

Christine J. Kirchhoff

Assistant Professor
Department of Civil & Environmental Engineering
University of Connecticut
261 Glenbrook Road, Unit 3037
Storrs, CT 06269-3037

EDUCATION

Ph.D. Natural Resources and Environment, University of Michigan - Ann Arbor, 2010
Dissertation: *Integrating science and policy: Climate change assessments and water resources management*, Co-Chairs: Dr. Maria Carmen Lemos and Dr. Jonathan Bulkley

Certificate in Science, Technology & Public Policy, University of Michigan - Ann Arbor, 2010
Graduate Teacher Certificate, University of Michigan - Ann Arbor, 2010

M.S., Environmental and Water Resources Engineering, The University of Texas at Austin, 2002
Thesis: *Composted Animal Manures and Biosolids: A Study to Assess the Chemical and Physical Properties of Compost and Compost Amended Soils for Use along Highway Rights-of-Way*

B.S., Civil Engineering, The University of Texas at Austin, 1998

ACADEMIC PROFESSIONAL EXPERIENCE

Assistant Professor, School of Engineering, Department of Civil and Environmental Engineering, 2013-present

Research Fellow, School of Natural Resources and Environment, University of Michigan - Ann Arbor, 2011 – 2013.

Consulting Research, The National Academies, Board on Atmospheric Sciences & Climate, Committee on a National Strategy for Advancing Climate Modeling, 2011.

Research Scientist, Center for Science and Technology Policy Research, Cooperative Institute for Research in Environmental Sciences, University of Colorado at Boulder, 2010 – 2011.

Graduate Research Assistant, Center for Sustainable Systems, University of Michigan - Ann Arbor, 2005 – 2009.

Graduate Research Assistant, Center for Research in Water Resources, University of Texas at Austin, 2000 – 2002.

RELEVANT PROFESSIONAL EXPERIENCE

Project Manager / Engineer. Turner Collie and Braden, Inc. (now AECOM), Austin, Texas, 1998-2004

PROFESSIONAL REGISTRATION

Registered Professional Engineer, Texas. No. 91864

TEACHING

Guest Lectures

- University of Michigan – Ann Arbor, Climate change and Adaptation: Adaptive development in a changing world (ENVIRON 326), Winter 2012.
- University of Colorado at Boulder, Seminar in Teaching Pedagogy, Fall 2010

Courses Taught

- Water Resource Policy (NRE 558/CEE 587), University of Michigan - Ann Arbor, Winter 2009 & Winter 2010. Responsible for complete course design and lectures.

Courses Assisted

- University of Michigan - Ann Arbor, Seminar in Science, Technology and Public Policy (PP754), Winter 2007 & Winter 2008 & Winter 2009.
- University of Michigan - Ann Arbor, Water Resource Policy (NRE 558/CEE 587), Fall 2005 / 2006.
- University of Texas at Austin, Introduction to Civil Engineering (CE 301), Winter 2000.

THESES / RESEARCH SUPERVISED

Nicholas Jansen, Supervised Undergraduate Research Opportunity Program (UROP), 2012-2013
Deborah Pierce, B.S. University of Michigan, Program in the Environment, Thesis supervised, 2011

AWARDS / FELLOWSHIPS

1. UCOWR Best Dissertation: Water Policy and Socioeconomics, 2011
2. Network of Conservation Educators & Practitioners, Co-professor of the Month for February 2011
3. NCAR Early Career Scientists Assembly, Junior Faculty Forum, July 13-15, 20120
4. Dan David Prize, Present Time Dimension, Social Responsibility with Particular Emphasis on the Environment, \$15,000, 2008
5. The Ayers-Brinser Award, School of Natural Resources and Environment, 2008
6. Preparing Future Faculty Teaching Fellow, University of Michigan, 2008
7. Recruitment Scholarship, School of Natural Resources and Environment, University of Michigan, \$28,000, 2007-2009
8. Horace H. Rackham Regents Fellowship, University of Michigan, \$30,000 stipend + tuition, 2004-2007
9. Samuel T. Dana Award, University of Michigan, School of Natural Resources and Environment, \$1,000, 2006

JOURNAL PUBLICATIONS

1. Kirchhoff, C.J. and L. Dilling (*in preparation*). U.S. states' water governance for adaptation to climate variability and change.
2. Lemos MC, Kirchhoff CJ, Kalafatis SE, Scavia D, Rood RB (submitted). Moving climate information off the shelf: Boundary Chains and the role of RISAs as adaptive organizations. *Weather Climate and Society*.
3. Kirchhoff, C.J., M.C. Lemos, and S. Dessai. 2013. Actionable knowledge for environmental decision making: Broadening the usability of climate science. *Annual Review of Environment and Natural Resources* 38, 3.1-3.22. DOI: 10.1146/annurev-environ-022112-112828.
4. Kirchhoff, C.J. 2013. Understanding and enhancing climate information use in water management. *Climatic Change*, 119(2): 495-509.

5. Kirchhoff, C.J., M.C. Lemos, and N. Engle. 2012. What influences climate information use in water management? The role of boundary organizations and governance regimes in Brazil and the U.S., *Environmental Science and Policy* 26:6-18.
6. Lemos, M.C., C.J. Kirchhoff, and V. Ramprasad. 2012. Narrowing the usability gap. *Nature Climate Change*, 2: 789-794.
7. McNeeley, S.M., S.A. Tessendorf, H. Lazurus, T. Heikkila, I.M. Ferguson, J.S. Arrigo, S.Z. Attari, C. M. Cianfrani, L. Dilling, J.J. Gurdak, S.K. Kampf, D. Kauneckis, C.J. Kirchhoff, J. Lee, B.R. Lintner, K.M. Mahoney, S. Opitz-Stapleton, P. Ray, A.B. South, A.P. Stubblefield, and J. Brugger. 2012. Catalyzing Frontiers in Water-Climate-Society Research: A View from Early Career Scientists and Junior Faculty. *Bulletin of the American Meteorological Society*, April. <http://journals.ametsoc.org/doi/abs/10.1175/BAMS-D-11-00221.1>
8. Kirchhoff, C.J. and J.W. Bulkley. 2008. Zambezi River Basin: Challenges and Opportunities, *Journal of the International Institute*, 15(2). <http://hdl.handle.net/2027/spo.4750978.0015.208>

OTHER PUBLICATIONS

1. Kirchhoff, C.J. 2013. Review of Co-Engineering and Participatory Water Management by Daniell. *Journal of the American Water Resources Association*, 49(3): 735-736.
2. Kirchhoff, C.J. and J.W. Bulkley. 2011. *Transboundary Water Resources Management and the Potential for Integrated Water Resources Management*, American Museum of Natural History, NY. http://ncep.amnh.org/index.php?globalnav=resources§ionnav=modules§ionsidenav=module_files&module_id=555
3. Kirchhoff, C.J. 2010. Adaptation. In: *Volume IV: Green Cities*, Robbins, P., Schiffman, H., and Golson, G.J. (Eds.). Sage Publications.
4. Kirchhoff, C.J. 2009. Review of Perspectives on Sustainable Resources in America by R.A. Sedjo (Ed.). *Journal of the American Water Resources Association*, 46 (6): 1543-1544.
5. Bulkley, J.W. and C.J. Kirchhoff. 2008. Keep drugs out of water with research, monitoring, treatment, *Detroit Free Press*, March 21, Editorial Section, Final Edition.

GRANTS AWARDED

NOAA/Climate and Societal Interactions (CSI) Program, Coastal and Ocean Climate Applications (COCA), *Enhancing manager and stakeholder awareness of and responses to extreme precipitation effects on Lake Erie* with Co-PIs D. Scavia (UM), A. Steiner (UM), Nathan Bosch (Grace College), M. Koslow/M. Murray (National Wildlife Federation), and H. Elmer (Ohio Department of Natural Resources, Division of Wildlife), \$275,617, 2013-15.

School of Natural Resources & Environment, Travel Grants, \$400, 2009 - 2010

School of Natural Resources & Environment, Dissertation Research Grant, \$4,000, 2009

Horace H. Rackham School of Graduate Studies, Graduate Student Research Grant, \$3,000, 2008

Horace H. Rackham School of Graduate Studies, Conference Travel Grants, \$3,500, 2005-2010

Horace H. Rackham School of Graduate Studies, Rackham Interdisciplinary Workshop Seminar Grant, \$6,000, 2006 –2007

INVITED PRESENTATIONS AND WORKSHOPS

Plenary speaker for panel on Bridging Science and Application. 2012 UCOWR/NIWR Annual Conference: Managing water, energy, and food in an uncertain world, Santa Fe, NM, July 17-19.

Coupled observation of the water environment: A national survey program. The Johnson Foundation at Wingspread, the National Science Foundation, the University of Illinois, and the University of Michigan. Racine WI, October 6-8, 2011.

What's the difference? Water managers' use of climate information across regions and scales of decision making. Presented at the National Center for Atmospheric Research's Joint Seminar MMM/RAL, Boulder, CO, January 6, 2011.

Integrating science and policy: Climate change assessments and water resources management. Presented at the University of Colorado, Center for Science and Technology Policy's Seminar Series: Decision-Making Under Uncertainty, Boulder, CO, September 23, 2010.

A view of the Future for Research on Climate Change Impacts on Water: Workshop focusing on adaptation strategies and information needs. Denver, CO. August 31-September 1, 2010.

Collaborative science for water quality management. Presentation at the Stakeholder Dialogue, Participation & Networking Initiative for the Development of an IWRM Strategy for the Zambezi River Basin, Southern African Development Community and the Zambezi River Authority, Victoria Falls, Zimbabwe, November 27-29, 2007.

SELECTED CONFERENCE PRESENTATIONS

Climate information and water resources management: Integrating science and policy to build adaptive capacity. 2011 Colorado Conference on Earth System Governance, Colorado State University, Fort Collins, CO, May 17-20, 2011.

Managing U.S. water resources in a changing climate: Is effective, science-based planning the answer? Annual Meeting of the Association of American Geographers, Special Session: New Explorations of Science, Policy and Climate Change, Seattle, WA, April 12-16, 2011.

Potential dimensions of Integrated Water Resources Management: Policy and institutional issues. 33rd IAHR Congress, Water Engineering for a Sustainable Environment, Vancouver, British Columbia, August 9-14, 2009.

Linking scientists and water managers for innovative water resources management. Presentation at Water Policy 2009, Prague, Czech Republic, June 22-26, 2009.

Collaborative research potential in the Zambezi River Basin. Presentation at the 2008 UCOWR/NIWR Conference on International Water Resources, Durham, NC, July 22-24, 2008.

ACADEMIC AND COMMUNITY SERVICE

- Reviewer, Bulletin of the American Meteorological Society, 2013-present
- Environment, Systems and Decisions, 2013-present
- Reviewer, Environmental Studies and Sciences, 2013-present
- Reviewer, Weather, Climate and Society, 2012-present
- Reviewer, Ecology and Society, 2012-present
- Reviewer, Society & Natural Resources, 2012-present
- Reviewer, National Science Foundation, PIRE Grants, 2012-present

- Reviewer, Journal of the American Water Resources Association, 2009-present
- Moderator, Bulkley: An academic retrospective, September 9, 2011
- Volunteer Judge, NOAA Great Lakes Science Bowl, Ann Arbor, 2010
- Appointed Member, Human Rights Commission, City of Ann Arbor, MI, 2008-2010
- Volunteer Judge, Forsythe Science Fair, Forsythe Middle School, Ann Arbor, MI, 2008
- Coordinator, Rackham Interdisciplinary Workshop Seminar Series, Integrating Science and Ethics to Promote Sustainable Water Policy, University of Michigan, Ann Arbor, MI, 2006-2007
- Co-Coordinator, Ph.D./Faculty Seminar, School of Natural Resources and Environment, 2004-2007
- Water Quality Monitor, Huron River Watershed Council, Water Quality Monitoring Program, Ann Arbor, MI, 2005-2006

PROFESSIONAL MEMBERSHIPS

Environmental and Water Resources Institute (EWRI)

American Association of Geographers (AAG)

American Water Resources Association (AWRA)

Society for Social Studies of Science (4S)

American Geophysical Union (AGU)

American Meteorological Society (AMS)