

Wednesday, February 14

12:00 - 12:30pm

Registration

12:30 – 2:00pm	Welcoming Plenary: S. Parrish, K. Hummel, & A. Foster (Ballroom)
2:00 – 3:30pm	Workshop Part 1 (parallel sessions)
	I. Climate Systems (Room 4, 1 st Floor)
	II. Urban Systems (Hussey)
	III. Energy Systems (Kalamazoo)
	IV. Agricultural and Food Systems (Room D, 3 rd Floor)
3:30 – 5:30pm	Poster Reception and Lightning Talks (Ballroom)
	Thursday, February 15
8:00 – 9:00am	Breakfast (Concourse)
9:00 – 9:30am	Plenary: Seth Guikema (Vandenberg)
9:30 – 11:00am	Presentations (parallel sessions)
	1. Environmental Risk and Behavior (Hussey)
	2. Environmental Decision-making and Policy (Kalamazoo)
	3. Urban Environments and Infrastructure (Michigan)
	4. Land Use and Land Cover Change (Vandenberg)
11:00 – 11:30am	Coffee break (Concourse)
11:30 – 1:00pm	Presentations (parallel sessions)
	5. Energy Norms and Futures (Hussey)
	6. Sustainable Food and Agriculture (Michigan)
	7. Perceptions of Science and the Environment (Vandenberg)
1:00 – 2:00pm	Lunch (Concourse)
2:00 – 3:30pm	Workshop Part 2 (parallel sessions)
	I. Climate Systems (Room 4, 1 st Floor)
	II. Urban Systems (Hussey)
	III. Energy Systems (Kalamazoo)
	IV. Agricultural and Food Systems (Michigan)
3:30 - 5:00pm	Concluding Panel (Vandenberg)
6:00 – 8:00pm	Public Reception – RSVP required (Zingerman's Greyline)

Wednesday, February 14

12:30pm Welcome Plenary (Ballroom)

Keynote: Susan Scott **Parrish** (English/PitE)

The Flood Year 1927: A Case for

Interdisciplinary Environmental History

Katherine **Hummel** (English), *Aerial Photography and the Multi-Scalar Challenges of Sustainability in Post- Hurricane Haiti and Puerto Rico*

Alec **Foster** (SEAS), *Detroit, How Does Your Garden Grow? The Potential and Challenges of Scaling-Up Urban Agriculture in the Motor City*

2:00pm Parallel Workshops, part 1

Climate Systems (Room 4, 1st Floor)
Panel: Frank **Marsik** (CLASP), Jonathan
Overpeck (SEAS), Carina **Gronlund** (SPH)

Urban Systems (Hussey)

Panel: Larissa Larsen (URP), Josh Newell (SEAS)

Energy Systems (Kalamazoo)

Panel: Margaret **Wooldridge** (ME), Daniel **Raimi** (Ford), Joe **Arvai** (Ross/SEAS)

Agricultural/Food Systems (Room D, 3rd Floor)
Panel: Arun Agrawal (SEAS), Lesli Hoey
(URP), Julia Wolfson (SPH)

3:30pm Poster Reception (Ballroom)

5:30pm Adjourn

Thursday, February 15

8:00am Registration Breakfast (Concourse)

9:00am Plenary (Vandenberg)

Seth **Guikema** (IOE)

Resilience and Sustainability in Disaster-Prone Communities

9:30am Parallel Presentations, session 1

1. Environmental Risk and Behavior (Hussey)
Daniel Raimi (Ford): The Fracking Debate
Tom Logan (IOE): Engineered climate
adaptations can increase vulnerability to
natural hazards

Sam **Russel** and Hanna **Droessler** (SEAS):

Livelihood and climate adaptation of Indian famers

Kaitlin **Raimi** (Ford): *Individual Differences in* (*Dis*)*comfort with Altering the Natural* World: The Tampering with Nature (TWN) Scale

Julia **Liao** (Psyc): *Using Earth Concepts to Effectively Tailor Pro-Environmental Messages*

Sara **Goto** (SEAS): The influence of generational difference on loss aversion and risk taking

2. Environmental Decision-making and Policy (Kalamazoo)

James **Arnott** (SEAS): *The making of effective decision-maker scientist partnerships*

Margaret **Wooldridge** (ME): From biofuel chemistry to biofuel policy: On how scientific findings can—and should—inform policy-making

Michael **Lerner** (Polsci): Too Many Cooks in the Kitchen? The Consequences of Fragmented Jurisdictions for Environmental Policymaking

Anna **White** (IOE): Persistent Patterns of Discriminatory Housing Policy and Inequity Sarah **Mills** (Ford): The wind siting paradox: Climate denialism in America's windiest places

Dominic **Bednar** (SEAS): *Defining Lines: Terminology and Methodological Approaches Toward Household Energy Justice*

3. Urban Environments and Infrastructure (Michigan)

Thomas **Moran** (URP): Building Post Rock Jim **Gawron** (SEAS): Life Cycle Assessment of Connected & Automated Vehicle Subsystems

Mark **Lindquist** (SEAS): *U3D-DSS: A Novel Decision Support System for Community Directed Green Infrastructure Design*

Stefania **Almazán** (SEAS): *Exploring household* willingness to participate in solid waste collection services in Liberia

Austin **Martin** (SEAS): The native bees of Detroit's neighborhoods: how human social variables influence native bee communities

4. Land Use & Land Cover Change (Vandenberg)

Manish **Verma** (CSCAR): Remotely Sensed Solar Induced Fluorescence for Spatiotemporal Monitoring of Terrestrial Ecosystems

Ripudaman **Singh** (ME): *Identifying Optimal Locations for Production of Cellulosic Ethanol for Use in the Transportation Sector in Ghana*

Cynthia **Gerlein-Safdi** (CLASP): *Using remote* sensing to estimate the effects of reforestation policy in the fight against desertification in China

Patricia **Koman** (EHS): Wildland Fire Smoke Exposures and Cardiopulmonary Health Andrew **Bernard** (Anthro): Distinguishing the effects of climate change: primates, their

habitat, and their food 11:00am Coffee Break (Concourse)

11:30am Parallel Presentations, session 2

5. Energy Norms and Futures (Hussey)

Patrick **Thomas** (SEAS): Can ecological theory help us fuel and feed the world with algae?

Tae **Lim** (ME): Technical and economic feasibility of climate intervention in the U.S. electricity sector with direct air capture

Stephanie **Ross** (EECS): *Stability of Increasingly Renewable Grids*

Kwonsik **Song** (CEE): *Non-Invasive*Personalized Normative Messaging
Intervention for the Reduction of Household
Energy Consumption

Lars **Junghans** (URP): Concept 22/26, Future of high performance Buildings

Doug **Kelbaugh** (URP): *URBAN COOL, Heat, Health and Habitat in the Anthropocene*

6. Sustainable Food and Agriculture (Michigan)

Brent **Heard** (SEAS): Anticipating the Effects of Emerging Technologies on Food System Sustainability

Jesse **Contreras** (Epi): Health risks from exposure to untreated wastewater used for irrigation in the Mezquital Valley, Mexico: A 25-year update

Alison Bressler (SEAS): Cover Crop "Cocktails" for Conservation: Ecological Nutrient Management in Mixtures vs. Monocultures Lauren Schmitt (SEAS): Shedding light on the shade: leaf litter decomposition in shaded coffee agro-ecosystems

Mariana **Valencia** (EEB): *A Chayanovian* analysis of tree management among Panamanian farmers

7. Perceptions of Science and the Environment (Vandenberg)

Caitlin **Drummond** (Erb): *Historical Trends in Ideological Polarization of Science*

Jennifer **Carman** (SEAS): *Conceptually* mapping middle school students' knowledge of climate change science

Abigail **Dumes** (Anthro): *Lyme Disease,*"Nature," and Environmental Risk in the
United States

Robert **Goodspeed** (URP): Analyzing Stakeholder Uncertainty Perceptions to Advance Collaborative Sustainability Science

Katie **Williamson** (SEAS): *Mental Maps, Envisioning, and Community-based Climate Adaptation in Coastal Connecticut*

Jacqueline **Cardoza** (SPH): Sustainable Living Experience's Evaluation of Themed Residential Housing as an Influencer to Students' Sustainability Awareness and Behaviors

1:00pm Lunch (Concourse)

2:00pm Parallel Workshops, part 2

Climate Systems (Room 4, 1st Floor) Guest: Maria Carmen **Lemos** (SEAS)

Urban Systems (Hussey) Guest: Joe **Grengs** (URP) **Energy** Systems (Kalamazoo)

Guest: Sarah **Mills** (Ford)

Agricultural/Food Systems (Michigan)

Guests: Melissa **Zaksek** (Erb/Graham), Terry

Nelidov (Erb)

3:30pm Concluding Panel (Vandenberg)

5:00pm Adjourn

About the Michigan University-Wide Sustainability and Environment Initiative

The pace and scale of global environmental changes to Earth systems and the pivotal role humans are playing in driving those changes have introduced challenges which confront science and society. Although many scholars are working in this area, these challenges are far from solved. Tackling these challenges requires communication and collaboration both within



academia and between researchers and the public. The Michigan University-Wide Sustainability and Environment (MUSE) Initiative was founded to bring together emerging scholars to foster this crucial dialogue and encourage collaborations. MUSE consists of a bi-weekly workshop, an online network of scholars, and this annual conference.

So, we warmly welcome you to the 2nd annual MUSE Conference! The conference's goals are to bring together the immense array of sustainability and environment related research that we are doing here at the University of Michigan, Ann Arbor and foster on-going connections and collaborations. The conference is a constructive environment where we will share ideas and be open to the differences between disciplinary approaches – recognizing, embracing, and exploring this diversity is what will make our research richer and perhaps provide it that extra impact, so that together we can make real change in this world.

We offer our sincere thanks to our sponsors without whom this conference would not be possible.

Sponsors: School for Environment and Sustainability, College of Engineering, Rackham Graduate School, School of Public Health, College of Literature Science and Arts, Climate and Space Sciences and Engineering, Political Science, Industrial and Operations Engineering, Erb Institute | Business for Sustainability

MUSE Conference 2018 Organizing Committee:

Chair: Lizz Ultee (Climate and Space Sciences and Engineering)
Katie Browne (School for Environment and Sustainability)
Jennifer Carman (School for Environment and Sustainability)
Sara Goto (School for Environment and Sustainability)
Brent Heard (School for Environment and Sustainability)
Michael Lerner (Political Science)
Tom Logan (Industrial and Operations Engineering)
Matt Villeneuve (History)
Tim Williams (Industrial and Operations Engineering)
Emily Yang (Climate and Space Sciences and Engineering)

Learn more about MUSE: https://muse-initiative.umich.edu
Join us for the MUSE Social event: 5pm March 16, Detroit Street Filling Station