



# iSEE Congress 2017

## Building Resilience to Climate Change

Organized by Institute for Sustainability, Energy, and Environment (iSEE)  
Sept. 18-20, 2017

Alice Campbell Alumni Center, University of Illinois at Urbana-Champaign



### Monday, Sept. 18

#### 5-5:15 p.m. — Welcome

- Robert J. Jones, Chancellor, University of Illinois at Urbana-Champaign

#### 5:15-6:30 p.m. — Keynote Address

Moderator **Evan H. DeLucia, Baum Family Director of iSEE, University of Illinois at Urbana-Champaign**

- John Holdren, Former Director of the White House Office of Science and Technology Policy — “The Case for Investing in Climate Change Resilience: Insights from Science, Engineering, and Economics”

#### 6:30-7:15 p.m. — Reception and Student Poster Presentations

#### 7:30-9 p.m. — Dinner by Invitation

### Tuesday, Sept. 19

#### 8-8:30 a.m. — Registration

#### 8:30-8:45 a.m. — Opening Remarks

- Evan H. DeLucia, Baum Family Director of iSEE, University of Illinois at Urbana-Champaign

#### 8:45-10:15 a.m. — Session I: “Regional Climate Effects: Building Resilience”

Moderator **Lisa Ainsworth, Associate Professor of Plant Biology, University of Illinois at Urbana-Champaign**

- Donald Wuebbles, Preble Professor of Atmospheric Sciences, University of Illinois at Urbana-Champaign — “The Climate Science Special Report: An Assessment of the Science of Climate Change”
- Thomas W. Hertel, Professor of Agricultural Economics, Purdue University — “Assessing the Inter-regional Incidence of Climate Impacts on Agriculture”
- Kaiyu Guan, Assistant Professor of Natural Resources and Environmental Sciences, University of Illinois at Urbana-Champaign — “Impact and Adaptation of Agroecosystems to Climate Change in the U.S. Corn Belt”

#### 10:15-10:30 a.m. — Coffee Break

#### 10:30 a.m.-noon — Session II: “Vulnerability of Agriculture and Ecosystems to Climate Change”

Moderator **Carla Cáceres, Director of School of Integrative Biology, University of Illinois at Urbana-Champaign**

- Donald Ort, Emerson Professor of Plant Biology, University of Illinois at Urbana-Champaign — “More than Taking the Heat”
- Maximilian Auffhammer, Pardee Professor of Sustainable Development, University of California Berkeley — “Regional Crop Diversity and Weather Shocks in India”
- Amy W. Ando, Professor of Agricultural and Consumer Economics, University of Illinois at Urbana-Champaign — “Conservation Planning in the Face of Climate Change”

**Noon-1:30 p.m. — Lunch and Keynote Address**

**Moderator Gillen D’Arcy Wood, Langan Professorial Scholar of Environmental Humanities of English, University of Illinois at Urbana-Champaign**

- Justin Gillis, Global Climate Change Journalist and Author — “Climate Change: Where Do We Stand in 2017?”

**1:30-3 p.m. — Session III: “Land Use and Ecosystem Impacts of Climate Change”**

**Moderator Jeffrey Brawn, Head of Department of Natural Resources and Environmental Sciences, University of Illinois at Urbana-Champaign**

- Atul Jain, Professor of Atmospheric Sciences, University of Illinois at Urbana-Champaign — “Interactive and Cumulative Effects of Climate and Land-use Changes on Terrestrial Ecosystems”
- Daniel P. Schrag, Director of Center for the Environment and Director of Science, Technology, and Public Policy Program, Harvard University — “The Timescale of Climate Change Impacts on Land and Ocean”
- Brian Allan, Associate Professor of Entomology, University of Illinois at Urbana-Champaign — “Potential Consequences of Climate Change for Infectious Disease Dynamics”

**3-3:15 p.m. — Coffee Break**

**3:15-5 p.m. — Session IV: “Adapting to Climate Change”**

**Moderator Sarah Taylor Lovell, Associate Professor of Crop Sciences, University of Illinois at Urbana-Champaign**

- Mark Rosegrant, Director of the Environment and Production Technology Division, International Food Policy Research Institute — “Climate Change Impacts on Agriculture and Adaptation and Mitigation Policies to 2050”
- Gernot Wagner, Research Associate in Engineering and Applied Sciences, Harvard University — “Solar Geoengineering as Part of an Optimal Climate Policy Portfolio?”
- Arun Agrawal, Dana Professor of Natural Resources and Environment, University of Michigan — “Everyday Adaptations to Climate Risks: How Well Do Climate Policies Take into Account What People Do?”
- Praveen Kumar, Lovell Professor of Civil and Environmental Engineering, University of Illinois at Urbana-Champaign — “Role of Technology in Adaptation to Climate Change”

**5-6 p.m. — Reception and Student Poster Presentations**

**6:30 p.m. — Dinner by Invitation and Performance by Jennifer Monson, Professor of Dance, University of Illinois at Urbana-Champaign**

**Wednesday, Sept. 20**

**8 a.m. — Registration**

**8-9 a.m. — Session V: “The Human Impacts of Climate Change: Causes and Solutions”**

**Moderator Pradeep Dhillon, Associate Professor of Education Policy, Organization, and Leadership, University of Illinois at Urbana-Champaign**

- Julian Reif, Assistant Professor of Finance, University of Illinois at Urbana-Champaign — “Air Pollution, Health, and Medical Spending”
- Christopher Preston, Professor of Philosophy, University of Montana — “Climate Justice and Community: A Care Approach to Impacts Identification”

**9-10:15 a.m. — Session VI: “Economic and Social Vulnerabilities to Climate Change”**

**Moderator Ben Crost, Professor of Agricultural and Consumer Economics, University of Illinois at Urbana-Champaign**

- Robin Leichenko, Professor and Chair of Geography, Rutgers University — “Economic Vulnerability to Climate Change in Coastal Regions: Opportunities and Challenges for Building Resilience”
- Jesse Ribot, Professor of Geography and Geographic Information Science and Director of Social Dimensions of Environmental Policy Program, University of Illinois at Urbana-Champaign — “Vulnerability and Migration: Climate of Distress in the West African Sahel”
- Sandy Dall’erba, Associate Professor of Agricultural and Consumer Economics, University of Illinois at Urbana-Champaign — “Measuring the Economic Impact of Climate Change: Recent Advances and Remaining Challenges”

**10:15-10:30 a.m. — Coffee Break**

**10:30 a.m.-noon — Session VII: “Panel on Public-Private Actions to Adapt to Climate Change”**

**Moderator Madhu Khanna, ACES Distinguished Professor of Environmental Economics, University of Illinois at Urbana-Champaign**

- Dion McBay, Vice President of Global Sustainable Development, Monsanto Co.
- Bill Northcott, Chief Innovation Officer, Agrible Inc.
- Stephen Smith, Technology Transfer Leader, Dow AgroSciences
- Jim Angel, State Climatologist, Illinois State Water Survey, Prairie Research Institute

**Noon-1:30 p.m. — Lunch and Keynote Address**

**Moderator Don Fullerton, Gutsell Professor of Finance and Institute of Government and Public Affairs, University of Illinois at Urbana-Champaign**

- Matthew E. Kahn, Professor of Economics and Spatial Science, University of Southern California — “A Microeconomic Perspective on the Adaptation Challenge”

**1:30 p.m. — Closing Remarks**

- Evan H. DeLucia, Baum Family Director of iSEE, University of Illinois at Urbana-Champaign