



MICHIGAN UNIVERSITY-WIDE SUSTAINABILITY & ENVIRONMENT CONFERENCE 2017

FEBRUARY 9-10 PALMER COMMONS, ANN ARBOR, MI

CONFERENCE PROGRAM

AT-A-GLANCE

THURSDAY, FEBRUARY 9					
5:00 PM	Public Lecture: Robin Leichenko (<i>Great Lakes Room</i>)				
FRIDAY, FEBRUARY 10					
9:00 AM	Session 1. Plenary: Sustainability & Environmental Research at U-M (<i>Great Lakes Room</i>)				
10:30 AM	Morning Break (<i>Atrium</i>)				
11:00 AM	Session 2. Pathways to Improved Sustainability Knowledge (Breakout Sessions)				
	2A. Dynamics of Natural & Social Systems (<i>GL C</i>)	2B. Managing, Coping, and Adapting to Change (<i>Forum Hall</i>)		2C. From Knowledge to Action (<i>GL N</i>)	
12:30 PM	Session 3. Food for Thought: Lunchtime Poster Discussions (<i>Atrium</i>)				
1:30 PM	Session 4. Special Focus Areas in Sustainability (Breakout Sessions)				
	4A. Climate and Health (<i>Forum Hall</i>)	4B. Sustainable Human-Built Environments (<i>GL C</i>)	4C. Attitudes and Governance (<i>GL N</i>)	4D. Sustainable Food Systems (<i>Plaza Room</i>)	4E. Strategies for Improved Collaborative Research and Practice (<i>Board Room 5</i>)
3:00 PM	Afternoon Break (<i>Atrium</i>)				
3:30 PM	Session 5. Plenary: Moving Forward Together (<i>Great Lakes Room</i>)				
5:00 PM	Happy Hour (<i>Mash, 211 E Washington</i>)				
LOCATION GUIDE >>	FORUM HALL	GREAT LAKES C	GREAT LAKES N	PLAZA ROOM	BOARD ROOM 5

Detailed program and attendee roster available online at
bit.ly/muse2017program

THURSDAY, FEBRUARY 9

5:00 pm **Public Lecture**

Location: Great Lakes Room (C/N)

Robin Leichenko, Rutgers University

Vulnerability and resilience at the dawn of the Anthropocene: Opportunities and challenges for interdisciplinary research in a turbulent age

FRIDAY, FEBRUARY 10

8:00 am Check-in and Networking Breakfast

9:00 am **Session 1. Plenary:**

Sustainability & Environmental Research at U-M

Location: Great Lakes Room (C/N)

A high-level overview of the broad range of sustainability and environment research being carried out at U-M. This session will feature a series of shorter talks of particular interdisciplinary interest.

Session Chair: Lizz Ultee (CLASP)

Presenters

Arun **Agarwal** (SNRE), *Wicked Problems in Socio-Ecological Sustainability*

Andrea L. **Brock** (IPCAA), *Environmental Archaeology and Ancient Rome*

Matt **Irish** (CLASP), *An Updated Analysis of Freezing Rain Events in the Great Lakes Region (or: Why Climate Science is Hard, But Worth It)*

Nicole A. **Ryan** (SNRE / ME), *Operational Strategies to Mitigate Life Cycle Environmental Impacts of Using Lithium Ion Batteries for Power System Reserves*

Richard K. **Norton** (URP), *Life, Liberty, and the Pursuit of Happiness: Planning a Sustainable, Just, and Flourishing Society American Style*

10:30 am Break (Sponsored by Michigan Journal of Sustainability)

Location: Atrium

11:00 am **Session 2. Breakout Sessions: Pathways to Improved Sustainability Knowledge**

2A. Dynamics of Natural & Social Systems

Location: Great Lakes C

Studies that help us understand the workings of the systems around us—physical, chemical, ecological, and social. Topics include changes in climate skepticism over time, winter ice cover in the Great Lakes, and assessing human impacts on an ecosystem.

Session Chair: Neil Lewis Jr. (PSYCH)

Presenters (15-minute talks)

Maryam **Arbabzadeh** (SNRE), *Sustainability Assessment Frameworks for Green Energy Storage Systems in Grid Applications*

Michael P. **Hall** (PSYCH), *Climate Change Beliefs in the U.S.: A Longitudinal Perspective*

Karin **Veltman** (EHS), *Nitrogen and phosphorus cycling efficiency in US food supply chains – a national mass-balance approach*

Lightning Talks (5-minute talks): Xiaolong **Ji** (CLASP), *Simulating and forecasting seasonal ice cover* | Ben **Dantzer** (PSYCH), *Conservation physiology: an integrated approach to document effects of humans on wildlife* | Anna M. **Harrison** (SNRE), *Influences of ground-water surface water interactions on metal bioavailability*

2B. Managing, Coping, and Adapting to Change

Location: Forum Hall

Studies exploring human and other species' strategies to respond to environmental change. Topics include species-habitat connectivity, informal footpaths as claim on city life, and the effect of narco-trafficking on deforestation.

Session Chair: Jennifer Carman (SNRE)

Presenters

Benjamin **Morse** (SNRE / FSPP), *The role of observational learning in developing ecotourists' environmentally responsible behavioral intentions*

Joseph R. **Krieger** (SNRE), *Development and evaluation of a habitat suitability model for young Lake Sturgeon (*Acipenser fulvescens*) in the Great Lake Connecting Channels*

Allison **Caine** (ANTHRO), *Moving with the Herd: Mobility as Social Practice and Adaptive Strategy*

Lightning Talks: Bharadwaj **Mantha** (CEE), *Robotic Data Collection and Simulation for Evaluation of Building Retrofit Performance* | Michael **Lerner** (POLSCI), *Networks and the Diffusion of Environmental Policy* | Alec **Foster** (SNRE), *Desire Lines in Detroit: Vacant Land, Green Infrastructure & Mobility* | Jonathan **Sullivan** (SNRE), *Cocaine Carbon: Narco-Trafficking as a Threat to REDD+*

2C. From Knowledge to Action

Location: Great Lakes North

Studies that describe strategies for translating academic knowledge into sustainability action, and/or include a specific intervention made by the researchers. Topics include environmental literacy among youth, participatory workshops, and tools for decision-making.

Session Chair: Fabian Guy Neuner (POLSCI)

Presenters

Sara **Meerow** (SNRE), *Spatial Planning for multifunctional green infrastructure: Growing resilience in Detroit*

Katherine **Browne** (SNRE), *Creative approaches to evaluation: Using multiple data sources to evaluate a participatory workshop in Gabon*

Tim **Williams** (IOE), *Measuring accessibility to core urban services*

Lightning Talks: Edward **Waisanen** (SNRE), *Visualizing Landscape-Level Conservation: Mapping Values and Threats Across Upper Great Lakes Forests* | Patricia D. **Koman** (EHS), *MI-Environment: Understanding Heat Stress Vulnerability and Promoting Climate-Related Health in Michigan* | Jessica **Palace** (SOE), *The Global Impact of Connecting our Youth to Nature*

12:30 pm **Session 3. Food for Thought: Lunchtime Poster Discussions**

Location: Atrium

1:30 pm Session 4. Breakout Sessions: Special Focus Areas in Sustainability

4A. Bridging Climate and Health: Strengthening Research & Engagement

Location: Forum Hall

Co-organized with the School of Nursing. A special session exploring the intersection of the climate and human health.

Session Chair: Sue Ann Bell (School of Nursing)

Opening Address

George **Luber** (Centers for Disease Control & Prevention) via Skype

Keynote Speaker

Jalonne **White-Newsome** (Kresge Foundation)

4B. Sustainable Human-Built Environments

Location: Great Lakes C

A special session focusing on the systems that humans build for themselves. Topics include energy, waste, and infrastructure through several different lenses.

Session Chair: Maryam Arbabzadeh (SNRE)

Presenters

Albert **Thomas** (CEE), *Lightweight and Adaptive Simulation Framework to Deliver Efficient Building Energy and Thermal Comfort Performance*

Dominic J. **Bednar** (SNRE), *Explaining Residential Energy Efficiency: Capturing location and racial disparities of Heating Energy Use*

Catherine **Hausman** (FSPP), *Price Regulation and Environmental Externalities: Evidence from Methane Leaks*

Lightning Talks: Rick **Neitzel** (EHS), *Electronic waste recycling and human health* | Zicheng (Kevin) **Bi** (SNRE), *Assessing and Enhancing the Sustainability of Electrified Vehicles by Wireless Charging* | Tom **Logan** (IOE), *Measuring accessibility to core urban services*

4C. Attitudes and Governance

Location: Great Lakes N

A special session focusing on human actions and interactions. Topics include attitudes toward resources, environmental governance, and the Earth itself.

Session Chair: Sara Meerow (SNRE)

Presenters

Fabian Guy **Neuner** (POLSCI), *Public Opinion and the legitimacy of global private environmental governance*

Julia D. **Liao** (PSYCH), *Thinking about the Earth: Predicting pro-environmentalism from individual differences in Earth concepts*

Sachiko **Graber** (SNRE) & Tara **Narayanan** (SNRE), *Solar microgrids in rural India: Consumers' willingness to pay for attributes of electricity*

Lightning Talks: Sarah **Mills** (FSPP), *Community Acceptance of Wind Energy* | Hans **Czap** (SocSci/Econ, Dearborn), *Upstreamers' right to pollute or downstreamers' right to clean water - the effect of reassigning property rights* | Gabriel **Harp** (ArtsEngine), *Short-Lived Climate Pollutants, Cultural Cognition, and the Arts*

4D. Sustainable Food Systems

Location: Plaza Room

Co-organized with the Sustainable Food Systems Initiative. A special session panel of researchers from

different U-M departments, each taking distinct but related approaches to crafting a more sustainable food system locally and worldwide.

Session Chair: Alison King (SNRE)

Presenters

Andrew **Jones** (SPH), *Repositioning biodiversity as central to supporting healthy diets*

Meha **Jain** (SNRE), *Satellites for Sustainable Agriculture*

Lesli **Hoey** (Urban Planning), *Striving for equity-based food systems change: Michigan's experience applying a collective impact approach*

John **Vandermeer** (EEB), *The political framework for food system transformation*

Lightning Talks: Brent R. **Heard** (SNRE), *The effects of expanded refrigeration on food waste in the developing world* | Brett **Seabury** (SSW), *Sustainability: Regenerative Agriculture*

4E. Strategies for an Improved Collaborative Research and Practice

Location: Board Room 5

A special session bringing together panelists from current interdisciplinary initiatives who will share their approaches to fostering ongoing collaborations across departmental boundaries.

Session Chair: Samantha Basile (CLASP)

Presenters

John **Callewaert** (Graham), *Fostering Collaborative Sustainability Solutions*

Joseph P. **Smith** (CILER), *Big Data on the Web*

Anya **Ovchinnikova** (ICPSR), *Using SEAD to Support Sustainability Collaboration*

Meghan **Wagner** (SNRE), *Michigan Sustainability Cases: Redefining Sustainability Education*

3:00 pm Break (Sponsored by School of Nursing)

Location: Atrium

3:30 pm Session 5. Plenary: Moving Forward Together

Location: Great Lakes Room (C/N)

Facilitated discussion on how U-M's sustainability and environment-related researchers can move together as a stronger community. Thoughts and questions from non-presenting attendees are welcome and encouraged during this time. We hope to leave the conference feeling more connected, more aware, and more empowered to pursue innovative, collaborative research.

Session Chair: James Arnott (SNRE)

Panelists

Nicole **Berg** (Graham)

Barbara **Hagan** (OCS)

Bill **Currie** (SNRE)

Ojaswi **Adhikari** (SPH)

Robin **Leichenko** (Rutgers University)

4:30 pm Adjourn

Join us at 5:00 pm for a **Happy Hour Mixer at Mash** (211 E Washington Street)
Food provided. Show your completed survey for a free drink ticket!

Departmental Abbreviations

ANTHRO – Department of Anthropology; **CEE** – Department of Civil & Environmental Engineering, College of Engineering; **CILER** – Cooperative Institute for Limnology and Ecosystems Research; **CLASP** – Department of Climate and Space Sciences & Engineering, College of Engineering; **EEB** – Department of Ecology and Evolutionary Biology; **EHS** – Department of Environmental Health Sciences, School of Public Health; **FSPP** – Ford School of Public Policy; **Graham** – Graham Sustainability Institute; **IPCAA** – Interdepartmental Program in Classical Art & Archaeology; **ICPSR** – Interuniversity Consortium for Political and Social Research; **IOE** – Department of Industrial & Operations Engineering, College of Engineering; **ME** – Department of Mechanical Engineering, College of Engineering; **PSYCH** – Department of Psychology; **OCS** – Office of Campus Sustainability; **POLSCI** – Department of Political Science; **SNRE** – School of Natural Resources & Environment; **SPH** – School of Public Health; **SOE** – School of Education; **SSW** – School of Social Work; **URP** – Department of Urban and Regional Planning, Taubman College

ACKNOWLEDGEMENTS

MUSE Sponsors

School of Natural Resources & Environment
Rackham Interdisciplinary Workshop on Sustainability, Environment & Society
School of Nursing
Michigan Journal of Sustainability

MUSE Organizing Committee

Maryam Arbabzadeh (SNRE); Samantha Basile (CLASP); Jennifer Carman (SNRE); Sedona Chinn (Communication Studies); Megan Czerwinsky (Nursing); Paul Glaum (EEB); Alison King (SNRE); Joseph Krieger (SNRE); Neil Lewis, Jr. (PSYCH); Sara Meerow (SNRE); Fabian Guy Neuner (POLSCI); Lizz Ultee (CLASP); *Chair*: James Arnott (SNRE)

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