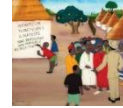




NATURAL RESOURCES
AND ENVIRONMENT



**Beckman Institute for Advanced
Science and Technology**
University of Illinois at Urbana-Champaign



Social
Dimensions of
Environmental
Policy



ILLINOIS
UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

ICARUS

**INITIATIVE FOR CLIMATE ADAPTATION RESEARCH AND
UNDERSTANDING THROUGH THE SOCIAL SCIENCES**

Climate Vulnerability and Adaptation: Theory and Cases
Workshop¹

10-13 February 2010
The Beckman Institute
University of Illinois, Urbana Champaign
Beckman Institute
405 North Mathews Avenue, Urbana, IL
([map](#))

¹ This ICARUS workshop and an upcoming ICARUS workshop this spring at the University of Michigan are sponsored by the Social Dimensions of Environmental Policy (SDEP) Initiative of the Department of Geography, School of Earth Society, and Environment and Beckman Institute at the University of Illinois and the International Forestry Resources and Institutions research initiative (IFRI) and the School of Natural Resources and Environment (SNRE) of the University of Michigan. SDEP is supported by the University of Illinois' Beckman Institute, Dean of LAS, and office of the Vice Chancellor for Research. Additional support for this SDEP event has been provided by Center for Latin American and Caribbean Studies (CLACS) at the University of Illinois.

ICARUS Workshop Agenda

Wednesday, February 10

- 4:30-6:00** **ICARUS Keynote Address and SDEP Climate and Society Public Lecture**
Speaker: **Robin Mearns**, Social Development Department of The World Bank
Room 5602 Beckman
Title: “Social Dimensions of Climate Change: From Principles to Practice at the World Bank”
Discussants:
 Tom Bassett – *Department of Geography, University of Illinois*
 Wesley Jarrell - *Professor of Natural Resources and Environmental Science and Director of Environmental Change Institute*
- 6:00** **Wine and Cheese Reception** immediately following Mearns talk in 5th Floor Tower Room

Another Related Event at University of Illinois on Wednesday, 10 February

- 3:00** Talk: “Deforestation and the Future of the Amazon”
 Speaker: Daniel P. Munari of the Instituto Nacional de Pesquisas da Amazonia (INPA), Brazil.
 Venue: Lemann Institute for Brazilian Studies & Center for Latin American and Caribbean Studies, 101 International Studies Building, 910 S. Fifth St. (fifteen-minute walk from hotels.)

Thursday, February 11

8:00 Doors and Registration Open

Room 5602 Beckman – All events are held at the Beckman Institute

8:30-9:00 Opening Session

Room 5602

Ben Orlove, Anthropology, University of California, Davis

Jesse Ribot, Geography, University of Illinois

- Objectives
- Structure of workshop
- Aims of Parallel Sessions
- ICARUS II/International Conference on Climate, Sustainability and Development in Semi-arid Regions (ICID)
- Introductory exercise

9:00-10:00 Keynote: Jesse Ribot: “Vulnerability does not Fall from the Sky”

Room 5602

Discussants:

Roch Mongbo, Agronomy and Socio-Anthropology, Université d'Abomey Calavi, Bénin

Ashwini Chhatre, Department of Geography, University of Illinois

10:00-10:20 Coffee Break 5th Floor Vestibule

10:20-12:30 First Parallel Panel Session: Vulnerability, Adaptation, Institutions

Vulnerability Panel I: Drivers of Vulnerability – Room 3269

Chair: Rohit Nagi, Global Studies, University of Illinois

- Kelly Hopping, University of Colorado: “Vulnerability to Snowstorms of Tibetan Pastoral Socio-ecological Systems”
- Kristian Thor Jakobsen, UNEP Risoe Centre on Energy: “Climate and Sustainable Development: determinants of poverty transitions in rural Nicaragua”
- Roch L. Mongbo, Université d'Abomey-Calavi: “Climate vulnerabilities and adaptations on a water complex in Benin: a conceptual framework”
- Elizabeth Marino, University of Alaska: “Environmental migration, climate change and social theory: a study in disparity and movement”

Adaptation Panel I: Choosing Adaptation – Room 5602

Chair: Robin Mearns, The World Bank

- Kendra McSweeney, Ohio State University: “Vulnerability, Resilience, and Unexpected Adaptation: Long-term Outcomes of Hurricane Mitch in Rural Honduras”
- Olubukola Oyerinde, Federal University of Technology, Nigeria: “Analysis of the Determinants of Farmers’ Choice of Adaptation Strategies and their Perception on Climate Change in the Rainforest Zone of Nigeria”
- Denis Gautier, CIRAD: “Herders’ adaptation to a political climate change in Northern Mali”

- Harry Fischer, University of Illinois at Urbana-Champaign: “The multiple dimensions of vulnerability: livelihoods, assets, and institutions in the Indian Himalayas”
- Julia Z. McDowell, Emory University: “Economic and Climatic Adaptation in Highland Bolivia”
- Netra Chhetri, Arizona State University: “Induced Innovation: A Conceptual Approach in Understanding Agricultural Adaptation to Climate Change”

Institutions Panel I: Local Institutions and Climate Adaptation – Room 4269

Chair: Brian Dill, Department of Sociology, University of Illinois

- Daivi Rodima-Taylor, Boston University: “Culture and Institutional Adaptation to Vulnerability: Self-Help Institutions in Decentralizing Tanzania”
- Jephine Mogoi, CGIAR: “Strong Local Institutions in Natural Resource Management for Effective Resilience against Climate Change Effects”
- Felipe Murtinho, University of California Santa Barbara: “Understanding Adaptation to Climate Variability: Challenges and Opportunities of Community Based Water Management”
- Siri Eriksen and Elin Selboe, University of Oslo: “The social organization of local climate adaptation in Norway”
- Carol Farbotko, University of Wollongong: “Indigenous Knowledge, Migration and Adaptation in the Pacific”

12:30-1:30 **Lunch** – Room 5269

1:30-3:30 **Second Parallel Panel Session: Vulnerability, Adaptation Institutions, Methods**

Vulnerability Panel II: Climate Interventions and Forests – Room 3269

Chair: Ashwini Chhatre, Department of Geography, University of Illinois

- Eric Coleman, Florida State University: “Do Common Property Rights Facilitate Local Adaptation to External Disturbance? Cross-National Evidence in Forestry”
- Kimberly Suiseeya, Duke University: “Is Laos Ready for REDD? The Impact of Climate Change Policies on Human Security”
- Betsy Beymer and Tom Bassett, University of Illinois at Urbana-Champaign: “The REDD Menace: Increasing Vulnerability through Adaptation in Tanzania’s Mangrove Communities”
- Jamie McEvoy, University of Arizona: “Technology and Adaptation: Framing Desalination in Northwestern Mexico”

Adaptation Panel II: Vulnerability, Adaptation & Policy Processes I – Room 5602

Chair: Lisa Dilling, Environmental Studies, University of Colorado

- Julia Ekstrom, Lawrence Berkeley National Laboratory: “A Guiding Framework for Barriers to Planned Climate Change Adaptation”
- Jessica Ayers, DESTIN – London School of Economics and Political Science: “Can climate change adaptation policy be deliberative? Some lessons from Bangladesh”
- Felicia Solomon, University of Nairobi: “Governance and Climate Change: A Case of Kenya”
- Rebecca Witter, University of Georgia: “Engaging Human Displacement Policy-Making in the Age of Climate Action”
- Caroline Upton, University of Leicester: “Adaptive Capacity and Institutional Evolution: Donor Interventions in Pastoral Societies”

Institutions Panel II: Climate and Conflict – Room 1237

Chair: Jeremy Brooks, Beckman Institute Post-Doctoral Fellow, University of Illinois

- Jurgen Scheffran, University of Hamburg: “Integrated Concepts and Adaptive Strategies for Addressing Social Vulnerability to Climate Change: the Case of the Mediterranean Region”
- Gillen Wood, Department of English, University of Illinois at Urbana-Champaign: “Tambora 1815: A Case History in Drastic Climate Change”
- Jamesy Owen, University of Colorado: “Resource Shortage, Conflict and Local Management in Arid Sub-Saharan Africa: The Cases of Sudan, Nigeria and Kenya”

Methods Panel I: Vulnerability and Adaptation Assessment – Room 4269

Chair: Andy Bruno, Department of History, University of Illinois

- Eric Gordon and Lisa Dilling, University of Colorado: “An Empirical Approach to Defining Success in Adaptation”
- Eric Anderson, CATHALAC: “Ecosystem Vulnerability to Climate Change in Panama”
- Karim-Aly Kassam, Cornell University: “Applying a Socio-Cultural and Ecological Lens to Assess the Impact of Climate Vulnerability and Adaptation in Alpine and Arctic Regions”
- Paul McLaughlin, SUNY Geneseo: “Climate Change, Vulnerability and Adaptation: Reconceptualizing Societal-Environment Interaction within a Socially Constructed Adaptive Landscape”

3:30-4:30 **Coffee Break + Rapporteur Preparation for Plenary**

4:30-6:00 **Plenary Discussion of First and Second Sessions of Parallel Panels – Vulnerability, Adaptation institutions, and Methods Themes**
Chair: Ben Orlove
Room 5602

7:30 **Conference Dinner** at Café Luna – Bus will leave from in front of your hotel at 7:20PM. Alternatively you can walk (about 15 minutes) to 116 North Chestnut Street, Champaign (<http://www.luna-cu.com/>, phone 1 217 356-5862). Just walk up University Avenue past the train bridge and make the first right after the bridge on to Chestnut Street (10-15 minutes). We will also give you a bus schedule.

Friday, February 12

8:30-9:30 Keynote: Arun Agrawal: “Vulnerability Profiles and Adaptation”

Discussants:

Kendra McSweeney, Ohio State University

Jessica Ayers, London School of Economics and Political Science
Room 5602

9:30-10:00 Coffee Break – 5th Floor Vestibule

10:30-12:30 Parallel Panel Session III: Vulnerability, Adaptation, Methods

***Vulnerability Panel III: Climate Vulnerability and Adaptation in Urban Areas* – Room 1003**

Chair: Brian Dill, Department of Sociology, University of Illinois

- Patricia Romero Lankao, UCAR: “Vulnerability to Air Pollution and Weather Across and within Latin American Cities”
- Julien Rebotier, Université du Québec: “Politicizing risk assessment on vulnerability conditions in order to improve adaptive capacity”
- Paul Coseo, University of Michigan: “Green Alleys: The design of sustainable infrastructure, its usefulness in urban heat island mitigation, and the adaptation of neighborhood landscapes in Chicago”

***Adaptation Panel III: Vulnerability, Adaptation & Policy Processes II* – Room 4269**

Chair: Rohit Nagi, Global Studies, University of Illinois

- Lisa Dilling, University of Colorado: “‘Lessons Learned but not Applied’: Adaptation Knowledge and Policy Uptake”
- Shannon McNeeley, UCAR: “Vulnerability to Changing Seasonality: The Importance of Sensitivity and Social Significance in Climate Change Vulnerability Analysis”
- Barbara Deutsch Lynch, Georgia Institute of Technology: “The Dublin Principles, Watershed Governance and Vulnerability to Climate Change in Highland Peru
- Ian MacAuslan, Oxford Policy Management: “Addressing Vulnerability with Cash Transfers in Drought-prone Areas: How Should Such Programmes be Designed?”
- Derek Kauneckis, University of Nevada, Reno: “A Local Government Perspective on Climate Change Adaptability”
- Mette Olwig, University of Copenhagen: “From Concepts to Practice: ‘Vulnerability’ and ‘Adaptation’ in Northern Ghana”

***Methods Panel II: Social Ecological Systems and Resilience* – Room 1237**

Chair: Jeremy Brooks, Beckman Institute Post-Doctoral Fellow, University of Illinois

- Maria DiGiano, University of Florida: “Predicting the Fate of Community Forestry in the Face of Disaster: Reorganization and Resilience within Forest Communities in Southeastern Mexico”
- Qing Tian, University of Michigan: “A Conceptual and Methodological Framework for Understanding and Studying Sustainability of Coupled Human-Environment Systems in the Context of Climate Change/Variability”
- Amanda Fencl, Stockholm Environment Institute – US Center: “Adaptation of complex systems: resilience of social-ecological systems in the Andes region”

- Conrad Murendo, ICRISAT: “Drought Risk Impacts and Management in Developing Countries: Smallholder Farmers are not ‘Dump economic agents’”
- Jennifer Howk, Harvard University: “States of Nature: Climate Change and the Politics of Permanent Crisis in Four Alaskan Communities”
- Joseph Foti, World Resources Institute, Washington, DC: “Rapid Institutional Analysis for Adaptation”

12:30-1:30 **Lunch** – Room 5269

1:30-2:30 **Plenary Discussion of Third Session of Parallel Panels.** Organize breakout groups and choose evening synthesis tasks for Saturday morning synthesis (breakout groups can choose to go to dinner together).
Room 5602

2:30-4:00 **Working Groups**

4:00-4:30 **Coffee Break – 5th Floor Vestibule**

4:30-6:00 **ICARUS Keynote Address and SDEP Climate and Society Lecture**

Speaker: **Maria Carmen Lemos**, *Natural Resources and Environment, University of Michigan*

Room 5602

Title: "Can Science Save North East Brazil? Building Adaptive Capacity to Climatic Change in Ceara"

Discussants:

Arun Agrawal — *Society, Natural Resources and Environment, University of Michigan*

Ben Orlove — *Anthropology, University of California at Davis*

6:00-7:00 **Reception** for Maria Carmen Lemos immediately following talk in 5th floor Tower Room

Evening **NO PLANNED DINNER**—Check conference packet for restaurant suggestions.

Saturday, February 13

- 8:30-9:00** **Opening – Review of goals**
Chair: Maria Carmen Lemos
Room 5602
- 9:00-10:30** **Plenary: Statements from Working Groups**
Chair: Tom Bassett, Department of Geography, University of Illinois.
Each working group will have ten minutes to present and five minutes of discussion. This will be followed by an open discussion of 1) interesting insights, 2) significant gaps, and 3) future directions.
- 10:30-11:00** **Coffee Break 5th Floor Vestibule**
- 11:00-12:30** **Working Groups reunite to develop synthesis statements**
- 12:30-12:45** **Box lunch distributed – take to final plenary**
- 12:45-2:00** **Final Plenary**
Chairs: Agrawal, Lemos, Orlove, Ribot
Working Group final statements
Synthesis discussion
Follow up
- Workshop outcomes
 - Next workshop
 - Future of ICARUS