not: Danger zones, territoriality, and the aesthetic turn of risk.***11:20** Kanako Iuchi\*, Tohoku University, *Revisiting Tohoku recovery: A review of the first five years of rebuilding after the Great East Japan Earthquake and Tsunami.***5219. Trump, Environmental Injustice, and the Ecological Crisis of American Capitalism***Room:* Room 210, Hynes, Second Level (Panel Session)

ORGANIZER(S): Daniel Richard Faber, Northeastern University; Salvatore Engel-DiMauro, SUNY New Paltz; Jason W. Moore

CHAIR(S): Laura Pulido, University of Oregon - Eugene, OR

Panelists: Daniel Richard Faber, Northeastern University; Jennie C. Stephens, Northeastern University; Damian Finbar White, RISD

**5221. Environmental Change: Vegetation, Wetlands, and Mining***Room:* Room 301, Hynes, Third Level (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Buddhi Raj Gyawali, Kentucky State University

**10:00** Lishen Mao\*, Eastern Michigan University; Tianyang Chen, Eastern Michigan University, *Detecting*



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*variations and responses of vegetation to climate change in the Inner Mongolia Autonomous Region from 2000 - 2014.*

- 10:20** Yang Yang\*, *Mapping a regional ecological network of habitat patches in Yunnan province.*
- 10:40** Rodolfo Curiel\*, Humboldt State University, *The Klamath in Transition: Creating Fire-Resilient Forests for the Future.*
- 11:00** Collin Branton\*, University of Waterloo; Derek Thomas Robinson, Ph.D., University of Waterloo, *Quantifying topographic variation in wetland landscapes.*
- 11:20** Buddhi Raj Gyawali\*, Kentucky State University; Tilak Shrestha, Kentucky State University; Jeremy Sandifer, Kentucky State University; Bishwa Acharya, Earth Mapping International; Neelam C Poudyal, University of Tennessee-Knoxville; Prabisha Shrestha, Kentucky State University; Oguz Sariyildiz, Kentucky State University, *Coal-mining, reclamation and microclimate variation: A geospatial perspective in understanding human-environment relationships in Kentucky's Appalachia.*

## **5223. Uncertainty in the city: Issues of planning, governance and citizenship**

- Room:** Room 303, Hynes, Third Level (Paper Session)
- ORGANIZER(S):** Swetha Rao Dhananka, Indian Institute for Human Settlements / Development Planning Unit UCL, UK; Champaka Tirumala Rajagopal, University of Amsterdam; Sai Balakrishnan
- CHAIR(S):** Swetha Rao Dhananka, Indian Institute for Human Settlements / Development Planning Unit UCL, UK
- 10:00** Loraine Kennedy, Professor\*, CNRS; Ashima Sood, Professor, NALSAR Law University, Hyderabad, *Outsourcing urban planning and management to 'Industrial Area Local Authorities' in Hyderabad, Telangana (India). Privatising public resources for building and maintaining premium spaces of production.*
- 10:20** Bhuvaneswari Raman\*, Jindal Global University, *The Politics of Urban Information and Knowledge : Participatory Mapping of Squatter Settlements.*
- 10:40** Rachna Gupta Lévêque\*, University College London, *Governing for resilience: responding to the uncertainties of urban densification.*
- 11:00** Julian Walker, MSc\*, University College London; Barbara Lipietz, PhD, University College London; Victor Onyebueke, PhD, University of Nigeria Nsukka; Oliver Ujah, PhD; Victoria Ohaeri, MA, Spaces for Change and Youth Development, Nigeria, *Urban infrastructure and displacement in Nigeria: Renegotiating urban citizenship and the 'public interest'.*
- 11:20** Sabin Ninglekhu\*, Nanyang Technological University, *Mutable Aspirations and Uncertain Futures: Examining Post-quake Possibilities for the Right to the City in Kathmandu.*

## **5224. Critical Geographies in Latin America (Sponsored by Latin America Specialty Group)**

- Room:** Room 304, Hynes, Third Level (Panel Session)
- ORGANIZER(S):** Anne-Marie Hanson, University of Illinois Springfield; John Finn, Christopher Newport University
- CHAIR(S):** Anne-Marie Hanson, University of Illinois Springfield
- Discussant(s):** Sharlene L. Mollett, University of Toronto
- Panelists:** Anne-Marie Hanson, University of Illinois Springfield; John Finn, Christopher Newport University; Christopher Gaffney, University of Zurich; Kendra McSweeney, The Ohio State University; Zoe Pearson, University of Wyoming; Maria Fernanda Lopez, FLACSO Ecuador; Perry L. Carter, Texas Tech University; Stephanie Buechler, University of

Arizona - Geography & Development; Andrew Sluyter, Louisiana State University

## **5225. Breaking Down Borders**

- Room:** Room 305, Hynes, Third Level (Paper Session)
- ORGANIZER(S):** Program Committee
- CHAIR(S):** Ugo Fratesi, Politecnico di Milano
- 10:00** Noah Esther Rubin\*, University of Michigan, *Planning divided cities: how Jerusalem was divided and unified through planning, 1948-1967.*
- 10:20** Gideon Biger\*, Tel Aviv University, *The Latrun no-man's area between Israel and Jordan.*
- 10:40** Sungmin Jang\*, University of Connecticut; William Berentsen, University of Connecticut, *Toward Increased Cross-Border Interactions: A Comparative Study of Inner-Border Areas in Germany and Korea.*
- 11:00** Irina Saghin\*, University of Bucharest/Ovidius University of Constanta; Ioan Ianos, University of Bucharest; Igor Sirodoev, University of Bucharest/Ovidius University of Constanta; Mirela Paraschiv, Ovidius University of Constanta; Natasa Vaidianu, Ovidius University of Constanta, *What does it mean territorial cohesion for Romania? In search of a viable solution..*
- 11:20** Roberta Capello, Politecnico di Milano; Andrea Caragliu, Politecnico di Milano; Ugo Fratesi\*, Politecnico di Milano, *Breaking Down the Border: Physical, Institutional and Cultural Obstacles.*

## **5226. Keywords for Urban Geography**

- Room:** Room 306, Hynes, Third Level (Panel Session)
- ORGANIZER(S):** Margaret Marietta Ramirez, University of Washington, Seattle; Asha Best, Rutgers University
- CHAIR(S):** Asha Best, Rutgers University
- Introducer:** Margaret Marietta Ramirez
- Panelists:** Denisse Andrade, The Graduate Center, CUNY; Christian Anderson, University of Washington-Bothell; Asha Best, Rutgers University; Tessa Ann Eidelman, Vanderbilt University; Punam Khosla, York University; Sara Safransky, Vanderbilt University

## **5228. Penchansky and Thomas' (1981) Theory of Access: The Role of Availability, Accessibility, Accommodation, Affordability, and Acceptability in Health Studies (Sponsored by Applied Geography Specialty Group, Population Specialty Group, Health and Medical Geography Specialty Group)**

- Room:** Room 308, Hynes, Third Level (Paper Session)
- ORGANIZER(S):** Yolanda Jane McDonald, Texas A&M University
- CHAIR(S):** Yolanda Jane McDonald, Texas A&M University
- 10:00** Parijat Borgohain, Associate Professor\*, Cotton College, *Health Care Accessibility and Socio-Economic Conditions of Tea Workers of Hajua and Birinajan Tea Estates of Assam, India.*
- 10:20** Emelie Bailey, MA\*, The Ohio State University, *Healthcare access and health system decentralization in Southwestern Honduras.*
- 10:40** Yolanda Jane McDonald, M.A.\*, Texas A&M University; Daniel W. Goldberg, Ph.D., Texas A&M University; Isabel C Scarinci, Ph.D., MPH, University of Alabama at Birmingham; Philip E Castle, Ph.D., MPH, Albert Einstein College of Medicine; Jack Cuzick, Ph.D., Wolfson Institute of Preventive Medicine, Queen Mary, University of London; Michael Robertson, B.S., University of New Mexico Health Sciences Center; Cosette M. Wheeler M Wheeler, Ph.D., University of New Mexico Health Sciences Center; on behalf, of the New Mexico HPV Pap Registry Steering Committee, *Geographic accessibility to healthcare providers of cervical cancer prevention services: Comparing rural versus non-rural residence in New Mexico.*
- 11:00** Mohammed Khalifa Al-Kuwari\*, Qatar University, *Spatial accessibility to primary health center (PHC) using GIS*

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Discussant(s): Paul L. Delamater, George Mason University

**5230. Decolonizing Water: Indigenous water politics, resource extraction, and settler colonialism (Sponsored by Energy and Environment Specialty Group, Indigenous Peoples Specialty Group)**

*Room:* Room 310, Hynes, Third Level (Paper Session)

ORGANIZER(S): Karen Bakker, University of British Columbia; Glen Coulthard, University of British Columbia

CHAIR(S): Karen Bakker, University of British Columbia

**10:00** Michelle D. Daigle, PhD\*, University of British Columbia, *The Gendered Politics of our Water Relations.*

**10:20** Dionne K. Zoanni\*, Montana State University, *Traditional Ecological Knowledge and Water Governance on Fort Peck Indian Reservation, MT.*

**10:40** Lori E.A. Bradford\*, University of Saskatchewan; Graham E.H. Strickert, School of Environment and Sustainability, University of Saskatchewan; Lalita Anne Bharadwaj, School of Public Health, University of Saskatchewan, *The Crow and the Pitcher and Indigenous Water Governance.*

**11:00** Jessica Hallenbeck\*, University of British Columbia, *Fish Farms and Freeways: Dispossession from Water, Dispossession from Land.*

**11:20** Heather J. Dorries\*, Carleton University, *Red Water: Considering the Setter-Colonial Dimensions of Urban Water Management.*

**5232. United States Weather Changes**

*Room:* Room 312, Hynes, Third Level (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Sarah M. Harris

**10:00** Saber Brasher\*, Texas State University - San Marcos; Richard W. Dixon, Texas State University - San Marcos, *Trends and Characteristics of North Atlantic Tropical Cyclones.*

**10:20** Tori Hampton\*, Western Kentucky University; Josh Durkee, Western Kentucky University; Joshua Gilliland, Louisiana State University; Alan Black, Louisiana State University, *A climatology of high-wind events in the eastern United States during 1973-2015.*

**10:40** Rudy Bartels\*, Louisiana State University, *An Annual Analysis of Frequency and Magnitude of Rain days in the United States.*

**11:00** Sarah M. Harris\*, University of California, Santa Barbara, *Precipitation analysis of Southern California atmospheric rivers.*

**5238. Past Environmental Change in Mountain Areas (Sponsored by Paleoenvironmental Change Specialty Group, Cryosphere Specialty Group, Mountain Geography Specialty Group)**

*Room:* Independence East, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Yanan Li, South Dakota State University; Robin Blomdin

CHAIR(S): Yingkui Li, University of Tennessee

**10:00** Adolfo Quesada\*, National University Of Costa Rica, *Glacial geomorphology of Chirripó National Park, Costa Rica.*

**10:20** Qinahua Ye\*, Key Laboratory of Tibetan Environment Changes and Land Surface Processes, Institute of Tibetan Plateau Research, Chinese Academy of Sciences (CAS), Beijing 100101, China; Wei Nie, Key Laboratory of Tibetan Environment Changes and Land Surface Processes, Institute of Tibetan Plateau Research, Chinese Academy of Sciences (CAS), Beijing 100101, China; Jibiao zong, Key Laboratory of Tibetan Environment Changes and Land Surface Processes, Institute of Tibetan Plateau Research, Chinese Academy of Sciences (CAS), Beijing 100101, China, *Glacier changes on the Tibetan plateau since 1970s.*

**10:40** Yingkui Li\*, University of Tennessee; Yixin Chen, College of Urban and Environmental Sciences, Peking University, Beijing 100871, China; Gengnian Liu, College of Urban and Environmental Sciences, Peking University, Beijing 100871, China; Mei Zhang, College of Urban and Environmental Sciences, Peking University, Beijing 100871, China; Zhijiu Cui, College of Urban and Environmental Sciences, Peking University, Beijing 100871, China, *Constraining the timing of the oldest glaciation on the Tibetan Plateau using cosmogenic Al-26 and Be-10 dating.*

**11:00** Yanan Li\*, South Dakota State University; Yingkui Li, The University of Tennessee, Knoxville; Xiaoyu Lu, The University of Tennessee, Knoxville; Jon Harbor, Purdue University, *Geomorphometric Controls on Mountain Glacier Changes since the Little Ice Age in the Eastern Tien Shan, Central Asia.*

**11:20** Robin Blomdin\*, Stockholm University; Arjen P Stroeven, Stockholm University; Jonathan M Harbor, Purdue University; Clas Hättestrand, Stockholm University; Jakob Heyman, University of Gothenburg; Natacha Gribenski, Stockholm University, *Spatial and temporal patterns of paleoglaciation across Central Asia.*

**5239. Automation, Classification and Spatial Analysis**

*Room:* Independence West, Sheraton, Second Floor (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Erik Schmidt, Oak Ridge National Laboratory

**10:00** Brian Moore\*, Oak Ridge National Laboratory (ORNL); Jacob McKee, Oak Ridge National Laboratory (ORNL); Jeanette Weaver, Oak Ridge National Laboratory (ORNL), *The Impact of Seasonality on the Automated Delineation of Settlements.*

**10:20** Alexander Hohl\*, University of North Carolina - Charlotte; Minrui Zheng, University of North Carolina - Charlotte; Meijuan Jia, University of North Carolina - Charlotte; Eric M Delmelle, University of North Carolina - Charlotte; Wenwu Tang, University of North Carolina - Charlotte, *Sensitivity Analysis of a High-Performance Spatiotemporal Pattern Mining Algorithm.*

**10:40** Gautam Thakur\*, Oak Ridge National Laboratory; Kevin Sparks, ORNL, Oak Ridge National Laboratory; Robert Stewart, Team Lead, ORNL, Oak Ridge National Laboratory; Marie Urban, R&D Staff Member, Oak Ridge National Laboratory, *Exploring Open-source Data for Developing Day and Night Facility Level Occupancy Signatures.*

**11:00** MIN YANG\*, wuhan university; xingong li, phd, the university of kansas; tinghua ai, phd, wuhan university; xiongfeng yan, wuhan university, *Trajectory simplification through bottom-up reduction and sliding window.*

**11:20** Erik Schmidt\*, Oak Ridge National Laboratory, *Extracting Nominal Voltage Indicators Using a Semi-Automated Approach.*

**5240. Authors meet Critics: Davis & Sayre on Range and Arid Lands (Sponsored by Cultural and Political Ecology Specialty Group, Historical Geography Specialty Group)**

*Room:* Liberty B, Sheraton, Second Floor (Panel Session)

ORGANIZER(S): Diana K. Davis, University of California - Davis; Nathan F. Sayre, University of California, Berkeley

CHAIR(S): Thomas J. Bassett, University Of Illinois

Panelists: Paul Robbins, Nelson Institute for Environmental Studies University of Wisconsin; Rebecca Lave, Indiana University; Maria Fernandez-Gimenez, Colorado State University; Simon P J Batterbury, Lancaster University; Geoff Mann, Simon Fraser University

**SUNDAY, April 9 • 10:00 AM - 11:40 AM • 5200****5241. Spatiotemporal analytics on Smart Cities (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group, Spatial Analysis and Modeling Specialty Group)**

*Room:* Liberty C, Sheraton, Second Floor (Panel Session)  
 ORGANIZER(S): Manzhu Yu, George Mason University  
 CHAIR(S): Weihe Wendy Guan, Harvard University  
 Discussant(s): Joseph Ferreira Ferreira, MIT  
 Panelists: Daniel Z. Sui, The Ohio State University; Hui Lin, The Chinese University of Hong Kong; Xinyue Ye, Kent State University

**5242. Formal and informal dynamics of affordable housing development (II) (Sponsored by China Specialty Group, Regional Development and Planning Specialty Group, Urban Geography Specialty Group)**

*Room:* Back Bay Ballroom A, Sheraton, Second Floor (Paper Session)  
 ORGANIZER(S): Shenjing He, The University of Hong Kong; Youqin Huang, SUNY - Albany  
 CHAIR(S): Youqin Huang, SUNY - Albany  
 10:00 Sofia Garcia\*, MIT, *The State as Informal: From the Right to Housing to the Defense of Private Property in Peru.*  
 10:20 Anthony Boanada Fuchs\*, University of São Paulo, *The (non)planning of (in)formal housing in Ahmedabad - A systematic institutional approach.*  
 10:40 Omnia Khalil\*, the Graduate Center, CUNY, *Social Urban Justice and Self-Built Housing in Bulaq, Egypt.*  
 11:00 Rodrigo Edgardo Gonzalez Lagos\*, Universidad De Santiago De Chile, *Mapping of social housing programs in Santiago, Chile.*  
 Discussant(s): Cindy Fan, UCLA

**5248. Sustainable approaches to urban weather and climate (II) (Sponsored by Climate Specialty Group)**

*Room:* Beacon D, Sheraton, Third Floor (Paper Session)  
 ORGANIZER(S): Austin Bush, Auburn University; Winston T. Chow, National University of Singapore; Chandana Mitra, Auburn University  
 CHAIR(S): Gerald Mills  
 10:00 Dimuth Kurukulaarachchi\*, University of Western Ontario; Charles C Smart, PhD, University of Western Ontario; James A Voogt, PhD, University of Western Ontario, *On Green Roof Evaporative Cooling.*  
 10:20 Lup Wai Chew, Ph.D. Candidate\*, Massachusetts Institute of Technology; Amir A. Aliabadi, Professor, University of Guelph; Rajasekhar Balasubramanian, Professor, National University of Singapore; Leslie K. Norford, Professor, Massachusetts Institute of Technology, *Pedestrian Level Wind Flow Enhancement with Wind Catcher.*  
 10:40 David M. Hondula, Ph.D.\*, Arizona State University; Mario Chavez, Arizona State University; John Harlow, Ph.D., Arizona State University; Ariane Middel, Ph.D., Arizona State University; Erik W. Johnston, Ph.D., Arizona State University; Jennifer K. Vanos, Ph.D., University of California San Diego, *Thermal Comfort and Shade Provision at City of Phoenix Bus Stops.*  
 11:00 Michael T Wilson, RLA\*, MIT, *Theorizing the Resilient District: A Design-Based Approach to Geographies of Urban Coastal Climate Change Adaptation.*  
 11:20 Gerald Mills\*, School of Geography, University College Dublin, Ireland; Alexander Paul, MaREI Centre Environmental Research Institute Beaufort Building, University College Cork, *Using WUDAPT to explore urban exposure to climate change hazards.*

**5249. Geography and Digital Film - What next? -- A Roundtable Panel Discussion (Sponsored by Geography Education Specialty Group, Cultural Geography Specialty Group, Communication Geography Specialty Group)**

*Room:* Beacon E, Sheraton, Third Floor (Panel Session)  
 ORGANIZER(S): Joseph Palis, University of the Philippines-

Diliman; Jessica Jacobs, Queen Mary University of London

CHAIR(S): Jessica Jacobs, Queen Mary University of London  
 Panelists: Hannah Gunderman, University of Tennessee; Robert Fletcher, Wageningen University; Altha J. Cravey, University Of North Carolina; Kevin E. McHugh, Arizona State University; Harvey K. Flad, Vassar College

**5250. Geoeconomics (Sponsored by Human Dimensions of Global Change Specialty Group, Regional Development and Planning Specialty Group, Economic Geography Specialty Group)**

*Room:* Beacon F, Sheraton, Third Floor (Paper Session)  
 ORGANIZER(S): Balázs Forman, Corvinus University of Budapest  
 CHAIR(S): Balázs Forman, Corvinus University of Budapest  
 Introducer: Balázs Forman  
 10:10 Fengjuan Wei\*, Hubei University of Technology; Jiangfeng Li, China University of Geosciences (Wuhan), *Research on the Coordinated Development Evaluation Between Resources-environment and Economy in Resources-based Regions.*  
 10:28 Eduarda Silva Marques Da Costa\*, Universidade de Lisboa - CEG-IGOT; Nuno Marques Costa, Universidade de Lisboa CEG IGOT; Pedro Palma, Universidade de Lisboa CEG\_IGOT, *Welfare systems, social services and European Regional Disparities.*  
 10:46 Georgeta Stoian Connor, Ph.D.\*, Georgia Gwinnett College; Georgeta Stoian Connor, Ph.D., Georgia Gwinnett College, *Assessing Romania's Integration: A Social Constructivist Analysis of Rural Romania after Ten Years of EU Membership.*  
 11:04 Szymon Marcinczak, Prof\*, University of Lodz, *Determinants of individual commuting in Poland two decades after socialism.*  
 11:22 Pratyusha Basu\*, University of Texas at El Paso; Milena Janiec Grygo, *Constructing the Future or Repeating the Past? Media Representations of China's Role in the Kenya-Uganda Railway.*

**5253. Spatiotemporal visualization II: Geovisual Analytics (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group, Spatial Analysis and Modeling Specialty Group)**

*Room:* Dalton A, Sheraton, Third Floor (Paper Session)  
 ORGANIZER(S): Wei Luo, Arizona State University; Min Chen, Nanjing Normal University  
 CHAIR(S): Wei Luo, Arizona State University  
 10:00 Arif Masrur\*, Pennsylvania State University, *A Geovisual Analytics Framework for Measuring Interesting Patterns from Discovered Pattern Data.*  
 10:20 Pragya Srivastava\*, WVU; Trevor M Harris, WVU, *Innovative Approaches to 3D GIS Modeling for Volumetric and Geoprocessing Applications in Subsurface Infrastructures in a Virtual Immersive Environment.*  
 10:40 Michael R Desjardins, M.A.\*, Department of Geography and Earth Sciences and Center for Applied Geographic Information Science, University of North Carolina at Charlotte; Alexander Hohl, M.A., Department of Geography and Earth Sciences and Center for Applied Geographic Information Science, University of North Carolina at Charlotte; Adam Griffith, M.S., Department of Geography and Earth Science and Center for Applied Geographic Information Science, University of North Carolina at Charlotte; Eric Delmelle, M.A., Ph.D., Department of Geography and Earth Sciences and Center for Applied Geographic Information Science, University of North Carolina at Charlotte, *Visualizing space-time patterns of pollen across the Eastern United States in a 3D environment: A parallel*



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approach.

**11:00** Eli Knaap, PhD\*, University of Maryland, *The Cartography of Opportunity*.

**11:20** Danyang Liu\*, Key Laboratory of Virtual Geographic Environment (Nanjing Normal University), Ministry of Education; Min Chen, Key Laboratory of Virtual Geographic Environment (Nanjing Normal University), Ministry of Education; Kejian Qian, International Training Center for Geographical Information System at Suzhou; Mengling Lei, Key Laboratory of Virtual Geographic Environment (Nanjing Normal University), Ministry of Education, *Morphology Detection of Group Impact Crater Based on the Lunar Digital Elevation Model Using Terrain Analysis Method*.

**5255. An interdisciplinary look at Utah's water and environment (Sponsored by Water Resources Specialty Group)**

**Room:** Hampton A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Hilary Hungerford, Utah Valley University - OREM, UT; Melissa Haeffner, Utah State University

CHAIR(S): Melissa Haeffner, Utah State University

**10:00** Matthew De Lora\*, Utah Valley University; Nathan Toke, Ph.D, Utah Valley University; Hilary Hungerford, Ph.D, *Assessment of Environmental Injustices Associated with TRI Sites in Utah's Wasatch Front Communities Using Dasyetric Mapping and Geographically Weighted Regression*.

**10:20** Jacqueline N. Kerr\*, The University of Tennessee, *Situating Fracking: Location, Environment, and History in Residents' Perceptions of Fracking and Fracking Arguments in Vernal, Utah*.

**10:40** Jordan W Smith, Ph.D.\*, Institute of Outdoor Recreation and Tourism, Utah State University, *The influence of observed hydrologic and meteorological conditions on the temporal dynamics of visitation to the North Fork of the Virgin River, Utah, USA*.

**11:00** Hilary Hungerford\*, Utah Valley University, *Watering the cloud: A political ecology of water, infrastructure, and technology industries in urban Utah*.

Discussant(s): Melissa Haeffner, Utah State University

**5256. Youth engagement in environmental perception and behavior research (Sponsored by Environmental Perception and Behavioral Geography Specialty Group)**

**Room:** Hampton B, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Bethany Cutts, North Carolina State University

CHAIR(S): Corey Martz, University of Denver

**10:00** Beth Schlemper\*, University of Toledo; Kevin Czajkowski, University of Toledo; Sujata Shetty, University of Toledo; Victoria Stewart, University of Toledo, *In the Neighborhood with Geospatial Thinking and Technologies: Empowering Students to Make a Difference*.

**10:20** Sarah E.L. Wakefield\*, University Of Toronto; Michael Chrobok, University of Toronto; Carla Borstaad-Klassen, University of Toronto, *Evaluating Change: Program Evaluation, Community Development, and the Neighborhood Action Strategy*.

**10:40** Daniela Schmeink\*, University of Cologne, *Improving children's understanding of spatial systems by active outdoor learning*.

**11:00** Ahmed Allahwala, PhD\*, University of Toronto Scarborough, *Fostering critical citizenship through participatory action research in secondary geography*.

**11:20** Corey J Martz\*, University of Denver, *Impact of an Immersive Experience in a Natural Area on Sense of Place for Denver Urban Children*.

**5257. Alternative green practices 2 (Sponsored by Energy and Environment Specialty Group, Economic Geography Specialty Group)**

**Room:** Gardner A, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Julia Affolderbach, University of Hull; Christian Schulz, University of Luxembourg; Rob Krueger, Worcester Polytechnic Institute

CHAIR(S): Julia Affolderbach, University of Hull

**10:00** David Sauri\*, DEpartment de Geografia, UAB; Maria Hernandez\*, Institute of Geography, University of Alicante, *Private and Citizen-led Approaches to Water Recycling : Contrasting Experiences in Mediterranean Spain*.

**10:20** Melinda Mihály\*, Leipzig University, *Understanding social and solidarity economy initiatives in peripheralized rural areas - Cases from Hungary and (Eastern) Germany*.

**10:40** Sorin Cebotari\*, Babes-Bolyai University, Romania, *Against all odds: Community owned renewable energy projects in North-Western Romania*.

**11:00** Michael T. Bacon\*, University of Virginia School of Architecture, *Assemblages of Care: Community Ownership in Rural Scotland*.

**11:20** David C. Gibbs\*, University of Hull, *Transition Regions and Alternative Green Economy Practices: A Research Agenda*.

**5258. Emotion, politics and literary space: book discussion of Sunil Yapa's Your Heart is a Muscle the Size of a Fist (2016). (Sponsored by Political Geography Specialty Group, Cultural Geography Specialty Group)**

**Room:** Gardner B, Sheraton, Third Floor (Panel Session)

ORGANIZER(S): Kolson Schlosser, Temple University; Melissa Y. Rock, SUNY New Paltz

CHAIR(S): Kolson Schlosser, Temple University

Panelists: Kolson Schlosser, Temple University; Sarah De Leeuw, University of Northern British Columbia; Melissa Y. Rock, SUNY New Paltz; Alissa Rossi, University Of Kentucky; Sunil Yapa, Penn State University

**5260. Economic geographies of urban revitalisation - destruction and creation (2)**

**Room:** Fairfax B, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Bong Jeon, University College London; Stefania Fiorentino, University College London

CHAIR(S): Stefania Fiorentino, University College London

**10:00** Takehiko Fujii\*, The University of Tokyo, *Diffusion of Technological Knowledge in Agri-industrial Clusters: A Case Study of Japan's Wine Industry*.

**10:20** Ties Vanthillo, University of Antwerp; Jeroen Cant, University of Antwerp; Thierry Vanelander, University of Antwerp; Ann Verhetsel, University of Antwerp, *The role of regional strategies in the evolution of a chemical cluster*.

**10:40** Zhongjin Li\*, University of Massachusetts - Amherst, *Developmental states and neoliberalizing space in East Asia A case of Japan and South Korea*.

**11:00** Bong kyung Jeon, University College London (UCL), *The role of local public intermediaries in the revival of the Daegu textile industry in Korea*.

Discussant(s): Jung Won Sonn, University College London

**5261. Perspectives on Development & Social Change Across Africa and the Diaspora (Sponsored by Africa Specialty Group)**

**Room:** Jefferson, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Amber Murrey, Clark University; Joseph Terzungwe Zume, Shippensburg University

CHAIR(S): Joseph Terzungwe Zume, Shippensburg University

**10:00** Adobea Yaa Owusu, PhD MPH\*, University of Ghana; George Owusu, PhD, University of Ghana; Martin Oteng-Ababio, University of Ghana; Charlotte Wrigley-Asante, PhD, University of Ghana, *"Who the cap fits?": Profile of respondents and households/ household member(s) who have suffered crime in Ghana's four biggest cities*.

**10:20** Christopher W. Myers, Mr.\*, Miami University;



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Christopher Myers, Miami University - Oxford, OH,  
*Electrification as Development at Mt. Kasigau, Kenya.*

**10:40** Thea Christina Schoeman\*, University of Johannesburg,  
*Formalizing Waste Pickers in the City of Johannesburg, South Africa.*

**11:00** Hui Jeong Ha\*, The Ohio State University, *Defining for African American Female.*

**11:20** Elena Givental\*, California State University, East Bay,  
*Analyzing the Roots of Overurbanization and Poverty Production in Addis Ababa, Ethiopia.*

**5262. Addressing the Challenges of Urban Climate Change Resilience and Vulnerability in Southeast Asia**

*Room:* Kent, Sheraton, Third Floor (Paper Session)

ORGANIZER(S): Amrita G. Daniere, University of Toronto  
CHAIR(S): Amrita G. Daniere, University of Toronto

**10:00** Nathan Stewart\*, University of Toronto, *Pushed to the Edge: Citizenship, Vulnerability, and the Temporal Allocation of Rights and Protections in the Informal Settlements of Khon Kaen, Thailand.*

**10:20** Angelica de Jesus\*, University of Toronto, *The cascading impacts of migration and environmental challenges: Experiences of Myanmar labour migrants in Phuket, Thailand.*

**10:40** Gwenn Pulliat\*, University of Toronto / IRASEC (Research Institute on Contemporary Southeast Asia), *Urban agriculture and environmental justice. Towards a gentrification of agriculture in Southeast Asian cities?.*

**11:00** Furqan Asif\*, University of Ottawa, *Leaving the coast: the interplay of migration, well-being and resilience in Cambodian coastal fishing communities.*

Discussant(s): Amrita G. Daniere, University of Toronto

**5264. Innovation and stagnation: Fostering methodological insights in the movement, circulation, and transformation of things and materials II**

*Room:* Boylston, Marriott, First Floor (Paper Session)

ORGANIZER(S): Joshua Cousins, Dartmouth College; Eric Lovell, University of Colorado - Boulder

CHAIR(S): Eric Lovell, University of Colorado - Boulder

**10:00** Paul O'Keefe\*, Rutgers University, *Dancing the dialectic: Climate Change and People Change in Tanzania.*

**10:20** Elizabeth Havice\*, University of North Carolina-Chapel Hill; Amy Braun, University of North Carolina, Chapel Hill; Andre Boustany, Duke University; Lisa Campbell, Duke University, *Tracking Mobile Marine Species: Spatial Data, Visualization and the Science-Policy Interface.*

**10:40** Eric Lovell\*, University of Colorado - Boulder, *Land-use Planning, Livestock Movements, and Gully Erosion in Northern Tanzania.*

**11:00** Firooza Pavri\*, University Of Southern Maine, *Citizen scientists and lake stewardship: it's not all about data collection.*

**5267. Sustainable Urbanization: Challenges and Opportunities (2) (Sponsored by Geographic Information Science and Systems Specialty Group, Urban Geography Specialty Group, Energy and Environment Specialty Group)**

*Room:* Columbus 2, Marriott, First Floor (Paper Session)

ORGANIZER(S): Yuyu Zhou, Iowa State University; Wenze Yue, Zhejiang University; Bailang Yu, East China Normal University

CHAIR(S): Wenze Yue, Zhejiang University

**10:00** Matthew Robert Stiller\*, Kent State University; V. Kelly Turner, PhD, Kent State University, *The Impacts of Homeowners Associations on Residential Land Ecology in Phoenix, Arizona.*

**10:20** Xizhi Zhao\*, East China Normal University; Bailang Yu\*, East China Normal University; Ting Lian, East China Normal University; Shunqiang Deng, East

China Normal University; Chengshu Yang, East China Normal University; Jianping Wu, East China Normal University, *How can nighttime light detect events? Preliminary results..*

**10:40** Yuyu Zhou\*, Iowa State University, *Urbanization and Environmental Sustainability.*

**11:00** Benjamin Stewart\*, The World Bank Group; Mark Roberts, Sr Urban Economist, The World Bank Group; Brian Blankespoor, Environmental Specialist, The World Bank Group; Chandan Deuskar, PhD Student, University of Pennsylvania, *Urbanization and Development: Is Latin America and the Caribbean Different from the Rest of the World?.*

**11:20** Nancy Davis Lewis, PhD\*, East-West Center, *The Sustainable Development Agenda 2030: Health, Gender and Urbanization.*

**5269. Sexual(ities that) progress? (Sponsored by Geographic Perspectives on Women Specialty Group, Sexuality and Space Specialty Group)**

*Room:* Regis, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Kath Browne, University of Brighton; Nick McGlynn, University of Brighton; Jason K. Lim, University of Brighton

CHAIR(S): Nick McGlynn, University of Brighton

**10:00** Debanuj DasGupta, PhD\*, University of Connecticut; Debanuj DasGupta, University of Connecticut, *Toward a queer politics of life and death: Transgender detention and gay marriage in post 9/11 USA..*

**10:20** Kay Lalor\*, Manchester Metropolitan University, *Progress at home and violence abroad? Interrogating transnational legal narratives of sexual orientation and gender identity.*

**10:40** Marco La Rocca\*, Gran Sasso Science Institute (GSSI), *L.G.B.T.Q. Landscapes of Gentrification Building up in Turin: the Quadrilatero.*

**11:00** Catherine Jean Nash, Dr. \*, Brock university, Department of Geography; Kath Browne\*, University of Brighton; Andrew Gorman-Murray, Dr., Western Sydney University, *Teaching sex ed in Ontario: parental rights, discrimination and opposing the LGBT 'agenda.'*

**5270. Changing urban landscapes in Chinese cities (Sponsored by China Specialty Group)**

*Room:* Northeastern, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Xiaobo Su, University of Oregon

CHAIR(S): Maria Francesca Piazzoni, University of Southern California

**10:00** Maria Francesca Piazzoni\*, University of Southern California; Tridib Banerjee, University of Southern California, *From Faust to Faux: Mimesis in Urban Design and the Case of Chinese Simulacrascapes.*

**10:20** Mingfeng Wang\*, East China Normal University, *"Internet Plus" City: The impact of advanced information and communication technologies on the changing urban system in China.*

**10:40** Xin Li\*, Assistant Professor, *The Creative Class in China's Urban Villages: Upgrading Urban Slums.*

**11:00** Dixiang Xie\*, Guangdong University of Technology; Jiang Chang, Michigan State University, *China 's Urban Regeneration: Growth Machines and Place Reconstruction.*

**11:20** Yang Chen\*, Department of land management, Zhejiang University; WenZe Yue, Department of land management, Zhejiang University; Qun Zhang, Department of land management, Zhejiang University, *Measuring urban vitality in large Chinese city: the case of Shanghai, China.*

**SUNDAY, April 9 • 10:00 AM - 11:40 AM • 5200****5271. Beyond the 'end of Cheap Nature': The production of waste-based commodity frontiers, Part II (Sponsored by Cultural and Political Ecology Specialty Group)****Room:** Brandeis, Marriott, Third Floor (Paper Session)ORGANIZER(S): Seth Schindler, University of Sheffield;  
Federico Demaria, Universitat Autònoma de Barcelona  
CHAIR(S): Federico Demaria, Universitat Autònoma de Barcelona**10:00** Kerri Jean Ormerod, PhD\*, University of Nevada, *The production and promotion of potable water recycling in the United States.***10:20** Kathleen Stokes\*, University of Manchester, *Community responsibility and labour in South African waste management.***10:40** Natasha L. Cornea\*, University College London, *Working waste in Lusaka: urban political ecologies of solid waste under privatisation.***11:00** Hervé Corvellec, Dr., Department of Service Studies, Lund University, Sweden; Jutta Gutberlet, Prof. Dr.\*, Department of Victoria, University of Victoria, Canada; Maria José Zapata Campos, Dr., School of Business, Economics and Law, University of Gothenburg, Sweden; Patrik Zapata, Dr., Public Administration, University of Gothenburg, Sweden, *Expansion of the Waste-Based Commodity Frontier: Wasting Resources and Livelihoods.*

Discussant(s): Lucia Fernandez, University

**5272. Suburban Geographies of Crisis and Change I (Sponsored by Urban Geography Specialty Group, Ethnic Geography Specialty Group)****Room:** MIT, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Coleman Allums, University of Georgia; Scott Markley, University of Georgia; Guillaume Poirat, Sorbonne University

CHAIR(S): Scott Markley, University of Georgia

**10:00** Olivia Ildefonso\*, CUNY - Graduate Center, *Understanding Trumpland in Suburban New York.***10:20** Peter Wissoker\*, Cornell University, *Who's paying for that? Sources of Capital in Post-2008 Suburban Redevelopment in the Boston and San Diego Metropolitan Areas.***10:40** Coleman A. Allums\*, University of Georgia, *The Politics of Urban Secession: Race, Class, and Democracy in Atlanta.***11:00** Steven R. Holloway, Ph.D.\*, University Of Georgia; Mark Ellis, Ph.D., University of Washington; Richard Wright, Ph.D., Dartmouth College; Gemma Catney, Ph.D., University of Liverpool, *Segregated Diversity and the Evolving Geography of Atlanta's Suburban Poverty.***11:20** Sarah S. Hosman\*, Boston University, *"I Want(ed) Suburbs:" How Residents Utilize Suburban Neighborhood Narrative Frames in Allston, MA.***5273. UBC Urban Studies Lab Panel 1 (Environment and Social Psychology): Interdisciplinary Urban Inquiry (Sponsored by Qualitative Research Specialty Group, Urban Geography Specialty Group, Cultural Geography Specialty Group)****Room:** Boston University, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Luke Richard Barnesmoore, University of British Columbia; Lucie Irene Ashley, University of British Columbia

CHAIR(S): Luke Richard Barnesmoore, University of British Columbia

**10:00** Lucie Irene Ashley, MA\*, University of British Columbia, UBC Urban Studies Lab, *Permaculture in Planning Theory and Practice.***10:10** Jana Spilkova\*, Charles University in Prague, *Producing places, cultivating communities: the newly nascent community gardens in Prague, Czechia.***10:20** Luke Richard Barnesmoore\*, UBC Urban Studies Lab,Department of Geography, University of British Columbia, *Conscious Evolution, Social Development and Environmental Justice.***10:35** Tim Leisman\*, University of North Carolina Greensboro, *Forming structures of participatory leadership: conscious evolution at the nexus between education and participation.***10:50** Nicole Rallis, MA\*, UBC Urban Studies Lab, Department of Geography, University of British Columbia, *Smart Cities Aren't Very Wise or Loving.*

Discussant(s): Luke Richard Barnesmoore, University of British Columbia

**5274. Racial economies and the everyday practices of low-wage worker movements II (Sponsored by Geographic Perspectives on Women Specialty Group, Economic Geography Specialty Group)****Room:** Simmons, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Yui Hashimoto, University of Wisconsin -

Milwaukee; Caroline Keegan, University of Georgia  
CHAIR(S): Yui Hashimoto, University of Wisconsin - Milwaukee**10:00** Megan Brown\*, University of Washington, *"I've Worked Really Hard on Myself To Just No End": Narratives of Self-Improvement and Collective Uplift among Fight for \$15 Worker Activists.***10:20** Jen Ayres\*, NYU, *"It's the Cause that Exploits Us": Worker Burnout and Organizing in Retail and Non-Profit Industries.***10:40** Virginia Parks\*, Occidental College, *Low-wage Atlas.***11:00** Philip Kelly\*, York University, *Performing Collective Responses to Precarity: Filipina Caregivers and the Artistic Production of Solidarity.*

Discussant(s): Rachel Brahinsky, University of San Francisco

**5276. Geospatial Health Research Symposium: Environmental Influences on Health (Sponsored by Geographic Information Science and Systems Specialty Group, Health and Medical Geography Specialty Group)****Room:** Wellesley, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Eric M. Delmelle, University of North Carolina at Charlotte; Mei-Po Kwan, University of Illinois at Urbana-Champaign; Michael J. Widener, University of Toronto

CHAIR(S): Christopher Uejio, Florida State University

**10:00** Christopher Uejio, PhD\*, Florida State University, *Climatic Influences on Salmonella Infections Across the United States.***10:20** Jaime E Hart, ScD, Channing Division of Network Medicine, Brigham and Women's Hospital and Harvard Medical School; Department of Environmental Health, Harvard T.H. Chan School of Public Health; Jeff D Yanosky, ScD, Department of Public Health Sciences, College of Medicine, Penn State; Francine Laden, ScD, Channing Division of Network Medicine, Brigham and Women's Hospital and Harvard Medical School; Department of Environmental Health, Harvard T.H. Chan School of Public Health; Christine M Albert, MD, Division of Preventative Medicine, Department of Medicine, Brigham and Women's Hospital and Harvard Medical School, *The Association Between Daily Temperature, Air Pollution, and Sudden Cardiac Death in Women.***10:40** Joseph H. Hoover\*, Community Environmental Health Program, Health Sciences Center, University of New Mexico; Eric Coker, Center for Environmental Research and Children's Health, School of Public Health, University of California Berkeley; Johnnye Lewis, Community Environmental Health Program, Health Sciences Center, University of New Mexico, *Identification and spatial clustering of metal mixtures in unregulated water sources.***11:00** Beth L Ziniti, PhD\*, Applied GeoSolutions LLC;

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Nathan Torbick, PhD, Applied GeoSolutions LLC;  
Ernst Linder, PhD, Department of Mathematics and  
Statistics, University of New Hampshire; Elijah W  
Stommel, MD, Department of Neurology, Dartmouth  
Medical School, *Assessing Spatial Regression Model  
Choices: A Case Study Investigating Harmful Algal  
Bloom Exposure and Amyotrophic Lateral Sclerosis  
Incidence.*

- 11:20** Mohamed Sakizadeh\*, Shahid Rajaei Teacher Training  
University; Fatemeh Mehrabi Sharafabadi,  
Jundishapur University of Medical Sciences; Hadi  
Ghorbani, University of Shahrood, *Spatial and health  
risk assessment of cadmium in plant and soil samples  
of an arid area.*

**5277. Applications of High-Resolution Spatial Data in Physical  
Geography and Biogeography II (Sponsored by Remote  
Sensing Specialty Group, Biogeography Specialty Group,  
Geomorphology Specialty Group)**

**Room:** Harvard, Marriott, Third Floor (Paper Session)

- ORGANIZER(S):** James T. Dietrich, Dartmouth College  
**CHAIR(S):** James T. Dietrich, Dartmouth College  
**10:00** Brenden McNeil\*, West Virginia University, *Tree canopy  
economics from high-resolution remote sensing.*  
**10:20** Austen Lorenz\*, San Francisco State University; Leonhard  
Blesius, Ph.D., San Francisco State University; Jerry  
Davis, Ph.D., San Francisco State University, *Object-  
based Image Analysis of Meadow Hydrogeomorphic  
Types Using LiDAR and Multispectral Imagery.*  
**10:40** Anthony D. Campbell\*, University of Rhode Island;  
Yeqiao Wang, University of Rhode Island, *High  
Spatial Resolution Remote Sensing for Mapping and  
Monitoring of Salt Marshes in Jamaica Bay, New York.*  
**11:00** Qiusheng Wu, Binghamton University, *Mapping  
Depressional Wetlands and Surface Water Pathways  
Using LiDAR data.*  
**11:20** Christine M Hladik, Ph.D.\*, Georgia Southern University,  
*Tidal marsh classification using multi-sensor data and  
the random forest classifier.*

**5279. The road we are travelling: the past, the present and the  
future for land systems science (Sponsored by Cultural and  
Political Ecology Specialty Group, Human Dimensions of  
Global Change Specialty Group, Geographies of Food and  
Agriculture Specialty Group)**

**Room:** Arlington, Marriott, Third Floor (Panel Session)

- ORGANIZER(S):** Richard J. Aspinall  
**CHAIR(S):** Richard J. Aspinall  
**Introducer:** Richard J. Aspinall  
**Panelists:** Kenneth R. Young, University of Texas at Austin;  
Burak Guneralp, Texas A&M University; Jacqueline  
Vadjunec, Oklahoma State University; Jane  
Southworth, University of Florida; Ariane De  
Bremond, University of Maryland

**5280. Geography and the Jewish Question (Sponsored by  
Geography of Religions and Belief Systems Specialty Group,  
Ethnic Geography Specialty Group)**

**Room:** Berkeley, Marriott, Third Floor (Paper Session)

- ORGANIZER(S):** Matthew Rosenblum  
**CHAIR(S):** Matthew Rosenblum  
**10:00** Bruce Arlan Phillips, PhD\*, Hebrew Union College,  
*Jewish Migration, Inter-marriage, and Communal  
Integration.*  
**10:15** Matthew Rosenblum\*, University of Kentucky, *What's so  
Jewish about Jewish Geography? A Critical Appraisal  
of the 'New' Spatial Turn in Jewish Studies.*  
**10:30** Ira M. Sheskin\*, University of Miami, *A Community  
in Transition: A Demographic Shift in the Jewish  
Population of Broward County.*  
**10:45** Maxim George Morris Samson\*, University of Leeds,  
*Competition or Cooperation? Jewish Day Schools,*

*Synagogues, and the (Re)construction of Young  
People's Jewish Identities in England.*

**5281. Financializing Rural Geographies I (Sponsored by Cultural  
and Political Ecology Specialty Group, Economic Geography  
Specialty Group)**

**Room:** Clarendon, Marriott, Third Floor (Paper Session)

- ORGANIZER(S):** Kelly Kay, London School of Economics;  
Miles Kenney-Lazar, Clark University  
**CHAIR(S):** Kelly Kay, London School of Economics  
**10:00** Natasha A. Watts\*, Geography Department, University of  
Cambridge, *Crops to Cash: Finance and farming in the  
Southern Highlands of Tanzania.*  
**10:20** Jacque (Jody) L. Emel\*, Clark University, *Compared to  
What? Assessing the Impacts of Financialization in  
Rural Areas.*  
**10:40** S. Ryan Isakson\*, University of Toronto, *The Agrarian  
Question of Financialized Risk Management in Tamil  
Nadu, India.*  
**Discussant(s):** Annette Desmarais, University of Manitoba

**5283. Meet the Editors- Cartography Journals (Sponsored by  
Cartography Specialty Group)**

**Room:** Exeter, Marriott, Third Floor (Panel Session)

- ORGANIZER(S):** Nicholas Chrisman, CaGIS  
**CHAIR(S):** Nicholas Chrisman, CaGIS  
**Panelists:** Nicholas Chrisman, CaGIS; Monica Wachowicz;  
Emmanuel Stefanakis, University of New Brunswick

**5284. SESSION TWO OF "STANDBY: Infrastructures between  
Mobility and Stillness" (Sponsored by Transportation  
Geography Specialty Group)**

**Room:** Fairfield, Marriott, Third Floor (Paper Session)

- ORGANIZER(S):** Laura Kemmer, University Hamburg; Annika  
Kuehn, University of Hamburg, Germany  
**CHAIR(S):** Laura Kemmer, University Hamburg  
**Introducer:** Vanessa Weber  
**10:05** Frank I. Mueller\*, University of Amsterdam, *Security-  
Encounters in Standby: The Case of Amsterdam's DNA  
Spray.*  
**10:25** Annika Kuehn\*, University of Hamburg, Germany,  
*Elements on Standby. The Latency of Contamination..*  
**10:45** Derek McCormack, Dr\*, University of Oxford,  
*Elemental infrastructures for atmospheric media:  
On stratospheric variations, value, and the standby  
commons.*  
**11:05** Vanessa Weber\*, Hamburg University, *Data on hold.  
Filtering the atmosphere.*  
**Discussant(s):** David Bissell, Australian National University

**5285. Society for Woman Geographers Fellows 2 (Sponsored by  
Geographic Perspectives on Women Specialty Group)**

**Room:** Salon H, Marriott, Fourth Floor (Panel Session)

- ORGANIZER(S):** Ellen R. Hansen, Emporia State University  
**CHAIR(S):** Ellen R. Hansen, Emporia State University  
**Discussant(s):** Aparna Parikh, Pennsylvania State University  
**Panelists:** Emily Bukowski, Syracuse University; Kalli F.  
Doubleday, University of Texas, Austin; Julia Marrs,  
Boston University

**5287. Spatial Data Science (Sponsored by Geographic Information  
Science and Systems Specialty Group, Cyberinfrastructure  
Specialty Group)**

**Room:** Salon J, Marriott, Fourth Floor (Paper Session)

- ORGANIZER(S):** Wenwen Li, Arizona State University; Trisalyn  
Nelson, Arizona State University  
**CHAIR(S):** Wenwen Li, Arizona State University  
**10:00** Yun Li\*, Yongyao Jiang; Chaowei Yang; Edward M  
Armstrong; Thomas Huang; David Moroni; Chris  
Finch; Lewis John McGibbney, *Recommend geographic  
datasets using metadata and user feedback.*  
**10:16** Cheng-Zhi Qin\*, Institute of Geographic Sciences &



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Natural Resources Research, CAS; Xue-Wei Wu, Institute of Geographic Sciences & Natural Resources Research, CAS; A-Xing Zhu, Institute of Geographic Sciences & Natural Resources Research, CAS, *Case-based method of using application context knowledge for drainage network extraction.*

- 10:32** Xiran Zhou\*, Arizona State University; Wenwen Li, Arizona State University, *A deep learning framework for analyzing satellite image to predict urban traffic vulnerability.*

- 10:48** Samuel Stehle\*, The Pennsylvania State University, *Geographic Data Science, Theory, and Black Boxes: Making sure that Evaluations do not 'Speak for Themselves'.*

- 11:04** Wenwen Li\*, Arizona State University, *A scalable cyberinfrastructure solution to support big data management and multivariate visualization of time-series sensor observation data.*

Discussant(s): Xuan Shi, University of Arkansas

**5288. Vegetation Dynamics II - Disturbances (Sponsored by Biogeography Specialty Group, Mountain Geography Specialty Group)**

*Room:* Salon K, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Parveen Kumar Chhetri, Texas A&M University; Rosemary Dwight, Texas A&M University

CHAIR(S): Daehyun Kim, University of Kentucky

- 10:00** Adam T. Naito, PhD\*, School of Natural Resources and the Environment, University of Arizona; Steven R. Archer, PhD, School of Natural Resources and the Environment, University of Arizona; Greg A. Barron-Gafford, PhD, School of Geography and Development, University of Arizona; Phil Heilman, PhD, Southwest Watershed Research Center, U.S. Department of Agriculture-Agricultural Research Service; Katharine I. Predick, PhD, School of Natural Resources and the Environment, University of Arizona; Heather L. Throop, PhD, School of Earth and Space Exploration and School of Life Sciences, Arizona State University, *Ecosystem Services on Managed Rangelands: A Watershed-Scale Evaluation of Trade-Offs.*

- 10:20** Kim C. DIVER\*, Wesleyan University; Tessa Hill, Wesleyan University; Ezra Steinfeld, Wesleyan University; Ryan Edgley, Colorado School of Mines; Emilie Sinkler, University of Alaska Fairbanks, *Impacts of fluctuating water levels on vegetation dynamics in a Great Lakes archipelago.*

- 10:40** Wenjie Ji\*, University At Buffalo, *Detection of the spatiotemporal patterns of beetle-induced tamarisk (*Tamarix spp.*) defoliation along Lower Rio Grande using Landsat TM images.*

- 11:00** Scott M. MacDonald\*, McGill University; Maria Strack, PhD, University of Waterloo; Ian B. Strachan, PhD, McGill University, *Spatiotemporal heterogeneity in carbon exchange at a restored peatland in western Canada.*

- 11:20** Daehyun Kim\*, University of Kentucky; Andrew C. Millington, Flinders University; Charles W. Lafon, Texas A&M University, *Disturbance after Disturbance: Two Hurricanes Impacted the Same Forest Plots within Three Years.*

**5290. Understanding challenges and opportunities for future food and nutrition security - II (Sponsored by Cultural and Political Ecology Specialty Group, Rural Geography Specialty Group, Geographies of Food and Agriculture Specialty Group)**

*Room:* Yarmouth, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Bridin Carroll, University College Dublin

CHAIR(S): Deirdre O'Connor, University College Dublin

- 10:00** Michael Hardman, BSc (Hons) PGCAP MA PhD FHEA FRGS\*, University of Salford; Graeme Sherriff, University of Salford, *Feeding Cities through Urban*

*Agriculture - A Critical Exploration of Micro and Macro Practice.*

- 10:15** Abel Chikanda\*, University of Kansas, *Feeding Cities of the Global South: The State of Food Insecurity in Harare, Zimbabwe.*

- 10:30** Kaitlyn Spangler\*, Virginia Polytechnic Institute & State University; Larry Gorenflo, PhD, Pennsylvania State University; Mohamed Kambi, Udzungwa Ecological Monitoring Center, *Assessing seasonal dietary variability and vulnerability in the Kilombero Valley.*

- 10:45** Bridin E. Carroll\*, University College Dublin; Aniek Hebinck, Wageningen University and Research Centre; Francesca Galli, Università di Pisa; Deirdre O'Connor, University College Dublin, *Food assistance initiatives as boundary spanning governance initiators?.*

- 11:00** Terry Marsden\*, Cardiff University; Ana Moragues Faus, Cardiff University; Roberta Sonnino, Cardiff University, *Re-building food systems: assemblages, infrastructures and restorative governance for the transformation.*

Discussant(s): Molly Anderson, Middlebury College

**5291. Geographies of Islamophobia (Sponsored by Cultural Geography Specialty Group)**

*Room:* Nantucket, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Carmen Teeple Hopkins, York University; Kawtar NAJIB, Newcastle University

CHAIR(S): Rhonda Itauui, Western Sydney University

- 10:00** Anne Ranek\*, Roskilde University and University of Arizona, *Is 'parallel society' bad for integration?.*

- 10:20** Carmen Teeple Hopkins\*, York University, *The "principle of neutrality" in Quebec and French laïcité debates and laws: The employment of veiled Muslim women.*

- 10:40** Kevin Mark Dunn\*, Western Sydney University; Ana-Maria Bliuc, Western Sydney University; Katie Blair, Western Sydney University, *Islamaphobia. A spatially appropriate concept for the times.*

Discussant(s): Anna Mansson McGinty, University of Wisconsin - Milwaukee; Kawtar NAJIB, Newcastle University

**5292. Aquatic resources: Water-based consumption, networks, safety and governance practices (Sponsored by Coastal and Marine Specialty Group)**

*Room:* Provincetown, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Carlos Balsas, University at Albany

CHAIR(S): Carlos Balsas, University at Albany

- 10:00** Harold Alan Perkins\*, Ohio University, *Can Native and Non-native Trout Co-Exist in the Face of Socio-ecological Uncertainty?.*

- 10:20** Tzu-Yi Lu\*, Department of Geography, National Taiwan University; Jehn-Yih Juang, Department of Geography, National Taiwan University, *Application of Artificial Neural Networks Model on Estimation of Carbon Dioxide Flux in Low Latitude Wetland Ecosystem..*

- 10:40** Lillian Brown\*, Indiana University, *Where do fish values come from?.*

- 11:00** Carlos Balsas\*, University at Albany, *Feeding Cities Without Oceans?.*

**5293. Rescaling Migration, Citizenship, and Rights II: Urban and Transnational Citizenship (Sponsored by Political Geography Specialty Group, Urban Geography Specialty Group, Socialist and Critical Geography Specialty Group)**

*Room:* Orleans, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Harald Bauder, Ryerson University; Jonathan Darling, University of Manchester

CHAIR(S): Harald Bauder, Ryerson University

- 10:00** Ben Rogaly\*, University of Sussex, *Re-Scaling Citizenship Struggles in Provincial Urban England.*

- 10:20** Yolande Pottie-Sherman\*, Memorial University of Newfoundland, *The politics of immigration in shrinking cities: Immigrant entrepreneurs, welcoming*



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*proclamations, and revitalization in the Rust Belt.*

- 10:40** Edward Howell\*, University of Oxford, *Making inflexible citizenship flexible? Flexible strategies of belonging among single citizenship holders: South Koreans in London, UK!*

- 11:00** Mathias Rodatz, Goethe-University Frankfurt, *Urban citizenship after the "summer of migration": the case of Germany.*

- 11:20** Anne Vlsser\*, University of California, Davis; Sheryl-Ann Simpson, Ph.D., University of California, Davis, *Spatial Determinants of Migrant Regularization Policies.*

**5294. Co-production of climate science for agricultural decision-making (Sponsored by Human Dimensions of Global Change Specialty Group, Climate Specialty Group, Geographies of Food and Agriculture Specialty Group)**

*Room:* Hyannis, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Ajay S. Singh, Purdue University; Tonya Haigh, National Drought Mitigation Center

CHAIR(S): Linda Prokopy, Purdue University

- 10:00** Linda S Prokopy\*, Purdue University, *Co-Production in Agricultural and Natural Resource Systems: An Overview.*

- 10:15** Katherine Browne\*, School of Natural Resources and Environment, University of Michigan; Maria Carmen Lemos, Ph.D, School of Natural Resources and Environment, The University of Michigan, *A Comparative Analysis of Coproduction in Differentiated Networks.*

- 10:30** Amber Saylor Mase, PhD\*, University of Wisconsin - Madison; Vikram Koundinya, PhD, University of Wisconsin - Extension, *Evaluating a climate information DST coproduction process: Outcomes and impacts for Midwestern ag advisors.*

- 10:45** Tonya Haigh\*, National Drought Mitigation Center, *The Map, the App, and the Graph: Farmers' Trust in, and Use of, Climate Information.*

- 11:00** Ajay S. Singh\*, Purdue University; Linda S Prokopy, PhD, Purdue University, *A Need for Closure on Climate Change: An assessment of farmers' perceptions of climate uncertainty and their willingness to adapt.*

- 11:15** Toni Klemm\*, University of Oklahoma; Renee A. McPherson, Ph.D., University of Oklahoma, *Developing Tailored Seasonal Climate Forecasts for Winter Wheat Producers in the United States Southern Great Plains.*

Discussant(s): Linda Prokopy, Purdue University

**5295. Spatiotemporal analysis of air pollution and public health II (Sponsored by Geographic Information Science and Systems Specialty Group, Spatial Analysis and Modeling Specialty Group, Health and Medical Geography Specialty Group)**

*Room:* Falmouth, Marriott, Fourth Floor (Paper Session)

ORGANIZER(S): Xiaolu Zhou, Georgia Southern University; Lixin Li; Weitian Tong

CHAIR(S): Lixin Li

- 10:00** Guofeng Cao\*, Texas Tech University; Ying Liu, Texas Tech University; Naizhuo Zhao, Texas Tech University; Kevin Mulligan, Texas Tech University, *High-Resolution Mapping of Ground-Level PM<sub>2.5</sub> Concentrations: A Random Forest-based Geostatistical Approach.*

- 10:20** Jia-Huei Chen\*, Chong-En Li; Nae-Wen Kuo, *Study on The Temporal and Spatial Distribution of Air Pollution in Taiwan.*

- 10:40** Angela Antipova\*, University of Memphis; Daniel Larsen, University of Memphis, *Analysis of the relationship between environmental exposure and maternal health in Shelby County, TN.*

- 11:00** Michael Jerrett, PhD\*, University of California, Los Angeles, *Comparing Alternative Measures of Green*

*Space Exposure for Health Effects Assessment.*

**5296. The Contact Zone I: Environments of Contact (Sponsored by Cultural and Political Ecology Specialty Group, Socialist and Critical Geography Specialty Group, Animal Geography Specialty Group)**

*Room:* Maine, Marriott, Fifth Floor (Paper Session)

ORGANIZER(S): Jenny R. Isaacs, Rutgers University

CHAIR(S): Jenny R. Isaacs, Rutgers University

Introducer: Jenny R. Isaacs

- 10:25** Helen F Wilson\*, University of Manchester, *Shocks, ruptures, and surprise: encounters and intervention in the contact zone.*

- 10:40** Greta Marchesi\*, Dartmouth College, *Agrarian Contact Zones: Microbes, Markets, and Soil Management for Lovers.*

- 10:55** Jake Fleming\*, University of Wisconsin-Madison, *Plants in the Contact Zone: The USDA and the Vegetal Politics of Grafting.*

- 11:10** Colin Robert Sutherland\*, York University, *Theorizing the burn: wildfire ecologies as contact zones.*

- 11:25** Sharon E. Wilcox, Ph.D.\*, University of Wisconsin-Madison, *Making Contact in Natural History: Alexander von Humboldt, Charles Darwin and El Rastro del Tigre.*

Discussant(s): Susan Ruddick, University of Toronto; Rosemary-Claire Collard, Concordia University; Mary Louise Pratt, New York University; Elizabeth DeLoughrey, UCLA

**5297. The Aesthetics of Neighborhood Renewal: Exclusivity Through and by Design**

*Room:* Massachusetts, Marriott, Fifth Floor (Paper Session)

ORGANIZER(S): Siobhan Gregory; Lisa Berglund, University of California - Los Angeles

CHAIR(S): Lisa Berglund, University of California - Los Angeles

- 10:00** Ryan Thomas Devlin, Ph.D.\*, John Jay College, *Rethinking Informal Urbanism in the United States: Theories, Practice, and New Approaches.*

- 10:20** Lisa Berglund\*, University of California - Los Angeles, *Excluded by Design: The Exploitation of Poverty Knowledge as an Object of Urban Design in the Redevelopment of Detroit Neighborhoods.*

- 10:40** Siobhan Gregory\*, Wayne State University, *"Detroit is magical. It's a little bit of everything." Promotion and Image in "Renewing" Detroit Neighborhoods.*

- 11:00** Laura Browder, Professor of American Studies\*, University of Patrick Bond, University of the Witwatersrand, *Race, culture, capital flows and truncated gentrification in Richmond and Durban.*

**5298. Logistical Lifeworlds II: An Interdisciplinary Panel (Sponsored by Political Geography Specialty Group, Socialist and Critical Geography Specialty Group, Economic Geography Specialty Group)**

*Room:* New Hampshire, Marriott, Fifth Floor (Panel Session)

ORGANIZER(S): Wesley Llewellyn Attewell, The University of Toronto; Martin Danyluk, University of Toronto

CHAIR(S): Martin Danyluk, University of Toronto

Panelists: Mimi Sheller, Drexel University; Adam Moore, UCLA; Deborah Cowen, University of Toronto; Juan David De Lara, University of Southern California; A. Naomi Naomi Paik, University of Illinois, Urbana-Champaign

## SUNDAY, April 9 • 11:50 AM - 2:00 PM • 5300

### 2017 AAG Awards Luncheon

Sunday, April 9, 11:50 a.m. - 2:00 p.m.

Room: *Constitution Ballroom, Sheraton, Second Floor*

Join colleagues and friends in honoring recipients of AAG Honors and other awards and prizes. The Awards Luncheon will be held on Sunday, April 9 in the Constitution Ballroom of the Sheraton Hotel from 11:50 a.m. - 2:00 pm.

The following Honors will be presented:

*AAG Lifetime Achievement Honors*

Ruth Fincher, University of Melbourne

David Robinson, Rutgers University

*AAG Distinguished Scholarship Honors*

Michael Storper, University of California, Los Angeles

Patrick Bartlein, University of Oregon

*AAG Ronald F. Abler Distinguished Service Honors*

Kent Mathewson, Louisiana State University

Julie Winkler, Michigan State University

*AAG Distinguished Teaching Award*

Michael Pretes, University of Northern Alabama

Other awards that will be presented at the Luncheon include:

AAG Community College Awards, AAG Dissertation, and Research Grants, AAG Marcus Fund for Physical Geography, J. Warren Nystrom Dissertation Award, Marble-Boyle Undergraduate Achievement Awards, AAG Globe and Meridian Book Awards, AAG Program Excellence Award, AAG Susan Hardwick Excellence in Mentoring Award, Harold Rose Award for Anti-Racism Research and Practice, Stan Brunn Award for Creativity in Geography, Humboldt Award for Enduring Scholarship in Geography, and AAG Honorary Geographer, Atlas Award, and Presidential Achievement Award.

Additionally, 50-year AAG members and recipients of Specialty Group awards and honors will be recognized during the Luncheon.

## SUNDAY, April 9 • 2:00 PM - 3:00 PM

### AAG Business Meeting - Special Event

Sunday, April 9, 2:00 p.m. - 3:00 p.m.

Room: *Fairfax, Sheraton, Third Floor*

AAG officers will present annual reports. All are welcome to attend.

**SUNDAY, April 9 • 2:00 PM - 3:40 PM • 5400****5406. Geographies of Aging, Health and Health Care 3 (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme, Health and Medical Geography Specialty Group)***Room:* Room 107, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Mark W. Rosenberg, Queen's University; Kyle Plumb, Queens University; Jessica Finlay, University of Minnesota

CHAIR(S): Kyle Plumb, Queens University

**2:00** Hamish Robertson\*, University of NSW; Nick Nicholas, The Demographer's Workshop; Joanne Travaglia, PhD, University of Technology Sydney; Andrew Georgiou, PhD, Macquarie University; Andrew Hayen, PhD, University of Technology Sydney, *Aging and Cognition in Australia: A Spatial Dashboard Approach.***2:20** Prince Michael Amegbor, M.Phil\*, Department of Geography & Planning, Queen's University, Kingston, ON; Mark W. Rosenberg, Ph.D, Department of Geography & Planning, Queen's University, *Access And Use Of Dental Services In Alberta, Manitoba, And Newfoundland: A Comparative Analysis.***2:40** JieLan Xu\*, University of Toronto, *Neighborhood context of aging-in-place: mapping the spatial patterns of aging in Canada.***3:00** Qiuyi Zhang, MS\*, Department of Geography, University at Buffalo, Buffalo, NY; Jessica L. Gilbert, Department of Geography, University at Buffalo, Buffalo, NY; Zhu Jin, MS, PhD Candidate, Department of Geography, University at Buffalo, Buffalo, NY; Mary E. Northridge, MPH, PhD, Department of Epidemiology & Health Promotion, New York University College of Dentistry, New York; Carol Kunzel, PhD, Section of Population Oral Health, Columbia University College of Dental Medicine, New York, NY; Hua Wang, PhD, Department of Communication, University at Buffalo, Buffalo, NY; Sara S. Metcalf, PhD, Department of Geography, University at Buffalo, Buffalo, NY, *Modeling the Dynamics of Oral Health Disparities in Aging Adult Populations.***3:20** Pierre-Marie CHAPON\*, Efferve'sens, University of Lyon; Kévin PHALIPPON\*, Guillaume PETIT, *The importance of assessing the environment to determine the most suitable location for seniors' residences so as to adjust the supply to the needs..***5407. Land Rights and Colonialism (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme, Ethics, Justice, and Human Rights Specialty Group, Indigenous Peoples Specialty Group)***Room:* Room 108, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): RDK Herman, National Museum of the American Indian

CHAIR(S): Nicholas L. Padilla, University of Wisconsin-Milwaukee

**2:00** Maira Irigaray\*, University of Florida, *Between Connections and Disconnections: Indigenous rights & Resistance in the Amazon Rainforest: The Mundurucu People and the Endogenous Ipereg Ayu Movement Case.***2:20** Michael J. Dangerfield, FRGS\*, University of Oxford, *ILO Convention 169 and the private sector: Understanding the evolving 'second-life' of the world's only binding convention on indigenous rights.***2:40** Susana Estela Valle Garcia\*, UNAM; Enrique Pérez Campuzano, Instituto de Geografía Universidad Nacional Autónoma de México, *Environmental policies, conservation strategies and indigenous territories in Lacandon Jungle, México.***3:00** Nicholas L. Padilla\*, University of Wisconsin-Milwaukee, *Decolonizing nature and liberating Madre Tierra - persistent Southern natures.***5408. Waters of Life: Hydrology and Food Production (Sponsored by Water Resources Specialty Group, Geographies of Food and Agriculture Specialty Group)***Room:* Room 109, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): RDK Herman, National Museum of the American Indian

CHAIR(S): Sara Elizabeth Eshleman, University of Texas - Austin

**2:00** Erin Dorothea Dascher, Ph.D. Candidate\*, Texas State University - San Marcos, *Environmental and Anthropogenic Controls on community composition of freshwater mussels in the Guadalupe - San Antonio River System.***2:20** Jonathan Lowell\*, University of Texas, *Spinach Assemblages.***2:40** Oguz Sariyildiz\*, Kentucky State University; Buddhi Gyawali, KSU; Ken Semmens, Kentucky State University, *Trout Farm Feasibility by Using Coal Mine Outflow.***3:00** Meng Li\*, Nanjing University of Information Science and Technology; Qian Yu, University of Massachusetts-Amherst; Ronghao Chu, Nanjing University of Information Science and Technology; Shuanghe Shen, Nanjing University of Information Science and Technology, *Water stress monitoring and its effects on summer maize using vegetation index information and non-rectangular hyperbolic based model.***3:20** Sara Elizabeth Eshleman\*, University of Texas - Austin; Colin Doyle, University of Texas - Austin; Samantha Krause, University of Texas - Austin; Timothy Beach, University of Texas - Austin; Ann-Marie Jacoby, Georgetown University; Sheryl Luzzadder-Beach, University of Texas - Austin; Thomas Guderjan, University of Texas - Tyler, *Exploring the Rio Hondo: traversing an understudied river and borderland.***5409. Application of GIS and Geospatial Studies in Sub-Saharan Africa (Sponsored by Africa Specialty Group)***Room:* Room 110, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Joseph Terzungwe Zume, Shippensburg University; Amber Murrey, Clark University

CHAIR(S): Johnathan B. Bascom, Calvin College

**2:00** Richard Ohwofasah Djukpen\*, Geospatial Data & Research Services, Neenah WI, *Geospatial cluster analysis and geo-visualization of infectious diseases in Nigeria.***2:20** Kolawole T. Gbadamosi, PhD\*, Department of Transport Management Technology, Federal University of Technology, Akure, Ondo State, *Spatiotemporal Analysis of Road Crashes Involving Truck Operation in Nigeria.***2:40** Kevin M. Mwenda\*, University of California, *Fine-Scale Spatial Modelling of Child Undernutrition in Kenya.***3:00** Brandon Fabian Louw, BA(Ed) Wits; ICT (Cambridge)\*, St. John's College, *Empowering Learners to Master Geographical Information Systems (GIS) as part of the Geography Curriculum in South African Schools.***3:20** Johnathan B. Bascom\*, Calvin College, *Creating Cartographic Authors Using Storytelling Maps .***5410. Conservation and Culture: Constructs and Conflicts (Sponsored by Environmental Perception and Behavioral Geography Specialty Group)***Room:* Room 111, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): RDK Herman, National Museum of the American Indian

CHAIR(S): Josephine Chambers, University of Cambridge

**2:00** Margarida Queiros\*, Universidade de Lisboa - IGOT, *Disengagements between natural resources management policies and society's attitudes towards environmental conservation in Portugal.***2:20** Stacey Mack, PhD(c)\*, SUNY-ESF, *Applying the Social-Ecological Systems Lens to Natural Resource*



**SUNDAY, April 9 • 2:00 PM - 3:40 PM • 5400***Management in Pennsylvania.*

**2:40** Tripti Borah\*, *Nyishi Tribe of Arunachal Pradesh and Hornbill Conservation.*

**3:00** Josephine Chambers\*, University of Cambridge, *The Pursuit of 'Win-win' Results for Forests and People in Peru: Probing the Gap between Theory and Practice.*

**5411. Economic Impact and Social Cost of Climate Change and Carbon Reduction 1**

*Room:* Room 200, Hynes, Second Level (Paper Session)

ORGANIZER(S): Xiangzheng Deng, Institute of Geographic Sciences and Natural Resources Research, CAS

CHAIR(S): Yuping Bai

**2:00** Xiangzheng Deng\*, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences; Center for Chinese Agricultural Policy, Chinese Academy of Sciences; Li Dan, The Institute of Atmospheric Physics, Chinese Academy of Sciences; Qian Ye, Beijing Normal University; Zhao Hua Wang, Beijing Institute of Technology; Yu Liu, Institute of science and technology policy and management science, Chinese Academy of Sciences; Fan Zhang, Beijing Normal University; Wei Qi, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences; Center for Chinese Agricultural Policy, Chinese Academy of Sciences; Guofeng Wang, Beijing Forestry University; Pei Wang, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences; Center for Chinese Agricultural Policy, Chinese Academy of Sciences; Yuping Bai, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences; Center for Chinese Agricultural Policy, Chinese Academy of Sciences, *Initiative on Social and Economic Dimensions on Climate Change and Carbon Reduction.*

**2:12** Qian Zhang\*, Institute of Geographic Sciences and Natural Resources Research; Feng Wu, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences; Chen Gao, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences; Xiangzheng Deng, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, *How livable is the landscape when urban flooding comes? An assessment of Chinese mega cities based on an emergy approach.*

**2:24** Zhanqi Wang\*, *Carbon effect analysis and its accounting of land reclamation projects from different geomorphic type region? A case study of Hubei province.*

**2:36** Yu Liu\*, Chinese Academy of Sciences, *Assessment of Economic Impact of Emission Trading Schemes in China? Based on a Single Country CGE Model.*

**2:48** Qian Ye\*, Beijing Normal University; Na Ying, Beijing Normal University; Zhangang Han, Beijing Normal University; Qinghua Chen, Beijing Normal University, *Implication of Spatial Distribution of CO<sub>2</sub> on Global Climate Change Adaptation.*

**3:00** Anlu Zhang\*, College of Land Management, Huazhong Agricultural University, *A spatiotemporal analysis of rural-urban construction land markets in Nanhai, Pearl River Delta, China.*

**3:12** Li Dan, Ph.D.\*, Institute of Atmospheric Physics, Chinese Academy of Sciences; Jinjun Ji, Institute of Atmospheric Physics, Chinese Academy of Sciences; Jing Peng, Ph.D., Institute of Atmospheric Physics, Chinese Academy of Sciences, *The climate effect of carbon cycle using coupled models.*

**3:24** Min Song\*, Zhongnan University of Economics and Law, *Fuzzy evaluation of the ecological well-being changes of the residents before and after the rural-urban land conversion: A case study of Hubei Province.*

**5412. New Farmer Subjectivities and the Meaning of 'Good' Farming 2 (Sponsored by Geographies of Food and Agriculture Specialty Group)**

*Room:* Room 201, Hynes, Second Level (Paper Session)

ORGANIZER(S): Julia Laforge, University of Manitoba; Charles Zalman Levkoe, Wilfrid Laurier University

CHAIR(S): Charles Zalman Levkoe, Wilfrid Laurier University

**2:00** Luke Anthony Hingtgen, M.A.\*, DePaul University, *The Invisible Labour of 'Good' Farming.*

**2:20** Lucas J.C. Bramberger, Pursuing MA\*, University of Guelph; Evan D.G. Fraser, Professor, University of Guelph, *Production in Alternative Agriculture: Understanding labour on certified organic farms in Ontario, Canada.*

**2:40** Kathleen Hilimire, Ph.D.\*, Fort Lewis College, *"Soil Health is the Key": Beginning Farmers' Attitudes Towards Water Conservation in the Western United States.*

**3:00** Bradley Jones, Washington University in St. Louis, *Cultivating Good Food and Good Farmers: On Prefiguration and the Politics of Possibility in Agrarian America.*

Discussant(s): Gavin Dandy, Everdale Organic Farm and Environmental Learning Centre

**5413. Approaches in Understanding Urban Precarity**

*Room:* Room 202, Hynes, Second Level (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Mathieu Charron, Université du Québec en Outaouais

**2:00** Brince Robert Jones\*, University of North Texas; Chetan

Tiwari, PhD, University of North Texas; Susie

Ramisetty-Mikler, PhD, University of North Texas;

Joseph Oppong, PhD, University of North Texas, *A*

*Data Driven Approach to Allocating Patrol Officers in Denton, Texas.*

**2:20** Hui Luan\*, University of Waterloo; Matthew Quick, University of Waterloo; Jane Law, University of Waterloo, *A spatial zero-inflated Poisson model for analyzing violent crime data with zero-inflation.*

**2:40** Mathieu Charron\*, Université du Québec en Outaouais, *The spatial distribution of crime in Ottawa-Gatineau.*

**5414. China: Environmental Issues**

*Room:* Room 203, Hynes, Second Level (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Chee Keong KHOO, City University of Hong Kong

**2:00** Yongbin ZHU\*, Institute of policy and management, Chinese Academy of Sciences; Shiqi Wang; Zheng Wang, *Implications of INDCs on global GHG emissions and equity in burden sharing.*

**2:20** Weihong Li\*, State Key Laboratory of Desert and Oasis Ecology, Xinjiang Institute of Ecology and Geography, Chinese Academy of Sciences; Dong Cui, College of Biology and Geography, Yili Normal University / Institute of Resources and Ecology; Dalong Li, State Key Laboratory of Desert and Oasis Ecology, Xinjiang Institute of Ecology and Geography, Chinese Academy of Sciences, *Soil physicochemical properties variations and soil erosion assessment in Ili Valley.*

**2:40** Bo Yu\*, Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences; Fang Chen, Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, *A method for landslide detection from large-scale Landsat8 image.*

**3:00** Yuan Yuan\*, Northwestern Polytechnical University; Guoping LI, Peking University; Tieshan SUN, Peking University; Qiangmin XI, Nankai University, *The Theoretical Model and Empirical Analyses on the Effect of Industrial Structure on Regional Carbon Emission.*

**3:20** Chee Keong KHOO\*, City University of Hong Kong, *Cost-Benefit Analysis of Green Building Technologies for the Improvement of Living Quality in Public Housing in Hong Kong.*



**SUNDAY, April 9 • 2:00 PM - 3:40 PM • 5400****5415. Visitors, Art, Food and Creativity on the edge: Overcoming Path Dependency and other Challenges (Sponsored by Recreation, Tourism, and Sport Specialty Group)**

- Room:** Room 204, Hynes, Second Level (Paper Session)  
 ORGANIZER(S): Dimitri Ioannides, Mid-Sweden University  
 CHAIR(S): Dimitri Ioannides, Mid-Sweden University  
**2:00** Dimitri Ioannides\*, Mid-Sweden University, *Legacies of path dependence on the edge: The case of Greenland.*  
**2:20** Arie Stoffelen\*, University of Leuven, Belgium; Dominique Vanneste, University of Leuven, Belgium, *The role of history and identity discourses in cross-border tourism destination management: The case of Vogtland, Germany.*  
**2:40** Evangelia Petridou\*, Mid Sweden University; Dimitri Ioannides, Professor, Mid Sweden University, *Konstgödnig: Co-producing Art in the Outskirts of the World.*  
**3:00** Egbert Van Der Zee\*, University of Leuven; Pepijn Olders, University of Amsterdam, *Re-inventing the wheel: resilience, revitalization and reconnecting mature tourist destinations through grassroots initiatives.*  
**3:20** Maria Del Pilar Leal Londoño\*, Ostelea School of Tourism and Hospitality, Grit Eae-Ostelea, *Wine & Sex: Innovative Business Strategies In Food Tourism.*

**5417. The geographies of rewilding**

- Room:** Room 206, Hynes, Second Level (Paper Session)  
 ORGANIZER(S): Jamie Lorimer, University of Oxford; Caitlin DeSilvey, University of Exeter  
 CHAIR(S): Heather Swanson, Aarhus University  
**2:00** Jamie Lorimer\*, University of Oxford, *Probiotic environmentalities: rewilding with wolves and worms.*  
**2:20** Kim Ward, Dr\*, Plymouth University; Kim Jade Ward, Dr, Plymouth University; Jonathan Prior, Dr, Cardiff University, *'Licensed' and 'unruly' beavers: exploring the biopolitical geographies of rewilded beavers in Scotland.*  
**2:40** Harlan Morehouse, University of Vermont, *Rewilding: For natures past, for environments to come?.*  
**3:00** David Havlick\*, University of Colorado - Colorado Springs, CO, *Fish Stories: The Rewilding of Militarized Landscapes and Endangered Species.*  
**3:20** Caitlin DeSilvey\*, University of Exeter; Nadia Bartolini, University of Exeter; Bárbara Carvalho, ACOA (Friends of the Cõa Museum and Archaeological Park), *Rewilding Time: Future-pasts in the Vale do Cõa.*

**5419. Economic geography and urban theory: Emerging directions**

- Room:** Room 210, Hynes, Second Level (Paper Session)  
 ORGANIZER(S): Padraig Carmody, University of Johannesburg; James T. Murphy, Clark University  
 CHAIR(S): Padraig Carmody, University of Johannesburg  
**2:00** Sergio Montero\*, Universidad De Los Andes; Karen Chapple, University of California, Berkeley, *Peripheral Regions, Fragile Governance: Local Economic Development from Latin America.*  
**2:20** Nicholas Revington\*, University of Waterloo; Margaret Ellis-Young, University of Waterloo, *Illuminating the Shadows of the Metropolis: A Small-Cities Perspective on Planetary Urbanization.*  
**2:40** Luca D'Acci\*, Erasmus University Rotterdam; Frank van Oort, Erasmus University Rotterdam, *The punctiform city: a functional perspective.*  
**3:00** James T. Murphy\*, Clark University; Padraig Carmody\*, University of Johannesburg, *African Cities in Transition: Immanent Challenges to Generative Urbanism.*  
 Discussant(s): Garth Andrew Myers, Trinity College

**5421. Urban informality in Latin America I (Sponsored by Latin America Specialty Group)**

- Room:** Room 301, Hynes, Third Level (Paper Session)  
 ORGANIZER(S): Mara Cristina Nogueira Teixeira, London School of Economics; Pablo Javier Navarrete Hernandez, London School of Economics  
 CHAIR(S): Mara Cristina Nogueira Teixeira, London School of Economics  
**2:00** Pablo Javier Navarrete Hernandez\*, London School of Economics, *Unleashing Street Vendors Potential: Supporting Street Markets Upgrade in Santiago de Chile.*  
**2:20** Vitor Pessoa Colombo\*, Osservatorio dello Sviluppo Territoriale - Accademia di Architettura di Mendrisio, *From Fordism to Post-Fordism: A change of paradigm in São Paulo and its impact on the metropolis' social fabric.*  
**2:40** Cynthia Goytia\*, Universidad Torcuato Di Tella, *Housing Affordability: The Land Use Regulation Link to Informal Tenure In Developing Countries.*  
**3:00** Mario Bruzzone\*, University of Wisconsin-Madison, *The makings of migration economies: From Central American transit-migrants to labor-power.*

**5423. Agritourism and constructing the idea of farming: What drives the process?**

- Room:** Room 303, Hynes, Third Level (Paper Session)  
 ORGANIZER(S): Lucius Hallett, IV, Western Michigan University  
 CHAIR(S): Lucius Hallett, IV, Western Michigan University  
**2:00** Christopher Brehme\*, Keene State College, *Peace, Maps, and Understanding: A Participatory GIS Approach to Protecting Tranquility in the English Countryside.*  
**2:20** Aron Massey\*, West Liberty University, *Sour Grapes: House Bill 2 and the potential impacts on wine tourism in North Carolina.*  
**2:40** Adam Keul, PhD\*, Plymouth State University; Brian Eisenhauer, PhD, Plymouth State University, *Cannabis Tourism in Colorado: New Recreational Spaces in the High Country.*  
**3:00** William C. Martin, PhD Candidate\*, Colorado State University; Alan Bright, PhD, Colorado State University, *Tourism Motivation and Narrative-Driven Auto Tour Itineraries.*

**5424. Tourism, Transit, and Patterns of In-Out Migration**

- Room:** Room 304, Hynes, Third Level (Interactive Short Paper Session)  
 ORGANIZER(S): Program Committee  
 CHAIR(S): LI YATING, Capital Normal University  
**2:00** Christopher A. McCurley\*, LSU, *Espiritismo: The fusion of cultures and ideas.*  
**2:09** Hao Wang\*, Central University of Finance and Economics; Kai Zhang, Central University of Finance and Economics; Xing Wang, National Institute for Occupational Safety & Health, *A System Dynamics Model for Improving Urban Taxi Dispatching based on Taxi OD Data.*  
**2:18** Aitor Abaunz, Research Group on Mobility, Transportation and Territory (GEMOTT) - Department of Geography - Universitat Autònoma de Barcelona; Daniel Montané, Research Group on Mobility, Transportation and Territory (GEMOTT) - Department of Geography - Universitat Autònoma de Barcelona; Xavier Delclòs\*, Research Group on Mobility, Transportation and Territory (GEMOTT) - Department of Geography - Universitat Autònoma de Barcelona; Oriol Marquet, Center for Geospatial Analytics, Department of Parks, Recreation and Tourism Management College of Natural Resource, North Carolina State University; Carme Miralles-Guasch, Institute of Environmental Science and Technology (ICTA) - Universitat Autònoma de Barcelona, *Walking to the Station in a*

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*Suburban Commute: The Autonomous University of Barcelona as a Case Study.*

- 2:27** Niels Wardenier, Universiteit Utrecht; Luk Knapen, Dr., Universiteit Hasselt; Elenna R Dugundji, Dr.\*, CWI, *On Choice Set Generation for Bicycle Routes.*
- 2:36** Tiana F. Fain\*, California State University - Long Beach, *Desert Space, Place, & Art: Site-Specific Art Installations in California Desert Communities.*
- 2:45** Monika Maciejewska\*, Research Group on Mobility, Transportation and Territory, Geography Department, Universitat Autònoma de Barcelona; Guillem Vich, Research Group on Mobility, Transportation and Territory, Geography Department, Universitat Autònoma de Barcelona; Oriol Marquet, Center for Geospatial Analytics, Department of Parks, Recreation and Tourism Management, North Carolina State University; Carme Miralles-Guasch, Institute of Environmental Science and Technology, Universitat Autònoma de Barcelona, *Gendered Daily Mobility Patterns in Warsaw, Poland.*
- 2:54** Emily Pitman\*, University of Washington, *Evaluation of Bus Routing through Mobile Data Collection.*
- 3:03** LI YATING\*, Capital Normal University, *Research on Constraints and Optimization Measures of Regional Tourism Integration in Beijing-Tianjin-Hebei Region.*
- 3:12** Hui Jin\*, Capital Normal University, *Research on the Relativity of High-speed Railway and Urban Tourism Development -----Based on example of Beijing-Shanghai Railway.*
- 3:21** Mario Andrés Pezoa\*, Pontificia Universidad Católica de Chile, *New geographies of immigration. New destinations in southern Latin America..*

**5425. Understanding Extreme Heat (Sponsored by Hazards, Risks, and Disasters Specialty Group, Health and Medical Geography Specialty Group, Energy and Environment Specialty Group)**

*Room:* Room 305, Hynes, Third Level (Paper Session)

- ORGANIZER(S): Paul Chakalian, Arizona State University; David M. Hondula, Arizona State University  
CHAIR(S): Paul Chakalian, Arizona State University
- 2:00** Babak J Fard, Northeastern University; Mary Elizabeth Warner\*, Northeastern University; Auroop R Ganguly, Associate Professor, Northeastern University; Hanieh hassanzadeh, Associate Research Scientist, Northeastern University, *Adaptation and Mitigation Strategies for Extreme Temperatures in the Town of Brookline.*
- 2:20** Jihoon Jung\*, Florida State University; Christopher K Uejio, Florida State University; Chris Duclos, Florida Department of Health; Melissa Jordan, Florida Department of Health, *Local Extreme Heat Vulnerability in Florida.*
- 2:40** Paul Chakalian, MA\*, Arizona State University; Elizabeth C. Kurtz, MA\*, Arizona State University, *New Vulnerabilities in Power-on vs. Power-off Extreme Heat Events.*
- 3:00** Arie Manangan\*, CDC, *Validation of a Climate and Health Vulnerability Assessment - Determining an Association Between a Heat Vulnerability Index and Actual Incidence of Heat-Related Illness in Georgia.*
- 3:20** Zoe A. Hamstead\*, University At Buffalo, *Collaborative climate action planning for addressing vulnerability to extreme heat.*

**5426. Introducing Urbanisation: A new journal queries Southern Urban Theory and Practice**

*Room:* Room 306, Hynes, Third Level (Panel Session)

- ORGANIZER(S): Gautam Bhan, Indian Institute for Human Settlements; Neha Sami, Indian Institute for Human Settlements  
CHAIR(S): Gautam Bhan, Indian Institute for Human Settlements

Discussant(s): Susan Parnell, University of Cape Town

Panelists: Gautam Bhan, Indian Institute for Human Settlements; Neha Sami, Indian Institute for Human Settlements; Amlanjyoti Goswami, Indian Institute for Human Settlements (IHS)

**5428. Defining Health Knowledge and Attitudes (Sponsored by Population Specialty Group, Africa Specialty Group, Health and Medical Geography Specialty Group)**

*Room:* Room 308, Hynes, Third Level (Paper Session)

- ORGANIZER(S): Leo Charles Zulu, Michigan State University; Imelda K. Moise, PhD., MPH, University of Miami  
CHAIR(S): Imelda K. Moise, PhD., MPH, University of Miami
- 2:00** Tricia Caroline Sa Gomes Hutchings\*, University of Miami, *Assessing Zika-Related Knowledge, Attitudes, And Practices (KAP) Among Miami-Dade Residents.*
- 2:20** Imelda K. Moise, PhD., MPH\*, University of Miami; Imelda K Moise, University of Miami, *Geographical analysis of neighborhood domestic violence offenses on birth outcomes among Medicaid women in Miami-Dade County.*
- 2:40** Leo Charles Zulu, Dr. \*, Michigan State University, *Addressing competing interests, reversing a discourse of failure: Experiences from developing and promoting a national sustainable charcoal strategy in Malawi..*
- 3:00** Samuel J. Franco\*, University of Miami, Coral Gables, FL; Imelda K. Moise, PhD., MPH, University of Miami, Coral Gables, FL, *Mapping intra-district malaria risk using high resolution Landsat satellite imagery: a case study of post conflict Burundi.*

Discussant(s): Leo Charles Zulu, Michigan State University

**5429. Geographies of Negative Emissions**

*Room:* Room 309, Hynes, Third Level (Panel Session)

- ORGANIZER(S): Holly Buck, Cornell University  
CHAIR(S): Holly Buck, Cornell University  
Introducer: Holly Buck  
Discussant(s): Eleanor Andrews, Cornell Development Sociology  
Panelists: Kevin Surprise, Framingham State University; Joel D Wainwright, The Ohio State University; Youjin Brigitte Chung, Cornell University; Duncan McLaren, Lancaster Environment Centre

**5430. Decolonizing Water: Indigenous water politics, resource extraction, and settler colonialism (Sponsored by Energy and Environment Specialty Group, Indigenous Peoples Specialty Group)**

*Room:* Room 310, Hynes, Third Level (Paper Session)

- ORGANIZER(S): Karen Bakker, University of British Columbia; Glen Coulthard, University of British Columbia  
CHAIR(S): Karen Bakker, University of British Columbia
- 2:00** Nicole J. Wilson\*, University of British Columbia; Nicole J. Wilson, IRES, UBC, *'Respecting water': Relationality and resisting the ontological violence of settler colonialism in water governance.*
- 2:20** Alex Latta\*, Wilfrid Laurier University, *Decolonizing Water Stewardship in the Northwest Territories.*
- 2:40** Graham EH Strickert\*, University of Saskatchewan; Lori E.A. Bradford, University of Saskatchewan, *Blending Science, Traditional Knowledge and Art - A journey in decolonizing research..*
- 3:00** Karen Bakker, Professor\*, University of British Columbia, *First in Time, but not First in Right: Decolonizing Indigenous Water Governance in British Columbia, Canada.*

**5432. Transportation and Geospatial Modeling**

*Room:* Room 312, Hynes, Third Level (Paper Session)

- ORGANIZER(S): Program Committee  
CHAIR(S): Joseph M. Donahoe, South Dakota State University
- 2:00** Guojun Peng\*, University of Tennessee; Shih-Lung Shaw, University of Tennessee; Ling Li, University of

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Wuhan; ZhiXiang Fang, University of Wuhan, *A GIS-based Relative Navigation System for Monitoring the Overall Ship Movement Situation*.

**2:20** Yuqin Jiang\*, University of South Carolina, *Measuring Multi-Modal accessibility in Urban Area using Big Data*.

**2:40** Ya Han\*, Louisiana State University, *Resilience of Transportation Network to the Extreme Climate Events in the East Baton Rouge Parish*.

**3:00** Yung-Ming Tsai\*, Undergraduate Student of Department of Geography, National Taiwan Normal University, *Spatio-Temporal Hotspot Analysis of Traffic Flow On Highway*.

**3:20** Joseph M. Donahoe, B.S. Geography\*, South Dakota State University, *Identifying Traffic Accident Hot Spots and Site Causes; Brookings, South Dakota*.

**5464. Groundwater Monitoring (Sponsored by Water Resources Specialty Group)**

*Room:* Boylston, Marriott, First Floor (Paper Session)

ORGANIZER(S): RDK Herman, National Museum of the American Indian

CHAIR(S): Marzia Tamanna

**2:00** Mostafa AbuBakr\*, Boston University; Eman Ghoneim, University of North Carolina in Wilmington (UNCW); Farouk El-Baz, Boston University, *Applications of Radar and Thermal Remote Sensing to Identifying Renewable Groundwater Resources in Northern Sinai Peninsula: Implications to Sustainable Development*.

**2:20** Jacob D. Petersen-Perlman\*, Water Resources Research Center, University of Arizona; Sharon B. Megdal, Water Resources Research Center, University of Arizona, *Efforts Towards Transboundary Groundwater Assessment and Governance: Transboundary Aquifer Assessment Program in Arizona and Sonora*.

**2:40** William Quincy Abrams\*, University of North Carolina - Wilmington; Eman Ghoneim, Associate Professor of Geography, University of North Carolina Wilmington; Roger Shew, Lecturer of Geology, University of North Carolina Wilmington; Todd LaMaskin, Assistant Professor of Geology, University of North Carolina Wilmington; Khalid Al Bloushi, Assistant Professor of Geology, United Arab Emirates University; Farouk El Baz, Director of the Center For Remote Sensing, Boston University, *Delineation of groundwater potential in the northern United Arab Emirates and Oman using geospatial technologies*.

**3:00** Marzia Tamanna\*, University of Rhode Island; Soni M. Pradhanang, University of Rhode Island; Art Gold, University of Rhode Island; Kelly Addy, University of Rhode Island; Philippe Vidon, SUNY ESF; Randall G. Williams, USDA ARS, *Riparian Zone Nitrogen and Water Table Prediction in US Midwest and US Northeast Through Development of Riparian Model*.

**5465. Culture Wars, Political Geography, and the LGBTQ Community (Sponsored by Political Geography Specialty Group, Cultural Geography Specialty Group, Sexuality and Space Specialty Group)**

*Room:* Tremont, Marriott, First Floor (Paper Session)

ORGANIZER(S): Kevin N Raleigh, University of Cincinnati; Chad Kinsella, Ball State University

CHAIR(S): Kevin N Raleigh, University of Cincinnati

**2:00** Chad Kinsella, PhD\*, Ball State University; Colleen McTague, PhD, Urban Design Studio; Kevin Raleigh, PhD, University of Cincinnati, *Renewing the Culture Wars: Religious Freedom Acts and Bathroom Laws*.

**2:20** Berna Turam, Professor\*, Northeastern University; Berna Turam, *New Geographies of Freedom and Resistance: Boston Gay Men's Chorus in Istanbul*.

**2:40** Spencer Nelson\*, Macalester College, *Critical Geographies of Gentrification in Globalization: a Comparative*

*Analysis of Two Gay Villages*.

**3:00** Antony Chum, PhD\*, University of Nottingham, School of Geography; Leroy Gonsalves, Harvard University, Department of Sociology, *Escaping Stigmatization: Geographic Relocation Strategies of Marginalized Groups*.

**3:20** Kevin N Raleigh\*, University of Cincinnati; Chad Kinsella, Ball State University; Colleen McTague, Niehoff Urban Design Studio, *Cincinnati's Issue 3 and Repeal: Legal and Electoral Geographies of a Culture War*.

**5467. Sustainable Urbanization: Challenges and Opportunities (3) (Sponsored by Geographic Information Science and Systems Specialty Group, Urban Geography Specialty Group, Energy and Environment Specialty Group)**

*Room:* Columbus 2, Marriott, First Floor (Paper Session)

ORGANIZER(S): Yuyu Zhou, Iowa State University; Wenze Yue, Zhejiang University; Bailang Yu, East China Normal University

CHAIR(S): Bailang Yu, East China Normal University

**2:00** Kejia Hu; Xuchao Yang\*, Institute of Island and Coastal Ecosystems, Ocean College, Zhejiang University; Jieming zhong; Fangrong Fei; Jiaguo Qi, *Spatially explicit mapping of extreme heat health risk utilizing environmental and socioeconomic data*.

**2:20** Chengshu Yang\*, East China Normal University; Bailang Yu, East China Normal University; Shunqiang Deng, ECNU; Xizhi Zhao, East China Normal University; Zuoqi Chen, East China Normal University; Kaifang Shi, East China Normal University; Jianping Wu, East China Normal University, *The Nighttime Light Urban Development Curve: a spatial measurement of urbanization*.

**2:40** Xuecao Li\*, Iowa State University; Yuyu Zhou, Iowa State University, *Response of vegetation phenology to urbanization in the conterminous United States*.

**3:00** Kristine T Taniguchi\*, San Diego State University - University of California, Santa Barbara; Trent W. Biggs, San Diego State University; Eddy Langendoen, USDA ARS; Carlos Castillo, University of Cordoba (Spain), Córdoba; Napoleon Gudino, CICESE; Douglas Liden, US EPA; Ron Bingner, USDA ARS; Yongping Yuan, US EPA, *The application of 3-D Structure-from-Motion (SfM) techniques and CONCEPTS channel evolution model to simulate stream channel instability downstream of hardpoints in a rapidly urbanizing, semi-arid region of Tijuana, Mexico*.

**3:20** Prasad Avinash Pathak, Dr., Nalanda University; Raja Sengupta\*, McGill University, *Urban Heat Island (UHI) Effect in the context of urban matrix: evaluation with ground-based, low cost sensors*.

**5468. Organizing at the Intersection of Reproductive and Environmental Justice (Sponsored by Geographic Perspectives on Women Specialty Group)**

*Room:* St. Botolph, Marriott, Second Floor (Paper Session)

ORGANIZER(S): Amy K Coplen, Portland State University; Jennifer Gaddis, University of Wisconsin - Madison

CHAIR(S): Amy K Coplen, Portland State University

**2:00** Mayra G. Sanchez, MS\*, University of California - Davis, *Living Environmentalism: The Everydayness of Reproductive and Environmental Justice Struggles against Pesticides in California*.

**2:20** Jade Sasser, PhD\*, University of California - Riverside, *Fighting for Frameworks: Negotiating Contestations over Reproductive, Environmental, and Climate Justice*.

**2:40** Amy K Coplen, MEM\*, Portland State University; Jennifer Gaddis\*, University of Wisconsin - Madison, *Organizing (re)production in the foodservice industry: Toward a coalition politics of gender, race, and the*



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*environment.*

**3:00** Ingrid Elisabet Feeney\*, University of California, *Ni una Fumigada Más: Burgeoning articulations of the environmental and reproductive justice movements in Argentina.*

**3:20** Tess Clark\*, SUNY College of Environmental Science and Forestry, *Environmental Hazards On The Internet: Insights From Emerging Beauty Spaces.*

**5470. China's "One Belt, One Road" Initiative (Sponsored by China Specialty Group)**

*Room:* Northeastern, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Xiaobo Su, University of Oregon

CHAIR(S): Xing Gao, Macalester College

**2:00** Lihui WANG\*, East China Normal University; Yan Zhu, East China Normal University, *China's maritime network in "21st century maritime silk road".*

**2:20** Ming Li\*; Canfei He; Qi Guo, *Proximity and the geographical market expansion of Chinese exporters.*

**2:40** Changyao(Adam) Song\*, *China's outward foreign direct investment in tourism.*

**3:00** Xing Gao\*, Macalester College, *Geography at the Intersection of Global Health and Political Economy: Exploring Chinese Tobacco Corporation's Expansion Abroad and Its Implications for Global Tobacco Control programs.*

**3:20** Abdul Aijaz\*, Indiana University; ABDUL AIJAZ, Grad Student, Indiana University, Bloomington, *Reconfiguration of interests and identities: Symbolic Politics of Pak-China Economic Corridor and Pakistani Federation.*

**5471. Beyond the 'end of Cheap Nature': The production of waste-based commodity frontiers, Part III (Sponsored by Cultural and Political Ecology Specialty Group)**

*Room:* Brandeis, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Seth Schindler, University of Sheffield;

Federico Demaria, Universitat Autònoma de Barcelona

CHAIR(S): Seth Schindler, University of Sheffield

**2:00** Lucia Fernandez\*, Assistant Professor, Institute of Theory and Urbanism, Universidad de la Republica Uruguay; Wastepicker Advisor at WIEGO, *Displacing the excluded: waste management devices and the production of space in Montevideo, Uruguay.*

**2:20** Benjamin Rubin\*, CUNY - Graduate Center, *Toxic Remediation as New Strategy for Cheap Natures.*

**2:40** Jessica Caporusso\*, York University, *Residual Value: Valorizing Plant Excess in Emergent Bioenergy Futures.*

Introducer: Seth Schindler

Discussant(s): Federico Demaria, Universitat Autònoma de Barcelona

**5472. Suburban Geographies of Crisis and Change II (Sponsored by Urban Geography Specialty Group, Ethnic Geography Specialty Group)**

*Room:* MIT, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Coleman Allums, University of Georgia; Scott Markley, University of Georgia; Guillaume Poirat, Sorbonne University

CHAIR(S): Guillaume Poirat, Sorbonne University

**2:00** Scott Markley\*, University of Georgia, *New Urbanism and Race: An Analysis of Neighborhood Change in Suburban Atlanta.*

**2:20** Taylor Hafley\*, University of Georgia, *Changing Geographies of Housing Tenure in Suburban Atlanta.*

**2:40** Markus Moos, PhD MCIP RPP\*, University of Waterloo; Jonathan Woodside, University of Waterloo; Tara Vinodrai, PhD, University of Waterloo; Cyrus Yan, University of Waterloo, *Placing high-rise suburbanism: Does it reduce auto-dependent sprawl?.*

**3:00** Bernadette Hanlon\*, The Ohio State University; Whitney

Air good-Obrycki, Ohio State University, *Uneven Housing Reinvestment in the Cleveland Suburbs.*

**3:20** Travis Young\*, Pennsylvania State University, *Exploring the suburban-urban dynamic of the LIHTC program in Houston.*

**5473. UBC Urban Studies Lab Panel 2 (Social Justice): Interdisciplinary Theoretical Urban Inquiry (Sponsored by Qualitative Research Specialty Group, Urban Geography Specialty Group, Cultural Geography Specialty Group)**

*Room:* Boston University, Marriott, Third Floor (Panel Session)

ORGANIZER(S): Luke Richard Barnesmoore, University of British Columbia

CHAIR(S): Luke Richard Barnesmoore, University of British Columbia

Panelists: Robert D. Lemon, University of Texas at Austin; Sara Fuller, Macquarie University; Julie Clark, University of Glasgow; Nadia Alaily-Mattar, Munich University of Technology; Richard Kruger, Clark University; Tim Leisman, Center for Creative Leadership; Lucie Irene Ashley, University of British Columbia

**5475. Perceiving and Parlaying Climate Change (Sponsored by Human Dimensions of Global Change Specialty Group, Climate Specialty Group, Communication Geography Specialty Group)**

*Room:* Suffolk, Marriott, Third Floor (Paper Session)

ORGANIZER(S): RDK Herman, National Museum of the American Indian

CHAIR(S): Jeffrey Swofford, Arizona State University

**2:00** SARA BARRASA GARCIA\*, Centro Inv Geografia Ambiental, *Perception of climate change on rural communities of the Biosphere Reserve La Encrucijada, Chiapas, Mexico.*

**2:20** Rebecca E. Crane\*, UCLA, *Scapegoating Climate Change: How Climate Discourse in the Philippines Impacts the Urban Poor.*

**2:40** Jessica Bolin\*, University of New Hampshire, *Under-exposed to Double Exposure? Attitudes towards climate change and economic globalization.*

**3:00** Jean Léon Boucher, PhD\*, SUNY - Stony Brook, *Motor Vehicle Emissions and Neighborhood Effects: Examining the Nexus of Climate Change Beliefs, Automobile Emissions, and the Politics of Place.*

**3:20** Jeffrey Swofford\*, Arizona State University, *When the end of human civilization is your day job: exploring how climate change scientists identify and cope with their professional work.*

**5476. Geospatial Health Research Symposium: Health Services, Health Disparities, Rural Health, Hospital Service Area (Sponsored by Rural Geography Specialty Group, Spatial Analysis and Modeling Specialty Group, Health and Medical Geography Specialty Group)**

*Room:* Wellesley, Marriott, Third Floor (Paper Session)

ORGANIZER(S): Eric M. Delmelle, University of North Carolina at Charlotte; Michael J. Widener, University of Toronto; Mei-Po Kwan, University of Illinois at Urbana-Champaign

CHAIR(S): Warren Christopher Jochem, University of Southampton - Highfield, Southampton

**2:00** Warren C Jochem\*, University of Southampton; Jane Menken, University of Colorado Boulder; Elisabeth Dowling Root, The Ohio State University, *Health System Changes in Rural Bangladesh.*

**2:20** Naema Alhosani\*, United Arab Emirates University, *Mapping people's preferences for establishing health service centres in Al Ain City; UAE.*

**2:40** Jason Wencak\*, Oak Ridge National Laboratory; Marie L Urban, Oak Ridge National Laboratory, *Occupancy Estimation of Kenyan Health Facilities.*



**SUNDAY, April 9 • 2:00 PM - 3:40 PM • 5400****5477. Applications of High-Resolution Spatial Data in Physical Geography and Biogeography III (Sponsored by Remote Sensing Specialty Group, Biogeography Specialty Group, Geomorphology Specialty Group)**

- Room:* Harvard, Marriott, Third Floor (Paper Session)  
 ORGANIZER(S): James T. Dietrich, Dartmouth College  
 CHAIR(S): James T. Dietrich, Dartmouth College  
**2:00** Yale He\*, Capital Normal University; Lin Zhu, Capital Normal University; Yongyong Li, Capital Normal University, *Land Subsidence Based on Multi-Source SAR Images in the upper and middle Chaobai River, Beijing.*  
**2:20** Ryan L Perroy, PhD\*, University of Hawaii at Hilo; Nathan Stephenson, University of Hawaii at Hilo; Rose Hart, University of Hawaii at Hilo, *Capturing geomorphic change and disturbance at the Maunakea summit, Hawaii Island.*  
**2:40** Xiaoyu Lu\*, University of Tennessee; Yingkui Li, University of Tennessee; Robert Washington-Allen, University of Tennessee, *Sediment Redistribution in Developed Rill Systems: Resolution and Threshold Issues.*  
**3:00** Kailey Adams\*, East Carolina University; Thad Wasklewicz, PhD, East Carolina University, *Debris flow fan evolution: Physical modeling experiments.*  
**3:20** Rose Hart, M.S. Candidate\*, University of Hawaii - Hilo; Ryan Perroy, Ph.D., University of Hawaii - Hilo; Nathan Stephenson, M.S., University of Hawaii - Hilo, *Shoreline Change Analysis at Three Different Coastal Geomorphologies on Hawaii Island.*

**5479. Bicycling (Sponsored by Transportation Geography Specialty Group)**

- Room:* Arlington, Marriott, Third Floor (Paper Session)  
 ORGANIZER(S): Elizabeth Delmelle, University of North Carolina at Charlotte  
 CHAIR(S): Robert Boyer, University of North Carolina at Charlotte  
**2:00** Hung-Chi Liu\*, National Taiwan University; Jen-Jia Lin, National Taiwan University, *The Effects of Built Environments on Spatial-temporal Patterns of Public Bicycle Uses.*  
**2:20** Brandon Andreasen\*, University of North Dakota; Michael A. Niedzielski, Ph.D., University of North Dakota, *Bicycle Transit and the Journey to Work: An Exploration of Bicycle Accessibility in 10 Large U.S. Cities.*  
**2:40** Celenna Ciuro\*, McMaster University; Darren M. Scott, McMaster University, *What Factors Influence Bike Share Demand? An Investigation of SoBi Hamilton's Hubs.*  
**3:00** Kevin Caldwell, University of North Carolina at Charlotte; Robert Boyer\*, University of North Carolina at Charlotte, *The Social Practice of Bicycle Commuting in Charlotte, North Carolina: Probing the importance of workplace variables..*

**5480. Author Meets Critics: Theresa Enright's "Making of Grand Paris: Metropolitan Urbanism in the Twenty-First Century"**

- Room:* Berkeley, Marriott, Third Floor (Panel Session)  
 ORGANIZER(S): Theresa Enright, University of Toronto; Miriam Greenberg  
 CHAIR(S): Miriam Greenberg  
 Discussant(s): Julie-Anne Boudreau, INRS-Montreal; Theresa Enright, University of Toronto  
 Panelists: Susan Fainstein, Harvard University; David Wachsmuth, McGill University; Kevin Ward, University of Manchester

**5481. Financializing Rural Geographies II (Sponsored by Cultural and Political Ecology Specialty Group, Economic Geography Specialty Group)**

- Room:* Clarendon, Marriott, Third Floor (Paper Session)  
 ORGANIZER(S): Kelly Kay, London School of Economics; Miles Kenney-Lazar, Clark University  
 CHAIR(S): Miles Kenney-Lazar, Clark University  
**2:00** Keith David Barney, Lecturer\*, Crawford School of Public Policy, Australian National University, *Certification, Timberland Investment, and the Financialization of Forests in 'Emerging' Southeast Asia.*  
**2:20** Gustavo Oliveira\*, University of California at Berkeley, *Forging Dragon Heads: Chinese finance in the Brazilian countryside.*  
**2:40** Kelly Kay\*, London School of Economics, *Too Physical to Fail: Financialization and the Vertical Dis-Integration of the US Industrial Timberland Estate.*  
**3:00** Anna Zalik, PhD\*, York University, *Financial Opacity, Land Theft, and Political Risk: Canadian-backed Pipelines in Mexico.*  
 Discussant(s): Michael Woods, Aberystwyth University

**5483. Geographies of 15M: Cultural Ecology and Social Movements in Spain (Sponsored by Urban Geography Specialty Group, Cultural Geography Specialty Group)**

- Room:* Exeter, Marriott, Third Floor (Panel Session)  
 ORGANIZER(S): Susan Larson, Texas Tech University  
 CHAIR(S): Susan Larson, Texas Tech University  
 Panelists: Malcolm Alan Compitello, University Of Arizona; Susan Larson, Texas Tech University; Stephen Luis Vilaseca, Northern Illinois University; Araceli Masterson-Algar; Megan Saltzman; Juliana Luna Freire, Framingham State University; Laura Vazquez Blazquez

**5484. GIS in Weather and Climate I (Sponsored by Geographic Information Science and Systems Specialty Group, Hazards, Risks, and Disasters Specialty Group, Climate Specialty Group)**

- Room:* Fairfield, Marriott, Third Floor (Paper Session)  
 ORGANIZER(S): Olga Wilhelmi  
 CHAIR(S): Olga Wilhelmi  
**2:00** Lawrence Buja\*, National Center for Atmospheric Research, *Co-production of actionable environmental data, information, and knowledge. Geospatial Technologies at the National Center for Atmospheric Research.*  
**2:20** Kevin Sampson, GISP\*, National Center for Atmospheric Research, *Integrating GIS data, science, and spatial methods into atmospheric and hydrologic modelling efforts.*  
**2:40** Bishrant Adhikari\*, Department of Geography, University of Wyoming; Paddington Hodza, Dr., Wyoming Geographic Information Science Center, University of Wyoming; Thomas Minckley, Dr., Department of Geography, University of Wyoming; Chen Xu, Dr., Department of Geography, University of Wyoming, *Near real-time wildfire simulation using Big Data platforms.*  
**3:00** Jennifer Boehnert\*, NCAR, *Development of GIS tools in support of atmospheric research.*  
**3:20** Olga Wilhelmi\*, NCAR; Jennifer Boehnert, NCAR; Heather Lazrus, NCAR; Julie Demuth, NCAR; Rebecca Morss, NCAR, *New approaches for visualizing hurricane and storm surge risk.*

**5487. Spatial Data Mining and Big Data Analytics (I) (Sponsored by Geographic Information Science and Systems Specialty Group, Cyberinfrastructure Specialty Group, Cartography Specialty Group)**

- Room:* Salon J, Marriott, Fourth Floor (Paper Session)  
 ORGANIZER(S): Caglar Koylu, University of Iowa; Diansheng Guo, University of South Carolina  
 CHAIR(S): Caglar Koylu, University of Iowa  
**2:00** J. Cressica Brazier\*, MIT, *Space-time geographies of*

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*urban emissions: linking energy use and mobility data sources to evaluate the carbon footprints of daily activity patterns.*

- 2:20** Akos Jakobi\*, Eotvos Lorand University, *The Role of Spatial Distance in Online Social Network Evolution.*
- 2:40** Kristian Hegner Reinau, Associate Professor\*, Aalborg University, *Emerging hot spot analysis: Estimating the development in the speed of freight in a region using tracking data from logistics companies.*
- 3:00** Irma Kveladze\*, Aalborg University; Kristian Hegner Reinau; Niels Agerholm, *Exploring spatio-temporal patterns in traffic congestion data.*
- 3:20** Caglar Koylu\*, University of Iowa, *Uncovering geo-semantics of interpersonal communication on Twitter.*

**5488. Vegetation Dynamics III - Trends and Methods (Sponsored by Biogeography Specialty Group, Mountain Geography Specialty Group)**

*Room:* Salon K, Marriott, Fourth Floor (Paper Session)

- ORGANIZER(S): Parveen Kumar Chhetri, Texas A&M University; Rosemary Dwight, Texas A&M University
- CHAIR(S): Niti B. Mishra, University of Wisconsin - La Crosse
- 2:00** Jorge V. Ruiz\*, Universidad Pedagógica Y Tecnológica De Colombia; Miguel Angel Mendoza, B. Sc., Colegio Cristiano Bethel; Kevin Mwenda, Department of Geography, University of California, Santa Barbara, *Forest Dynamics and landscape ecology metrics in Old Providence Island, Colombia 2005-2015.*
- 2:20** James Dyer\*, Ohio University, *Using a Water Balance Approach to Examine Temperate Forest Dynamics in Complex Terrain.*
- 2:40** Mark A. Blumler\*, SUNY-Binghamton, *Biome Modeling and Vegetation Dynamics.*
- 3:00** Niti B. Mishra\*, University of Wisconsin - La Crosse; Kumar P Mainali, University of Maryland, College Park, *Monotonic and interrupted trends of vegetation greening and browning in the Himalaya: Spatial patterns and the role of climatic change and human drivers.*

**5491. People, pelts, and policies: a methodological conversation on studying global networks (Sponsored by Urban Geography Specialty Group, Economic Geography Specialty Group)**

*Room:* Nantucket, Marriott, Fourth Floor (Panel Session)

- ORGANIZER(S): Cristina Temenos, University of Manchester - Manchester; Jana Kleibert, Leibniz Institute for Research on Society and Space
- CHAIR(S): Jana Kleibert, Leibniz Institute for Research on Society and Space
- Panelists: Felix Claus Müller, Leibniz Institute for Research on Society and Space (IRS); Jane YeonJae Lee, Northeastern University; Andrew Brooks, King's College London; Julia Affolderbach, University of Hull

**5493. Rescaling Migration, Citizenship, and Rights III: Autonomy, Resistance, Solidarity, Performance (Sponsored by Political Geography Specialty Group, Socialist and Critical Geography Specialty Group)**

*Room:* Orleans, Marriott, Fourth Floor (Paper Session)

- ORGANIZER(S): Harald Bauder, Ryerson University; Jonathan Darling, University of Manchester
- CHAIR(S): Jonathan Darling, University of Manchester
- 2:00** Gaja Maestri\*, Durham University, *Solidarity networks and the urban governance of undocumented migration in Paris.*
- 2:20** Sarah M. Hughes\*, University of Durham, *A Material Politics of Citizenship: the governance of circulating materials from UK Immigration Removal Centres.*
- 2:40** Valeria Raimondi\*, Gran Sasso Science Institute, *Beyond The Camp: Refugees' Strategies of Self-Managed Reception. The Case of Athens.*

**5495. Spatial Optimization and Analysis I (Sponsored by Geographic Information Science and Systems Specialty Group, Spatial Analysis and Modeling Specialty Group)**

*Room:* Falmouth, Marriott, Fourth Floor (Paper Session)

- ORGANIZER(S): Daoqin Tong, University of Arizona - Geography & Regional Development; Ran Wei, University of Utah
- CHAIR(S): Daoqin Tong, University of Arizona - Geography & Regional Development
- 2:00** Kara Lyn Habershtock Tanoue\*, University of Arizona - Geography & Development; Daoqin Tong, Ph.D, University of Arizona- Geography & Development, *Optimizing for SNAP-Ed: Location modeling for public nutrition assistance retail.*
- 2:20** Kamyoun Kim\*, Kyungpook National University, *Evaluating Service Coverage of Evacuation Facilities based on Mobile Phone Data.*
- 2:40** Ran Wei\*, University of Utah, *An alternative classification scheme for uncertain attribute mapping.*
- 3:00** Qing Zhong\*, University of Arizona; Daoqin Tong, University of Arizona, *A maximal covering location model for solar photovoltaic (PV) panels installation.*

**5496. The Contact Zone II: Where Species Meet (Sponsored by Cultural and Political Ecology Specialty Group, Cultural Geography Specialty Group, Animal Geography Specialty Group)**

*Room:* Maine, Marriott, Fifth Floor (Paper Session)

- ORGANIZER(S): Jenny R. Isaacs, Rutgers University
- CHAIR(S): Jenny R. Isaacs, Rutgers University
- 2:00** Jenny R. Isaacs, PhD Candidate\*, Rutgers University, *The "Bander's Grip"; Reading Sites of Human-Shorebird Contact.*
- 2:15** Kelsi Nagy, DPhil Candidate\*, University of Oxford, *If a Cow Could Speak: Establishing more-than-human contact zones through a multi-species ethnography of an urban Indian dairy cow.*
- 2:30** Jun-Hua Lin\*, Department of Taiwan and Regional Studies, National Dong Hwa University; Heng-Chang Chi, Department of Tourism, Recreation and Leisure Studies, National Dong Hwa University, *'In the name of cats': The emergence of feline economics and cat cafe in Taiwan.*
- 2:45** Aurora Fredriksen, PhD\*, University of Manchester - Manchester, *Encounters in the Ebb and Flood: Knowing Nonhuman Animals in the Intertidal Contact Zone.*
- 3:00** Leah Gibbs\*, University of Wollongong, *Sharks, nets and disputed territory in eastern Australia.*
- Discussant(s): Susan Ruddick, University of Toronto; Rosemary-Claire Collard, Concordia University; Helen Frances Wilson, University of Manchester; Mary Louise Pratt, New York University; Elizabeth DeLoughrey, UCLA

**5497. Economic restructuring in China-I (Sponsored by China Specialty Group)**

*Room:* Massachusetts, Marriott, Fifth Floor (Paper Session)

- ORGANIZER(S): Xiaobo Su, University of Oregon
- CHAIR(S): Yifan Cai, Clark University
- 2:00** Siyu Cai\*, UCLA, *Chinese Transnational Corporations: international learning curve?.*
- 2:20** Xiang Zhang\*, University of Kansas, *A Multiscale geography of e-commercial companies in China.*
- 2:40** Dawei Niu\*, Peking University, *City Network of China Medical Center System?Based by Gravity Model Method on Number of Doctors and Sickbeds.*
- 3:00** Victoria Breeze\*, Michigan State University, *Systematic Review of Chinese-Language Research on Investment in African Agriculture.*
- 3:20** Yifan Cai\*, Clark University, *Shanzhai, or the knock-off economy in China: capability building in a decentralized developmental state.*

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ORGANIZER(S): Ana I. Sanchez-Rivera, University of Maryland-College Park

CHAIR(S): Ana I. Sanchez-Rivera, University of Maryland-College Park

**4:00** Bradley Hinger\*, University of Tennessee, *Regional Narratives and Racism Redacted.***4:20** Estraven Lupino-Smith\*, Concordia University, *Marginalized Aesthetics: Queered Interrogations of Gentrification in Saint-Henri.***4:40** Kelly Sharron\*, University of Arizona, *The Implications and Enforcement of Race, Space, and Place in Ferguson, Missouri.***5:00** Orly Clerge, Ph.D.\*, Assistant Professor of Sociology & Africana Studies, *Memories in Black: Slavery in New York's Forgotten Racial Geography.***5:20** Ana I. Sanchez-Rivera\*, University of Maryland-College Park, *Gerrymandering in Puerto Rico?: History about Loiza's split and its outcomes.***Room:** Room 110, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Jeroen Verplanke, ITC - University of Twente; Yazidhi Bamutaze, Makerere University

CHAIR(S): Yazidhi Bamutaze, Makerere University

**4:00** Jude Mwenda Ntabathia\*, *Mapjack: A mobile based wiki for collaborative map making.***4:20** Joshua Comenetz, Ph.D.\*, U.S. Census Bureau, *International Population Mapping and Data Harmonization.***4:40** Jeffrey D. Hamerlinck\*, University of Wyoming, *Considering spatial data infrastructures in planning support system implementation.***5:00** Juliana A Maantay, Ph.D.\*, Lehman College/CUNY; Andrew R. Maroko, Ph.D., City University of New York School of Public Health, *Improving Population Mapping and Exposure Assessment: 3-Dimensional Dasymeric Disaggregation.***5:20** Falguni Mukherjee\*, Sam Houston State University, *Digital India using Geospatial Information.***5510. Approaches in Historical Geography****Room:** Room 111, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Andrew Marshall, Pennsylvania State University

**4:00** Hector Agredano\*, The Graduate Center, CUNY, *Iron Horse Democrat: Francisco I. Madero's democratic revolution and the National Mexican Railroads.***4:20** Andrew Marshall\*, Pennsylvania State University, *Disputing the Navy: The Institutional and Legal Geographies of Private Claims against the U.S. Government, 1882-1910.***5511. Economic Impact and Social Cost of Climate Change and Carbon Reduction 2****Room:** Room 200, Hynes, Second Level (Paper Session)

ORGANIZER(S): Xiangzheng Deng, Institute of Geographic Sciences and Natural Resources Research, CAS

CHAIR(S): Yuping Bai

**4:00** Jing Peng\*, IAP, *Effect of terrestrial nitrogen fixation rate on future terrestrial carbon storage.***4:15** Gui Jin\*, IGSNRR Chinese Academy of Sciences, Hubei University; Saiya Shi, Hubei University; Bing Jiang, Wuhan Institute of Shipbuilding Technology, *Study on farmers' adaptation to climate change and Its influencing factors.***4:30** Chen Ran\*, *Environmental tax and SO2 and NOX emissions - a sector level decomposition analysis..***4:40** Chao Wei\*, China University Of Geosciences, *Research on the Development and Evolution of Urbanization and Carbon Emissions Effect in Hubei Province.***4:50** Pei Wang\*, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy; Xiangzheng Deng, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences (CAS), *Impact of surface temperature increase on grain yield and production efficiency: A case study in major grain production areas.***5:00** Han Wang\*, xin nie, *If the Land Development Time Restriction will Reduce the Land Price? : From the Perspective of American Call Options.***5:15** Yali Zhang\*, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, Beijing 100101, China; Xiangzheng Deng, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, Beijing 100101, China, *The Impact of Climate Change on Maize Production and Consumption: a case study of Northeast China.***5:30** LIGUO Zhang\*, China University of Geosciences, *Regional land use carbon effect analysis and its accounting base on coefficient amendment ?A case study of Hubei province.***5507. Urban inequalities (Sponsored by Mainstreaming Human Rights in Geography and the AAG Featured Theme)****Room:** Room 108, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): Mainstreaming Human Rights

CHAIR(S): Oren Yiftachel, Ben-Gurion University

**4:00** Aina Landsverk Hagen, Dr.\*, Work Research Institute; Bengt Andersen, Dr.\*, The Work Research Institute, Oslo and Akershus University College; Ingar Brattbakk\*, Work Research Institute, Oslo and Akershus university College, *Who's paying the price? Social bonding and geographies of spatial inequalities in Tøyen, Oslo.***4:20** Beth Nelson\*, University of South Carolina, *Landscape and Discourse Analysis of Historical Violence in Identity Formation: the case of France and Algerian immigrants.***4:40** Jeffrey R. Masuda\*, Queen's University; Audrey Kobayashi, Queen's University, *Inhabiting the right to the city: Lessons from the battle for the Single Room Occupancy Hotel in Vancouver, Canada.***5:00** Andy Anderson, Ph.D.\*, Amherst College, *Bias in New Deal Housing Maps.***5:20** Oren Yiftachel\*, Ben-Gurion University of the Negev, *Human Rights and 'Gray Spacing': the Impact of New Urban Regimes.***5508. Conservation in Indigenous Contexts (Sponsored by Environmental Perception and Behavioral Geography Specialty Group, Indigenous Peoples Specialty Group)****Room:** Room 109, Hynes, Plaza Level (Paper Session)

ORGANIZER(S): RDK Herman, National Museum of the American Indian

CHAIR(S): Stan Stevens, University of Massachusetts - Amherst

**4:00** Gregory M. Thaler\*, Cornell University, *Protecting and Becoming Wehea: The Wehea Dayak and Their Forest, 1970-2015.***4:20** Ariel Rawson\*, The Ohio State University, *'Rights of Nature': indigenous cosmology or western environmentalism?.***4:40** Sara K. Diamond\*, University of Texas, *Gendered Impacts of Conservation Policy in Multi-Use Spaces.***5:00** Stan Stevens\*, University of Massachusetts - Amherst, *Realizing Rights-based Conservation: Implementing the New Paradigm of Protected Areas.***5509. Akili kwa Takwimu: (Geo) Data Driven infrastructures to Improve Policy Implementation (Sponsored by Africa Specialty Group)**



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ORGANIZER(S): Julia Laforge, University of Manitoba; Charles Zalman Levkoe, Wilfrid Laurier University

CHAIR(S): Charles Zalman Levkoe, Wilfrid Laurier University

**4:00** Kin Wing Chan\*, Cardiff School of Geography and Planning; Gareth Enticott, Cardiff School of Geography and Planning, *Exploring the thinking of 'Good Farming' in pig production industries between Europe and China: a sociological analysis of farmers' attitudes towards animal diseases and vaccination practices.***4:20** Susanne Stenbacka\*, Uppsala University, *Recruitment strategies and responsibilities among farmers.***4:40** Laura Lawler\*, University of Wisconsin, *From One "Good" Farming to Another: Moving beyond the paradoxes in agricultural-entrepreneurial programs for refugees in resettlement in the US.***5:00** Isaac N. Luginaah, PhD\*, University of Western Ontario; Rachel Bezner-Kerr, PhD, Cornell University; Hanson Nyantakyi-Frimpong, PhD, University of Michigan; Timothy Conley, PhD, The University of Western Ontario; Laifolo Dakishoni, Soils, Food and Healthy Communities; Esther Lupafya, Soils, Food and Healthy Communities, *Agroecology and farmer participation in community seed banks and their sustainability in Malawi.***5:20** Leigh Martindale\*, Lancaster University, *China's New Farmers: redefining the rural?.***5513. Informality Across Global North and Global South****Room:** Room 202, Hynes, Second Level (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Kylee Aisha Van Der Poorten, University of Calgary

**4:00** Jennifer L. Smith\*, Indiana University Of Pennsylvania, *Policy and Peri-urbanization in the Production of Post-Apartheid Space.***4:20** Anjana Mathur Jagmohan, Ph.D.\*, Dyal Singh College, Delhi university; Jag Mohan, M.Phil, Swami Shradhdhanand College, University of Delhi, *Chronicles Of 'Urbanisation' In Delhi's Urban Villages.***4:40** Kylee Aisha van der Poorten, University of Calgary, *Neighbourhood Politics and the Disparate Geography of Informal Housing in Calgary.***5514. New Trends and Insights from China****Room:** Room 203, Hynes, Second Level (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Lulu JIN

**4:00** Li Yijia\*, Ye Tao; Gao Yu; Zong Shuo, *Livestock snow disaster in central Qinghai-Tibetan plateau: risk assessment and index-based insurance solutions.***4:20** Juan Lin\*, East China Normal University; Yehua Dennis Wei, The University of Utah, *Technological evolution of rural e-commerce cluster: Insights from Zhejiang's Taobao Villages.***4:40** Ningxu Zhang\*, Institute of Geographical Sciences and Natural Resources Research; Yilan Liao, Institute of Geographical Sciences and Natural Resources Research, *Research on Optimal Allocation of Catering Services Resources in Beijing.***5:00** Wentao Yang\*, Peking University; Yun Xiong Li, Peking University; Canfei He, Peking University, *The Relation between Rights, Enforcement of Laws and Foreign Direct Investment: A Study Based on Provincial Panel Data.***5:20** Lulu JIN, Peking University; Canfei HE, Peking University, *Path creation in China's industrial evolution : do local subsidies matter?.***5515. Crime and Divided Cities in North America****Room:** Room 204, Hynes, Second Level (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Christian Siener, CUNY Graduate Center

**4:00** Jay Newberry\*, Binghamton University, *In the Shadow of Lady Liberty: The Changing Determinants of Stop and Frisk Stops in NYC..***4:20** Robert James Stokes, PhD\*, DePaul University; Robert J Stokes, PhD, DePaul University - Chicago, IL, *Assessing the Crime and Disorder Impacts of a Block Leadership Program in Mantua Philadelphia.***4:40** Gregory Metcalfe\*, University of Waterloo; Su-Yin Tan, Ph.D., University of Waterloo, *An investigation of the relationship between crime and the built and natural environment in the Region of Waterloo, Ontario.***5:00** John Oswald\*, Eastern Michigan University, *Divided Ann Arbor: Creating and Reinforcing Socio-Economic Separation in a "Regular" US City.***5:20** Christian Siener\*, CUNY Graduate Center, *From Prison to Homeless Shelter: Camp LaGuardia and the Political Economy of an Urban Infrastructure.***5517. Uncertainty from 'above' and 'below' - Politics and perspectives****Room:** Room 206, Hynes, Second Level (Paper Session)

ORGANIZER(S): Hans Adam, Norwegian University of Life Sciences; Lyla Mehta, Institute of Development Studies; Upasana Ghosh, IIHMR Kolkata

CHAIR(S): Lyla Mehta, Institute of Development Studies

**4:00** Lyla Mehta\*, Institute of Development Studies, *Unpacking uncertainty and climate change from 'above'.***4:20** Shilpi Srivastava\*, Institute of Development Studies, University of Sussex; Lyla Mehta, Institute of Development Studies; Vijay Kumar, Dr, Gujarat Institute of Desert Ecology, Bhuj, *Dynamic environments: The case of overlapping uncertainties in Kutch, India.***4:40** Subir Dey\*, University of Sussex; Vinita Damodaran, University of Sussex; Rohan D'Souza, University of Kyoto, *Floods, Earthquakes and Famines Normalising "uncertain" environments in the long nineteenth century in Colonial India.***5:00** Hans Nicolai Adam\*, Norwegian University of Life Sciences; D. Parthasarathy, IIT Bombay; Alankar, CSDS Sarai, Delhi; Synne Movik, Norwegian Water Research Institute; Lyla Mehta, IDS Sussex/ Norwegian University of Life Sciences, *Urban flooding, uncertainty and transformation: Politics and Perspectives in Mumbai.***5:20** Darley Jose Kjosavik, Associate Professor\*, Norwegian University of Life Sciences (NMBU); Upasana Ghosh, Assistant Professor, Indian Institute of Health Research Management University, *Gendered perspectives on climate change and livelihood uncertainties in the Sundarbans, India.***5519. Spaces of Brazilian Political Economy****Room:** Room 210, Hynes, Second Level (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Amintas De Oliveira Brandao Junior, Sage - Nelson Institute

**4:00** Tiago Cisalpino Pinheiro, PhD\*, Pontifical Catholic University of Minas Gerais; Joao Francisco de Abreu\*, Catholic University of Minas Gerais-Brazil, *Spatial Analysis of Migration Flows and Territorial Decentralization in Brazil.***4:20** Joshua D. Shake\*, Center for Metropolitan Studies (CEM)/ University of São Paulo, *Beyond incidental planning? Macrorregional plans and the (re)institutionalization of regionalism in Brazil.***4:40** Pablo Ibañez\*, Federal Rural University of Rio de Janeiro, *Geopolitics and innovation: economic subsidies policy*



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ORGANIZER(S): Mara Cristina Nogueira Teixeira, London School of Economics; Pablo Javier Navarrete Hernandez, London School of Economics

CHAIR(S): Pablo Javier Navarrete Hernandez, London School of Economics

**4:00** Mara Nogueira\*, London School of Economics, *Engaging with the State: displacement, informality and citizenship in the context of mega-events.***4:20** Fabiola Berdiel, PhD Candidate\*, New School University, *Citizens' Tactical Practices of State-making in a Changing Cuba: Government policies, Public Sphere imaginaries, and Everyday appropriations..***4:40** Jota Samper, Ph.D.\*, ENVD Program, UC Boulder, *A predictive model for informal settlement formation: Evidence and policy implications from Medellin, Colombia..***5:00** João Fernando Pires Meyer\*, Universidade de São Paulo; Emilio Haddad, USP; Angela L. Barbon., USP; Ariadne P. Silva, USP; Caio S. A. Carvalho, USP; Gustavo M. Santos, USP; Maria de Lourdes Zuquim, USP; Rodrigo M. H. Tanaka, USP; Rovy P. Ferreira, ENSA Lyon, *Residential real estate market in Paraisópolis: what has changed in the last ten years?.***5:20** Maria Carrizosa\*, The New School, *Mapping Space-use Intensity in Informal Settlements.***5523. Applied Mobilities in the Age of Uncertainty, Risk and Sustainability***Room:* Room 303, Hynes, Third Level (Paper Session)

ORGANIZER(S): Sven Kesselring, Nuerntingen-Geislingen University; Malene Freudendal-Pedersen

CHAIR(S): Sven Kesselring, Nuerntingen-Geislingen University

**4:00** Sharon Wilson\*, University of Sunderland; Sharon Wilson, Ms, University of Sunderland Uk : *Applied Mobilities Cosmobilities Session, The embodied viscosities of 'slow travel' and affect on light, atmosphere, time and motion.***4:20** Anne Aguilera\*, Université Paris Est Marne la Vallée, IFSTTAR; Alain Rallet, University of Paris South, RITM, *Changes In Individual Travel Behavior In The Age Of Connected Mobility.***4:40** Ole B. Jensen\*, Dept of Architecture & Design, Aalborg University; Hans Jørgen Andersen, Dept of Architecture & Design, Aalborg University, *Feedback Urbanism - conceptualising contemporary urban technology in a context of uncertainty.***5:00** Alexis Blondela\*, MSc of Geomatics applied to Urban Studies and Risks Université de Cergy-Pontoise, *Changing the Understanding of Decision Makers On Sustainable Mobilities: Building a Qualitative GIS of Cycling.***5524. Methods in Urban Ecology***Room:* Room 304, Hynes, Third Level (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Hongyan Cai

**4:00** Humphrey Wafula Kalibo\*, University of Nebraska, *Using Spectral Vegetation Indices Derived from In-Situ Single Leaf-level Reflectance to Estimate Seasonal Progression of Vegetation Fraction Among Mid-**latitude Deciduous Trees.***4:20** Alexey N. Shiklomanov\*, Boston University; Shawn P Serbin, Brookhaven National Laboratory; Michael C Dietze, Boston University, *Leaf optical properties shed light on foliar trait variability at individual to global scales.***4:40** Mingyue Sun\*, *A contrastive study of different methods to study phenology using Remote sensing..***5:00** Elizabeth M. B. Doran, PhD\*, Duke University, *Multi-method approach to investigations of Urban Heat Island: Case Study from Durham, North Carolina.***5:20** Hongyan Cai\*, Xinliang Xu, *Impacts of park landscape structure on urban thermal environment using Quickbird and Landsat images.***5525. Socioeconomic inequality and public health (Sponsored by Regional Development and Planning Specialty Group, Health and Medical Geography Specialty Group)***Room:* Room 305, Hynes, Third Level (Paper Session)

ORGANIZER(S): Yingru Li, University of Central Florida

CHAIR(S): Paola Signoretta, None

**4:00** Amy Sweet\*, University of Bristol; Richard Harris, University of Bristol; David Manley, University of Bristol, *Growing up apart: Mobility of children over the educational life course.***4:20** Yu Yang\*, Institute of Geographical Sciences and Nature Resources Research, Chinese Academy of Sciences; Wen Dong, Institute of Geographical Sciences and Nature Resources Research, Chinese Academy of Sciences, *Spatial Structure, Inequality and Trading Community of Slected Renewable Energy Networks.***4:40** Steven Pham\*, University of Toronto - Mississauga, *Places Left Behind? Declining Inner Suburbs in the Toronto CMA and their Changing Typologies.***5:00** Qinglin Hu\*, University of Connecticut, *Geographical Change and Regional Variations in Income Inequality among US Metropolitan Areas, 1990-2010.***5:20** Paola E Signoretta, Dr\*, Department of Social Sciences, Loughborough University, UK; Veerle Buffel, Dr, Department of Sociology, Ghent University, Belgium; Piet Bracke, Professor, Department of Sociology, Ghent University, Belgium, *Physical Environmental Conditions, Social Inequalities, and Mental Wellbeing.***5526. Resilience, Adaptation, and Environmentalism***Room:* Room 306, Hynes, Third Level (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Jessica Reilly-Moman, University of California - Berkeley

**4:00** Anne Jerneck\*, Lund University; Lennart Olsson, Lund University, *a critical social science perspective on resilience.***4:20** Alexandra Lesnikowski\*, McGill University; James Ford, PhD, McGill University; Lea Berrang Ford, PhD, McGill University; Robbert Biesbroek, PhD, Wageningen University, *New approaches for tracking progress on adaptation.***4:40** Susanne Nordbakke\*, Institute of Transport Economics, *Who are most likely to adapt their travel behavior to changes in weather conditions?.***5:00** Jessica Reilly-Moman, MS\*, University of California - Berkeley, *Understanding Climate Change Impacts and Resilience through Science and Narrative in Rural Latin American Coastal Communities.***5528. Geographic Patterns of Noncommunicable Diseases in Africa and the World (Sponsored by Africa Specialty Group, Health and Medical Geography Specialty Group)***Room:* Room 308, Hynes, Third Level (Paper Session)

ORGANIZER(S): Joseph R. Oppong, University of North Texas; Isaac N. Luginaah, University of Western Ontario

CHAIR(S): Joseph R. Oppong, University of North Texas

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**4:00** Surinder Aggarwal\*, Delhi University, *Mapping risk factors and vulnerability for non-communicable diseases.*

**4:20** Mark A Green\*, University of Liverpool; Danny Dorling, University of Oxford; Richard Mitchell, University of Glasgow, *Exploring the interaction between an individual's socioeconomic status and neighbourhood deprivation on the risk of premature death in England, 2011.*

**4:40** Stephen Anim-Preko, MBA\*, Western Michigan University; Kathleen Baker, PhD, Western Michigan University; Amy B Curtis, PhD, Western Michigan University; Rajib Paul, PhD, Western Michigan University, *Diabetes Screening in Michigan: a Spatial and Statistical Comparative Analysis for three Health Insurance Plans in Michigan.*

**5529. Bombay Broker: explorations at the ethnographic edge**

*Room:* Room 309, Hynes, Third Level (Panel Session)

ORGANIZER(S): Rachel Sturman, Bowdoin College Brunswick, ME; Lisa Bjorkman; Sai Balakrishnan

CHAIR(S): Lisa Bjorkman

Discussant(s): Sai Balakrishnan; Lisa Bjorkman

Panelists: Rachel Sturman, Bowdoin College Brunswick, ME; Llerena Searle, University of Rochester; Chitra Venkataramani; Liza Weinstein, Northeastern University

**5530. Remote Sensing Techniques for Understanding Populations and Culture**

*Room:* Room 310, Hynes, Third Level (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): Haibin Xia, East China Normal University

**4:00** Temesghen Eyassu Sereke, MA student in Cartography and Geo-Informatics\*, MA student, *Remote Sensing and Geospatial Information System Analysis for the Varied Population Distribution in Eritrea and the reasons behind their distribution.*

**4:20** Sung Hin Chiu\*, National Taiwan Normal University - Taipei; Kuo-Chen Chang, Professor of Department of Geography, National Taiwan Normal University, *Analysis Sub-replacement fertility in Taipei with SSACS.*

**4:40** Jacob Richmond Turner\*, University of North Carolina, Greensboro, *Interpreting Cultural Landscapes using Geophysical Remote Sensing, Cartography and GIS: Multiple Instrument Data Fusion Methods.*

**5:00** Andrew Copenhaver\*, George Washington University, *Predicting Population Density in two Ghanaian Cities Using Census Data and Multiple Imagery-Derived Features.*

**5:20** Haibin Xia, school of Geographic Sciences, East China Normal University; Haibin Xia\*, East China Normal University, *The spatial distribution and change of Chinese population constrained by the natural endowments in Agent-based GIS.*

**5532. Waste Management: Solid and Hazardous**

*Room:* Room 312, Hynes, Third Level (Paper Session)

ORGANIZER(S): Program Committee

CHAIR(S): William Milton Bowen, Cleveland State University

**4:00** Cassandra Kuyvenhoven, MA\*, Queen's University, *The Governance of Waste Transportation in Southern Ontario, Canada.*

**4:16** JULIE OSAYANDE ENOMA\*, Prof. S.I Omofonmwan, *The Problem of Waste Management in the Federal Capital City, Abuja.*

**4:32** TaeKyoung Lim, Cleveland State University; William Milton Bowen\*, Cleveland State University, *The Effect of the American Recovery and Reinvestment Act on Local Energy-efficiency Initiatives.*

**5564. Surface and Groundwater Quality Challenges in the 21st Century (Sponsored by Water Resources Specialty Group)**

*Room:* Boylston, Marriott, First Floor (Paper Session)

ORGANIZER(S): Joseph Terzungwe Zume, Shippensburg University

CHAIR(S): Michael Emch, University of North Carolina at Chapel Hill

**4:00** Janardan Mainali\*, Portland State University; Heejun Chang, Portland State University, *Spatio-temporal dynamics of water quality parameters in Han River Basin South Korea.*

**4:20** Melinda D. Daniels\*, Stroud Water Research Center; Steve Kerlin, Stroud Water Research Center; Nanette Marcum-Dietrich, Millersville University; Carolyn Staudt, Concord Consortium, *Model My Watershed - an online app to compare conservation and development scenario impacts on watershed hydrology and water quality.*

**4:40** Dinesh Shrestha\*, South Dakota State University, *Geography of Nitrates in the Big Sioux River Basin: 2000-2016.*

**5:00** Varun Goel\*, UNC Chapel Hill; Michael Emch, University of North Carolina Chapel Hill, *Finding Safe Drinking Water to Mitigate Arsenic Contamination in Bangladesh.*

**5565. Rural Geographies and Tourism (Sponsored by Recreation, Tourism, and Sport Specialty Group, Rural Geography Specialty Group)**

*Room:* Tremont, Marriott, First Floor (Paper Session)

ORGANIZER(S): Matthew Cook, Eastern Michigan University

CHAIR(S): Ferran Pons Raga, McGill University

**4:00** Xialei Duan\*, Chinese University of Hong Kong, *Rural destination image and branding in China.*

**4:20** Daniel Francisco Avendaño\*, National University of Costa Rica, *Promoting Sustainable Tourism And Territorial Appropriation On Behalf Of Community Rural Tourism Initiatives In The Nicoya Peninsula Of Costa Rica.*

**4:40** Mary E. Cawley, Dr, Adjunct Professor\*, National University of Ireland Galway, *A strategic evaluation of rural natural resource use for tourism- the example of an Irish salmon fishery.*

**5:00** Cedric Zhe WANG\*, The Chinese University of Hong Kong, *Tourism Livelihood in Ethnic Communities of China.*

**5:20** Ferran Pons Raga\*, McGill University, *Mines and parks: (hyper) modern infrastructures around a rural abandoned hamlet.*

**5568. The Psychology of Sustainable Urban Places (Sponsored by Urban Geography Specialty Group)**

*Room:* St. Botolph, Marriott, Second Floor (Paper Session)

ORGANIZER(S): Philip Brown; Jenna Marie Condie, Western Sydney University

CHAIR(S): Philip Brown

**4:00** Jakub Krukar\*, Institute for Geoinformatics, University of Muenster, Germany, *Cognitively Sustainable Built Environments.*

**4:20** Henk Staats\*, Leiden University, *Greening a city: aesthetic, affective and restorative quality of the Leiden Singelpark project.*

**4:40** Alex Lord, PhD\*, University of Liverpool, *Experimenting with the principle of self-organisation in planning policy.*

**5:00** Verity Anne Greenwood, Dr\*, Macquarie University, *The Effect of the Civilian Transition Experience on the Health and Resilience of Younger Veterans.*

**5:20** Jenna Marie Condie\*, Western Sydney University, *temp.*

**5572. Suburban Geographies of Crisis and Change III (Sponsored by Urban Geography Specialty Group, Ethnic Geography Specialty Group)**

**SUNDAY, April 9 • 4:00 PM - 5:40 PM • 5500**

- Room:** MIT, Marriott, Third Floor (Paper Session)  
**ORGANIZER(S):** Coleman Allums, University of Georgia; Scott Markley, University of Georgia; Guillaume Poirer, Sorbonne University  
**CHAIR(S):** Coleman Allums, University of Georgia  
**4:00** Katrin B. Anacker\*, George Mason University; Christopher Niedt, Hofstra University, *Analyzing Accessory Dwelling Units on Long Island*.  
**4:20** De Laet Sarah\*, Université Libre de Bruxelles, *Residential migration of Brussels popular households : an approach by social classes categorization*.  
**4:40** Guillaume Poirer\*, Université Paris Est Créteil, *Changes in suburbs, what are the political consequences in Toronto?*.  
**5:00** Roman Lozynski\*, SIUE, *Landscapes of Privatization in Post-socialist Suburbs*.

**5573. UBC Urban Studies Lab Panel 3 (Algorithms & Society): Interdisciplinary Theoretical Urban Inquiry (Sponsored by Qualitative Research Specialty Group, Urban Geography Specialty Group, Cultural Geography Specialty Group)**

- Room:** Boston University, Marriott, Third Floor (Panel Session)  
**ORGANIZER(S):** Luke Richard Barnesmoore, University of British Columbia  
**CHAIR(S):** Luke Richard Barnesmoore, University of British Columbia  
**Discussant(s):** Ryan Burns, University of Calgary; Charles Bartlett Travis, University of Texas, Arlington  
**Panelists:** John Hessler, Johns Hopkins University; Giuliano Morse; Byron Miller, University of Calgary; Federico Cugurullo, Trinity College Dublin; Anna Paola Quaglia, Polytechnic University of Turin

**5575. Maritime geography: transport and blue growth (Sponsored by Economic Geography Specialty Group, Transportation Geography Specialty Group)**

- Room:** Suffolk, Marriott, Third Floor (Paper Session)  
**ORGANIZER(S):** Tommi Inkinen, University of Turku  
**CHAIR(S):** Tommi Inkinen, University of Turku  
**4:00** Sarah Gummo\*, *GIS-Based Marine Systems: The Effects of Underfunding on Search and Rescue Capabilities*.  
**4:20** Ashley Johnson, Ph.D.\*, Jacksonville University; Ashley M. Johnson, Ph.D., Jacksonville University; Ray Oldakowski, Ph.D.\*, Jacksonville University, *Planning for opportunities along the St. Johns River: incorporating survey research and GIS to support local decisions about water access facilities*.  
**4:40** Tommi Inkinen\*, University of Turku, *Assessment of the Port Waste Management in Baltic Sea Area: Current Condition and Future Prospects*.

**5576. Geospatial Health Research Symposium: Spatial Data and Analytical Methods in Health Geography (Sponsored by Geographic Information Science and Systems Specialty Group, Spatial Analysis and Modeling Specialty Group, Health and Medical Geography Specialty Group)**

- Room:** Wellesley, Marriott, Third Floor (Paper Session)  
**ORGANIZER(S):** Eric M. Delmelle, University of North Carolina at Charlotte; Mei-Po Kwan, University of Illinois at Urbana-Champaign; Michael J. Widener, University of Toronto  
**CHAIR(S):** Sara McLafferty, University of Illinois  
**4:00** Lara J Iverson\*, SUNY University at Buffalo, *Sampling Constraints and Missing Data: A Bayesian Approach for the Measurement of Social Network Data Collected in the Field for Health Research*.  
**4:20** Katherine A. Wright\*, University of Southern California, *From research to results: Web GIS as a platform for research collaboration to affect real-world change*.  
**4:40** Sara McLafferty\*, University of Illinois; Kathryn Abelt, University of Illinois at Urbana-Champaign; Daniel Schneider, University of Illinois at Urbana-Champaign,

*Placing Bedbug Reports: Spatial and Socio-economic Uncertainties in Bedbug "Big Data"*.

- 5:00** Dorris Scott, University of Georgia, *Integrating Social Media and Internet Review Data in Health Accessibility Modelling*.  
**5:20** Lan Mu\*, University of Georgia, *Friendship Paradox in Relation to Network Density and the Implications in Geographic and Health Studies*.  
**Discussant(s):** Eric M. Delmelle, University of North Carolina at Charlotte

**5577. Applications of High-Resolution Spatial Data in Physical Geography and Biogeography IV (Sponsored by Remote Sensing Specialty Group, Biogeography Specialty Group, Geomorphology Specialty Group)**

- Room:** Harvard, Marriott, Third Floor (Paper Session)  
**ORGANIZER(S):** James T. Dietrich, Dartmouth College  
**CHAIR(S):** James T. Dietrich, Dartmouth College  
**4:00** Jeffrey Smyczek\*, University of Wisconsin-Whitewater; Eric Compas, University of Wisconsin-Whitewater; Rocio Duchesne, University of Wisconsin-Whitewater, *Mapping the prairie: correlations between biomass and vegetation indices using small unmanned aerial systems*.  
**4:20** Cody Litchfield\*, E & J Gallo Winery; Jason McVay\*, E&J Gallo Winery; Maria Mar Alsina, E&J Gallo Winery; Brent Sams, E&J Gallo Winery; Luis Sanchez, E&J Gallo Winery; Nick Dokoozlian, E&J Gallo Winery, *Leveraging high resolution sensors to inform precision viticulture in California wine grape vineyards*.  
**4:40** Colin Doyle\*, University of Texas - Austin; Timothy Beach, PhD, University of Texas at Austin; Samantha Krause, University of Texas at Austin; Sheryl Luzzadder-Beach, PhD, University of Texas at Austin, *LiDAR and Multiproxy Evidence for Spatial and Temporal Human Impacts in a Fluvio-karst Watershed in Central America*.  
**5:00** Marc Linderman\*, University of Iowa, *High Resolution Hyperspectral Imaging of Agro-Ecosystems*.  
**Discussant(s):** James T. Dietrich, Dartmouth College

**5581. Financializing Rural Geographies III (Sponsored by Cultural and Political Ecology Specialty Group, Economic Geography Specialty Group)**

- Room:** Clarendon, Marriott, Third Floor (Paper Session)  
**ORGANIZER(S):** Kelly Kay, London School of Economics; Miles Kenney-Lazar, Clark University  
**CHAIR(S):** Kelly Kay, London School of Economics  
**4:00** Nicola Livingstone\*, UCL; Meri Juntti, Middlesex University; Nick Gallent, UCL; Iqbal Hamiduddin, UCL; Phoebe Stirling, UCL, *Rethinking Rural? Assessing impacts of institutional investment across Europe's countryside*.  
**4:20** Richard Johnson\*, University of Arizona - Geography & Development, *Debt Landscapes: Immigration Lending, Border Militarization, and Contingent Dispossession in Rural Central America*.  
**4:40** Maria Luisa Mendonça, PhD\*, University of Rio de Janeiro, *The role of international financial capital in the Brazilian land market*.  
**Discussant(s):** Chris Knudson, University of Arizona

**5583. Learning and Applying Tools in Geography: Interdisciplinary Applications of GIS (Sponsored by Geographic Information Science and Systems Specialty Group, AAG Careers and Professional Development Theme, Geography Education Specialty Group)**

- Room:** Exeter, Marriott, Third Floor (Panel Session)  
**ORGANIZER(S):** Patrick Rickles, University College London  
**CHAIR(S):** Patrick Rickles, University College London  
**Panelists:** Patrick Rickles, University College London; Renee Sieber, McGill University; Michael Gould, Esri; Jon



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Corbett, University of British Columbia-Okanagan;  
Joana Barros, Birkbeck, University of London

**5584. GIS in Weather and Climate II (Sponsored by Geographic Information Science and Systems Specialty Group, Hazards, Risks, and Disasters Specialty Group, Climate Specialty Group)**

Room: *Fairfield, Marriott, Third Floor* (Paper Session)

ORGANIZER(S): Olga Wilhelm

CHAIR(S): Olga Wilhelm

**4:00** Corene J. Matyas, Ph.D.\*, University of Florida; Stephanie E. Zick, Ph.D., Virginia Polytechnic Institute and State University; Jingyin Tang, University of Florida, *Comparing the spatial arrangement of rainband structures observed and simulated for Hurricane Isabel (2003)*.

**4:20** Jessica Williams\*, NOAA - Aircraft Operations Center; Ming-Chih Hung, Ph.D., Northwest Missouri State University, *Spatial Verification of Numerical Weather Model Precipitation Forecasts using GIS*.

**4:40** Jincai Zhao\*, Zheng Wang, *Environmental Vulnerability Assessment at the County Level in China*.

**5:00** Laiyin Zhu\*, Western Michigan University, *Modeling Power Outages in Hurricane Mathew: The Role of Precipitation*.

**5:20** Tomas Holderness\*, Urban Risk Lab, Massachusetts Institute of Technology; Etienne Turpin, Urban Risk Lab, Massachusetts Institute of Technology, *Scaling for Disaster: Urban Risk Map in Indonesia*.

**5587. Spatial Data Mining and Big Data Analytics (2) (Sponsored by Geographic Information Science and Systems Specialty Group, Spatial Analysis and Modeling Specialty Group, Cartography Specialty Group)**

Room: *Salon J, Marriott, Fourth Floor* (Paper Session)

ORGANIZER(S): Caglar Koylu, University of Iowa; Liem Tran, University of Tennessee at Knoxville; Diansheng Guo, University of South Carolina

CHAIR(S): Liem Tran, University of Tennessee at Knoxville

**4:00** Brent Nestor Dell\*, University of Texas At Dallas; May Yuan, Ph.D., University of Texas At Dallas, *Geographic Event Modeling: Human Dynamics of Baltimore, MD*.

**4:20** Jing Gao\*, National Center for Atmospheric Research; Brian O'Neill, National Center for Atmospheric Research, *Modeling Global Spatiotemporal Patterns of Built-Up Lands for Climate Change Impact Assessment*.

**4:40** Shili Chen\*, Sun Yat-sen University, CHN; xun li, Sun Yat-sen University, CHN; haohui chen, Commonwealth Scientific and Industrial Research Organisation, *Scaling Law between Mobility and Facility: Spatiotemporal Data Mining of Guangzhou Subway Data*.

**5:00** Jinglei Jia\*, Jian Peng, *Identification of Poverty Based on DMSP Night Light Data and Machine Learning Algorithm*.

**5:20** Liem T Tran\*, University of Tennessee at Knoxville, *Making sense of big data across scales with hierarchy theory: scaling up variability in population data from Census tract to county, state, and regional levels*.

**5588. Taste in food politics and ecology (Sponsored by Cultural and Political Ecology Specialty Group, Human Dimensions of Global Change Specialty Group, Geographies of Food and Agriculture Specialty Group)**

Room: *Salon K, Marriott, Fourth Floor* (Paper Session)

ORGANIZER(S): Lillian Brown, Indiana University

CHAIR(S): Lillian Brown, Indiana University

Introducer: Lillian Brown

**4:00** Nurcan Atalan-Helicke\*, Skidmore College, *"I am not a yoghurt making mom." Women's definitions of healthy, tasty and genetically engineered food in a Muslim*

*majority country*.

**4:20** Nicolas Fabien-Ouellet\*, University of Vermont, *Poutine Dynamics*.

**4:40** Caitlin Morgan, M.S.\*, University of Vermont, *Taste, class, and choice in Philadelphia: the divide between desire and access for low-income cooks*.

**5:00** Jonas House\*, University of Sheffield, *Insects are not 'the new sushi': The geographies of the (non-)acceptance of novel foods*.

Discussant(s): Amy Trubek

**5591. Historical Geographies, Race, and Ethnicity (Sponsored by Cultural Geography Specialty Group, Historical Geography Specialty Group, Ethnic Geography Specialty Group)**

Room: *Nantucket, Marriott, Fourth Floor* (Paper Session)

ORGANIZER(S): Matthew Cook, Eastern Michigan University

CHAIR(S): Samuel Smith, University of Chicago

**4:00** Andrea R Roberts\*, University of Texas - Austin, *Sacred Stories, Sacred Songs: Oral Tradition and Performance as Preservation in Deep East Texas Freedom Colonies*.

**4:20** Bradley Gardener, PhD\*, Temple University, *Getting Over with the Fans vs Being one of the Boys Backstage: Race and Struggle in Professional Wrestling during the 1970's and 1980's..*

**4:40** Kiley Goyette\*, Concordia University, *Home (in)Security: Competing Visions of Home during «la crise du crack» in Montréal, 1985-1995..*

**5:00** Rebecca Summer\*, University of Wisconsin - Madison, *From Alley Slums to Courts: Clearing Racialized Space in Mid-Century Washington, D.C..*

**5:20** Samuel Smith\*, University of Colorado-Boulder, *Synthetic Spaces of a New West: Historical Narratives in State History Museums*.

**5593. Rescaling Migration, Citizenship, and Rights IV: Empire, Territory, Borders (Sponsored by Political Geography Specialty Group, Socialist and Critical Geography Specialty Group)**

Room: *Orleans, Marriott, Fourth Floor* (Paper Session)

ORGANIZER(S): Harald Bauder, Ryerson University; Jonathan Darling, University of Manchester

CHAIR(S): Lauren Martin, Durham University

**4:00** Emily Mitchell-Eaton\*, University of California - Santa Cruz, *Toward a theory of imperial citizenship*.

**4:20** Kate Coddington\*, Durham University, *Governing through illegality: The differential treatment of refugees across Thai state space*.

**4:40** Karen Culcasi\*, West Virginia University, *Displacing States: Imaginings and Experiences of "the State" for Syrian and Palestinian Refugees in Jordan*.

**5:00** Cathrine Brun, School of Architecture, Oxford Brookes University; Anita H. Fåbos, Department of International Development, Community, and Environment, Clark University; Oroub El Abed, British Academy-Council for British Research in the Levant CBRL, *Abject Citizenship: When categories of displacement collide with categories of citizenship*.

**5:20** Jonathan Darling\*, University of Manchester, *Refuge Outsourced: Distance, Deferral, and Immunity in the Urban Governance of Refugees*.

**5595. Spatial Optimization and Analysis II (Sponsored by Geographic Information Science and Systems Specialty Group, Spatial Analysis and Modeling Specialty Group)**

Room: *Falmouth, Marriott, Fourth Floor* (Paper Session)

ORGANIZER(S): Daoqin Tong, University of Arizona - Geography & Regional Development; Ran Wei, University of Utah

CHAIR(S): Ran Wei, University of Utah

**4:00** Hyun Kim\*, University of Tennessee; Liem Tran, University of Tennessee; Qian Ye, University of Tennessee, *Spatial optimization for spatial*



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*disaggregation of energy consumption using socio-economic data.*

- 4:20** Sandhya Nepal\*, University of Tennessee; Liem Tran, University of Tennessee, *Optimal allocation of land for bioenergy crops under market and production uncertainties.*
- 4:40** Shengyu Zhang\*, University At Buffalo, *Spatial optimization application of snow plowing time and cost in places vulnerable to snow: A case study for the town of Amherst, NY.*
- 5:00** Shuai Jiao\*, Capital Normal University; Jie Yu, Capital Normal University; Anita Simic Milas, Bowling Green State University; Xiaojuan Li, Capital Normal University; Zhanqiang Chang, Capital Normal University; Yanbing Wang, Capital Normal University; Limin Liu, Hubei University Of Education, *The quantitative monitoring of subsidence using SAR: A new method for the elevation phase elimination in high-rise urban areas.*
- 5:20** Gunhak Lee\*, Seoul National University, *Three-dimensional coverage location modeling on continuous space for optimal Wi-Fi ap placement.*

**5596. The Contact Zone III: Navigating the Multispecies Contact Zone with Mary Louise Pratt (Sponsored by Political Geography Specialty Group, Cultural Geography Specialty Group, Development Geographies Specialty Group)**

*Room: Maine, Marriott, Fifth Floor (Panel Session)*

ORGANIZER(S): Jenny R. Isaacs, Rutgers University; Ariel Otruba, Rutgers University

CHAIR(S): Jenny R. Isaacs, Rutgers University

Introducer: Jenny R. Isaacs

Introducer: Ariel Otruba

Discussant(s): Rosemary-Claire Collard, Concordia University; Susan Ruddick, University of Toronto; Elizabeth DeLoughrey, UCLA

Panelists: Helen Frances Wilson, University of Manchester; Mary Louise Pratt, New York University

**5597. Economic restructuring in China-2 (Sponsored by China Specialty Group)**

*Room: Massachusetts, Marriott, Fifth Floor (Paper Session)*

ORGANIZER(S): Xiaobo Su, University of Oregon

CHAIR(S): Jiawen Fang, Luskin School of Public Affairs

**4:00** Bingru Cao\*, Jiangnan University, *Investigating cross-regional counterpart support and precise poverty alleviation model in China -- A case study of Jiangsu and Kirgiz county in Xinjiang.*

**4:20** ZHAO WANG\*, Nanjing Normal University; Shan Yang, Nanjing Normal University; Shuguang Wang, Ryerson University, *Inquest of the urban agglomeration structure in the Yangtze River Delta Region of China.*

**4:40** Xu WANG, the University of Hong Kong, *Economic Upgrading and Working Conditions of Workers in the Pearl River Delta, China.*

**5:00** Jiawen Fang\*, Department of Urban and Regional Planning, Luskin School of Public Affairs, University of California, Los Angeles, *A Research on Venture Capital City Networks of China.*

**5:20** Changhong Miao\*, Center for Yellow River Civilization and Sustainable Development & College of Environment and Planning, Henan University; Zhiqiang Hu, Center for Yellow River Civilization and Sustainable Development, Henan University, *The economic evolution of resources-dependent cities in China: path dependence and resilience.*



*Presenting author(s) are indicated with an asterisk (\*).*

*For special events, please see the Special Events & Meetings Summary on pages 60-66.*

*For the Key to Session Numbers & Room Numbers, please see pages 96-97.*

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1167,1267,1291,1438,1453,1538,1553,1653,2101,2193,2194,2211,2293,2294,2401,2493,2494,2526,2593,2594,3149,3161,3169,3249,3259,3261,3269,3361,3450,3461,3462,3550,3561,3562,3616,3661,3662,3686,4144,4156,4244,4256,4299,4456,4457,4556,4557,4650,4656,4657,5142,5170,5173,5186,5197,5242,5270,5470,5497,5597

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1192,1264,1284,1468,1470,1570,1614,1670,2133,2156,2233,2240,2256,2283,2290,2433,2490,2531,2538,2590,2775,3111,3131,3210,3225,3423,3469,3484,3569,3570,3602,3623,3669,4142,4188,4242,4250,4288,4406,4488,4506,4571,4668,5148,5194,5248,5294,5475,5484,5584

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1153,1155,1156,1172,1181,1228,1253,1256,1272,1281,1406,1455,1456,1472,1481,1484,1506,1550,1556,1584,1623,1656,1684,1696,2108,2128,2138,2153,2208,2228,2238,2249,2408,2453,2457,2468,2477,2504,2508,2553,2597,3119,3155,3160,3188,3224,3249,3265,3266,3304,3417,3428,3482,3483,3510,3517,3582,3593,3610,3617,3621,3667,3681,3693,4116,4164,4166,4182,4195,4216,4264,4267,4416,4450,4464,4473,4477,4487,4516,4550,4564,4573,4577,4616,4631,4664,4673,4677,5149,5172,5175,5191,5249,5258,5273,5291,5465,5473,5483,5496,5573,5591,5596

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4405,4406,4506,4507,4606,5106,5107,5206,5207,5406,5407,5506,  
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1591,1605,1616,1645,1649,1667,1682,1691,2130,2153,2159,2171,  
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1668,2250,2450,2550,3275,3325,3425,3465,3509,3565,3609,3638,3675,  
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1103,1108,1109,1131,1138,1141,1142,1153,1155,1156,1167,1188,1228,1240,1241,1248,1253,1256,1267,1276,1281,1288,1406,1425,1441,1453,1472,1505,1525,1538,1541,1553,1565,1566,1568,1571,1588,1608,1653,1655,1656,1659,1667,1671,1681,2130,2140,2230,2253,2262,2420,2481,2499,2510,2520,2532,2540,2550,2581,2593,3119,3120,3124,3132,3145,3165,3194,3220,3289,3294,3409,3410,3440,3449,3455,3471,3505,3542,3596,3609,3639,3649,3665,4132,4173,4197,4213,4262,4295,4412,4415,4470,4484,4490,4531,4532,4561,4563,4568,4571,4583,4587,4598,4610,4614,4639,4667,4683,4690,5107,5142,5155,5186,5193,5206,5215,5262,5280,5293,5421,5493,5519,5572,5593

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1130,1173,1197,1224,1299,1497,1516,1616,1691,2257,2266,2430,2496,2577,2596,3120,3124,3220,3420,3433,3496,3520,3533,3572,3608,3633,3639,4113,4166,4177,4567,4577,5172,5217,5568

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1128,1185,1210,1409,1459,1468,1496,1528,1529,1570,1629,1670,1696,2123,2223,2405,2420,2428,2473,2484,2489,2505,2520,2595,3120,3128,3207,3220,3420,3520,4102,4110,4112,4120,4171,4196,4212,4220,4268,4288,4406,4531,4607,5188,5210,5215,5238,5477,5488

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1101,1110,1122,1148,1181,1204,1210,1245,1280,1407,1428,1429,1445,1466,1467,1470,1484,1501,1564,1567,1601,2101,2109,2112,2120,2149,2173,2220,2249,2273,2295,2296,2420,2440,2453,2458,2473,2479,2520,2540,2580,3104,3128,3150,3183,3228,3259,3298,3420,3439,3470,3497,3520,3570,3623,3628,3658,3670,3691,4110,4113,4120,4123,4196,4198,4212,4220,4280,4286,4296,4298,4463,4472,4498,4506,4512,4531,4588,4598,4684,5109,5125,5255,5264,5277,5288,5292,5294,5410,5470,5508,5519,5565

## Oceanography

1219,1259,2156,2411,2527,4120,4220,4274,4621,4655,5284,5287

## Pacific Islands

1425,1481,2148,2183,3103,3439,5171,5215,5593

## Pacific Rim

2168

## Paleoenvironmental Change

1185,1285,1409,1485,1509,1529,1585,1609,1622,1685,2120,2121,2129,2131,2209,2220,2431,2483,2484,2531,3108,3111,3131,3420,3520,4102,4110,4120,4220,4556,4655,5238

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1110,1129,1185,1210,1229,1285,1419,1459,1460,1462,1470,1509,1512,1529,1570,1575,1602,1609,1622,1629,1638,1664,1670,1685,2120,2131,2156,2164,2167,2183,2184,2191,2196,2220,2226,2231,2233,2256,2283,2295,2431,2433,2465,2472,2483,2484,2583,2584,3111,3129,3179,3186,3199,3210,3225,3420,3483,3520,3523,3569,3608,3613,3623,3669,4102,4120,4122,4186,4188,4220,4268,4288,4410,4449,4457,4476,4488,4549,4553,4586,4613,4649,4655,5161,5232,5248,5288,5292,5477,5564,5577

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1123,1132,1138,1144,1155,1199,1204,1207,1255,1444,1448,1457,1498,1550,1626,1648,1659,1662,1692,2163,2195,2222,2266,2280,2295,2401,2420,2467,2476,2520,2545,2559,2567,2581,3109,3120,3128,3212,3220,3259,3271,3290,3455,3471,3529,3538,3553,3570,3633,3660,3692,3694,4115,4170,4172,4199,4219,4229,4232,4244,4245,4253,4281,4424,4457,4497,4499,4531,4558,4560,4572,4585,4591,4599,4626,4689,4699,5160,5173,5176,5179,5187,5190,5225,5228,5257,5262,5479,5509,5521,5575

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1181,1248,1445,1598,1629,2120,2220,2227,2256,2291,2427,2433,2468,2527,3210,3212,3296,3439,3495,3512,3591,3612,4120,4171,4209,4220,4449,4506,5198,5415

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1106,1109,1141,1153,1156,1168,1173,1181,1187,1196,1199,1217,1219,1224,1225,1228,1234,1240,1248,1250,1253,1255,1256,1265,1272,1281,1282,1287,1297,1405,1412,1413,1423,1424,1425,1432,1438,1456,1469,1472,1480,1481,1482,1486,1487,1491,1496,1499,1505,1513,1516,1523,1524,1532,1544,1545,1549,1550,1555,1556,1566,1568,1579,1580,1581,1582,1586,1589,1591,1595,1598,1605,1616,1631,1645,1649,1655,1656,1659,1665,1667,1681,1682,1691,1695,2107,2112,2113,2120,2121,2126,2130,2138,2145,2150,2153,2159,2163,2170,2171,2174,2186,2190,2192,2201,2207,2208,2220,2221,2228,2230,2238,2244,2245,2253,2257,2259,2281,2286,2296,2401,2410,2420,2421,2430,2441,2449,2459,2466,2471,2477,2482,2492,2496,2520,2521,2522,2530,2545,2558,2559,2563,2566,2567,2572,2573,2583,2596,2599,3103,3104,3107,3112,3120,3124,3128,3139,3142,3144,3148,3158,3162,3171,3173,3185,3188,3190,3191,3192,3193,3194,3207,3211,3212,3220,3248,3253,3259,3267,3276,3281,3291,3294,3405,3417,3420,3444,3461,3466,3470,3471,3477,3481,3482,3483,3489,3494,3496,3497,3504,3505,3517,3520,3528,3533,3553,3558,3561,3568,3569,3572,3573,3577,3579,3584,3591,3593,3594,3596,3597,3599,3604,3605,3606,3612,3615,3617,3629,3633,3639,3648,3649,3653,3661,3672,3684,3686,3691,4105,4106,4113,4127,4132,4139,4142,4143,4149,4153,4157,4158,4161,4164,4166,4172,4175,4182,4183,4186,4191,4195,4197,4206,4207,4213,4219,4222,4223,4225,4243,4255,4261,4263,4264,4266,4267,4273,4297,4298,4413,4415,4416,4421,4442,4453,4461,4462,4473,4483,4484,4495,4497,4498,4499,4519,4521,4524,4528,4530,4532,4550,4562,4567,4571,4577,4583,4584,4585,4590,

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1105,1112,1132,1187,1188,1223,1248,1253,1267,1270,1281,1288,1290,1292,1294,1441,1453,1525,1538,1586,1588,1595,1597,1608,1626,1653,1655,1668,1688,1697,2120,2175,2205,2220,2274,2281,2420,2441,2444,2450,2457,2476,2481,2494,2520,2550,2569,2570,2589,3120,3158,3167,3220,3241,3275,3289,3401,3409,3440,3441,3461,3468,3486,3499,3509,3538,3540,3542,3572,3605,3644,3650,3662,3694,4145,4173,4197,4241,4262,4274,4457,4462,4490,4521,4557,4563,4590,4615,4662,4690,4691,5142,5173,5176,5180,5214,5228,5272,5274,5280,5406,5424,5428,5476,5507,5509,5528,5530

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1102,1109,1112,1131,1141,1205,1231,1234,1249,1258,1445,1482,1496,1519,1584,1639,1645,1650,1666,1695,2120,2140,2220,2245,2282,2420,2425,2455,2508,2517,2520,2525,2577,2591,3120,3176,3220,3238,3249,3258,3277,3286,3291,3449,3471,3491,3513,3544,3558,3566,3584,3639,3653,3657,3666,3674,3685,3693,4105,4116,4127,4130,4216,4257,4290,4292,4416,4424,4453,4489,4512,4550,4561,4570,4670,4693,5108,5113,5115,5149,5157,5175,5184,5206,5256,5297,5496,5521,5523,5591

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1106,1113,1131,1148,1153,1187,1204,1207,1230,1232,1253,1267,1271,1299,1404,1428,1432,1440,1458,1469,1471,1483,1490,1504,1507,1519,1521,1548,1571,1586,1606,1623,1632,1639,1659,1666,1675,2106,2117,2120,2126,2140,2155,2158,2170,2174,2217,2220,2222,2230,2244,2255,2263,2282,2420,2445,2449,2455,2462,2466,2495,2520,2521,2545,2558,2566,2596,3102,3105,3113,3120,3128,3129,3142,3158,3202,3207,3211,3220,3273,3291,3295,3417,3481,3491,3528,3566,3568,3580,3582,3594,3609,3615,3666,3668,3672,3693,4116,4138,4139,4143,4145,4153,4169,4177,4199,4219,4223,4238,4242,4259,4280,4284,4295,4441,4442,4481,4483,4489,4510,4527,4543,4583,4584,4589,4593,4610,4639,4642,4653,4657,4669,4670,5106,5128,5150,5168,5190,5206,5256,5257,5272,5284,5290,5297,5406,5468,5588

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1116,1141,1142,1144,1160,1173,1189,1250,1259,1265,1290,1294,1419,1445,1458,1459,1464,1465,1466,1473,1476,1492,1502,1507,1509,1529,1542,1545,1555,1559,1566,1567,1576,1597,1598,1601,1602,1603,1604,1626,1659,1666,1697,2113,2120,2126,2133,2139,2164,2168,2170,2175,2177,2180,2195,2205,2220,2226,2265,2420,2425,2429,2439,2440,2442,2455,2469,2479,2508,2520,2525,2539,2540,2542,2583,2599,3103,3120,3121,3129,3141,3145,3157,3165,3166,3175,3190,3220,3241,3242,3257,3276,3409,3420,3438,3440,3441,3442,3458,3466,3499,3509,3520,3527,3529,3540,3589,3642,3644,3655,3662,3676,3683,3687,3690,3699,4112,4116,4120,4141,4159,4169,4202,4220,4240,4241,4263,4269,4281,4286,4287,4291,4292,4294,4299,4404,4412,4441,4462,4463,4470,4475,4492,4521,4538,4541,4568,4575,4579,4591,4599,4609,4615,4630,4641,4672,4691,4692,5106,5109,5114,5139,5176,5180,5196,5214,5225,5238,5239,5287,5294,5406,5413,5465,5487,5526,5532,5576,5587,5595

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1632,2120,2124,2148,2173,2217,2220,2224,2420,2424,2441,2467,2520,2567,3120,3220,3407,3483,3484,3640,3687,3693,4112,4416,4472,4553,4693,5591

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1103,1117,1132,1142,1157,1202,1204,1225,1242,1270,1275,1276,1277,1280,1407,1429,1477,1490,1503,1512,1549,1550,1565,1577,1583,1587,1592,1603,1613,1631,1689,2105,2107,2142,2182,2184,2207,2224,2242,2269,2284,2297,2420,2471,2475,2490,2520,2542,2557,2569,3120,3129,3145,3166,3180,3188,3220,3245,3250,3420,3442,3444,3448,3450,3462,3480,3507,3514,3520,3550,3572,3576,3580,3601,3629,3642,3662,4109,4145,4155,4199,4204,4211,4229,4259,4262,4279,4281,4462,4476,4491,4495,4499,4519,4528,4558,4560,4575,4595,4596,4599,4619,4653,5123,5157,5174,5176,5210,5257,5261,5290,5415,5472,5514

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1128,1131,1162,1173,1231,1256,1495,2224,2253,2457,2458,3105,3133,3181,3249,3409,3572,3608,3665,3667,4106,4241,4484,4489,4516,4574,4641,4653,5186,5191,5280,5291

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1116,1125,1129,1171,1174,1180,1195,1210,1224,1229,1259,1264,1274,1280,1290,1402,1408,1429,1459,1462,1464,1466,1468,1474,1507,1510,1564,1567,1579,1590,1597,1602,1629,1664,1679,1693,2120,2165,2172,2176,2189,2195,2196,2220,2250,2265,2267,2281,2291,2296,2420,2421,2427,2429,2440,2465,2470,2474,2484,2489,2520,2527,2529,2565,2584,2589,3108,3111,3120,3129,3130,3141,3175,3179,3195,3196,3199,3201,3220,3240,3275,3284,3286,3420,3429,3438,3457,3505,3507,3519,3520,3569,3574,3583,3619,3628,3655,3669,3683,3698,4110,4120,4122,4129,4140,4156,4167,4171,4173,4179,4188,4194,4202,4209,4220,4229,4262,4268,4273,4277,4279,4286,4287,4288,4291,4409,4423,4429,4449,4457,4476,4479,4515,4522,4523,4529,4540,4556,4586,4595,4622,4623,4679,5138,5148,5167,5177,5179,5187,5188,5238,5239,5276,5277,5287,5288,5295,5414,5464,5467,5477,5488,5524,5530,5577,5584,5587,5595

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1107,1148,1459,1530,1572,2112,2120,2155,2220,2407,2410,2413,2420,2520,2549,2573,2597,3120,3139,3220,3270,3470,3573,3670,3691,4110,4198,4296,4409,4476,4556,4622,4689,5255,5281

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1102,1103,1140,1424,1456,1472,1513,1519,1524,1606,1656,2106,2190,2206,2245,2280,2406,2420,2492,2506,2520,3258,3295,3449,3540,3566,3621,3657,3666,4238,4464,4493,4555,4567,5169,5269,5423,5465,5506

## Social Geography

1103,1105,1109,1112,1128,1130,1138,1140,1157,1162,1167,1190,1196,1205,1206,1240,1253,1258,1266,1267,1273,1275,1277,1290,1405,1406,1412,1423,1438,1471,1484,1487,1495,1505,1513,1519,1521,1523,1524,1525,1532,1544,1548,1549,1553,1571,1573,1582,1583,1584,1586,1594,1605,1615,1623,1631,1639,1650,1653,1655,1659,1671,1682,2105,2113,2120,2130,2140,2153,2155,2174,2175,2190,2192,2205,2206,2213,2220,2221,2225,2228,2230,2238,2249,2255,2257,2283,2405,2420,2430,2466,2469,2471,2481,2482,2495,2496,2505,2520,2521,2522,2524,2530,2557,2563,2566,2573,2577,2581,2591,3105,3113,3120,3121,3133,3142,3148,3153,3168,3171,3174,3188,3192,3194,3202,3205,3209,3211,3220,3224,3230,3231,3248,3250,3266,3271,3276,3289,3291,3293,3295,3299,3404,3411,3420,3439,3471,3476,3477,3482,3499,3505,3509,3512,3514,3520,3528,3540,3544,3548,3550,3566,3571,3572,3573,3586,3604,3605,3609,3617,3629,3639,3648,3665,3668,3676,4116,4130,4131,4132,4139,4141,4153,4157,4170,4175,4183,4191,4205,4213,4216,4231,4242,4253,4263,4266,4267,4274,4283,4284,4297,4415,4424,4464,4481,4483,4486,4491,4532,4542,4550,4555,4558,4577,4583,4588,4589,4593,4606,4653,4656,4661,4662,4668,4672,4677,4683,4685,4693,4694,5111,5117,5119,5123,5142,5156,5160,5162,5169,5175,5181,5186,5187,5190,5191,5193,5195,5206,5213,5221,5250,5256,5257,5269,5272,5291,5293,5297,5406,5410,5413,5465,5472,5487,5506,5511,5515,5525,5572,5588,5591,5597

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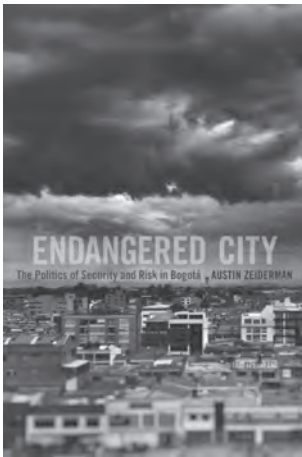
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