

LYNNE Y. LEWIS

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EDUCATION

Ph.D in Economics. University of Colorado at Boulder, 1994

B.A. in International Affairs, University of Colorado at Boulder, 1985

ACADEMIC POSITIONS

Current:

Professor of Economics and Chair
Department of Economics, Bates College

Previous:

Associate Professor of Economics and Chair
Department of Economics, Bates College

Assistant Professor of Natural Resource Economics
Yale University School of Forestry and Environmental Studies, 1994-2000

OTHER POSITIONS

Board of Directors, Maine Audubon, 2010-

Board of Directors, Natural Resources Council of Maine (NRCM), Sept. 2003–present

Research Advisory Board, Senator George Mitchell Center for the Environment and Watershed
Research, University of Maine, 2005-present

Penobscot Science Steering Committee, 2006-present

Invited Visiting Scholar, Water Resources Research Center, University of Hawaii, March 2007

Board of Directors, Universities Council on Water Resources, 1999 - 2005

Steering Committee, Androscoggin Valley Watershed Council, May 2003-2006

AWARDS & ACADEMIC HONORS

Friend of UCOWR Award, July 2005

Appointed to the Board of Directors of the Natural Resources Council of Maine, July 2003

Appointed to the Steering Committee of the Androscoggin Valley Watershed Council, May 2003

Board of Directors of Universities Council on Water Resources, 1999-2005

NSF/Lucent Technologies Research Fellowship Award, 1997-1999

Association of Environmental and Resource Economists Travel Fellowship Award, 1998

Universities Council on Water Resources Outstanding Dissertation Award, 1995

National Center for Atmospheric Research Dissertation Fellowship, 1992-1994

Morris E. Garnsey Fellowship, 1992

FUNDED PI RESEARCH AND TEACHING DEVELOPMENT SUPPORT

EPSCoR/NSF Award #EPS-0904155, \$63,400. Maine's Sustainability Science Initiative. September 2009-August 2011 – with Bev Johnson.

National Science Foundation, Participating as Senior Personnel on Collaborative Research Award to Philip Brown, Colby College (\$162,641), Darin Magee, Hobart and William Smith Colleges (\$90,470), and Desiree Tullos, Oregon State University (\$494,967), *Interdisciplinary Research and Methods for Assessing Dams as Agents of Change in China*. 2008-2011.

Incorporating Stakeholder Values into River Restoration Decisions, PI, Co-PI: Kathleen Bell. Water Resources Research Institute, USGS, \$26,000. March 2008 – July 2010.

Bates Faculty Development Award, January 2010, \$2,350.

Harvard Center Publically Engaged Academic Projects, PI, \$6,000. 2009.

“The Androscoggin River: A Living Laboratory. Renewal,” with Faculty at Colby, Bates and Bowdoin, August 2008-August 2009, \$7,200.

Faculty Development Grant, Bates, College, \$2,150. 2008.

Capacity Building for Sustainable Governance in the GEF International Waters Portfolio PIMS no.3799.

The Androscoggin River: A Socio-Economic Inventory, PI, Harvard Center for Community Partnerships Grant, 2006-2007, \$7000.

Faculty Development Grants, Bates College, 2006-2007.

Valuing Environmental Changes for Decision Making: Dam Removal and Restoration on the Penobscot and Kennebec Rivers, PI, Water Resources Research Institute, Mitchell Center for Environmental and Watershed Research, Funded for 2005-2006, \$23,452.

Pearson Education, Inc. Authored Instructor's Manuals for Tom Tietenberg's *Environmental and Natural Resource Economics* and *Environmental Economics and Policy*. Also assisted with revisions for new textbook edition. Have signed contract to phase-in as co-author of upcoming editions.

Karl Mills Grant for participating in the Seminar on Reflections in the Liberal Arts, 2003-2004, \$1,000.

Karl Mills Grant to design new interdisciplinary course on Environmental Valuation. \$10,000. With Frank Chessa.

“Management of River Basins Through Decentralization,” Consultancy with the World Bank, 2001.

LADD Grant, Bates College, with Maggie Maurer-Fazio and Francesco Duina, \$5,000, 2001.

“Connecting Ecological and Social Systems: Watershed Research Relating Ecosystem Structure and Function to Human Values and Socioeconomic Behaviors,” Co-PI with Stephen Kellert, Gaboury Benoit, Mark Ashton, David Skelly and Paul Barten (NSF/EPA: \$795,000), 1997-1999.

“Connecting Ecological and Social Systems: Watershed Research Relating Ecosystem Structure and Function to Human Values and Socioeconomic Behaviors,” Co-PI with Stephen Kellert (CT Sea Grant: \$97,439), 1997-1999.

“Modeling the Industrial Ecosystem,” Co-PI with Thomas Graedel and Oswald Schmitz, (NSF and Lucent Technologies: \$100,000), 1997-1999.

“Effects of the Clean Air Act Amendments on Water Quality—812 Project,” consultancy with Industrial Economics, Inc, 1998.

“Effluent Trading in the Quinnipiac River Watershed: An Experimental Market,” Principal Investigator (The Geoffrey C. Hughes Foundation: \$19,550), 1997.

“Estimating the Effects of Water Rate Increases on Residential Customers,” Principal Investigator (S. Connecticut Regional Water Authority (\$10,000), 1995-1996.

“Urban Water Supply Reliability: Planning Procedures and Survey Techniques. Charles W. Howe, Principal Investigator, Environment and Behavior Program and Department of Economics, University of Colorado, 1989-1991.

RESEARCH & PUBLICATIONS

Books and Edited Volumes

Tietenberg, Tom and Lynne Lewis. *Environmental and Natural Resource Economics*, 8th Edition, Addison-Wesley Publishers, 2009
9th Edition, Addison-Wesley, copyright 2012.

Tietenberg, Tom and Lynne Lewis. *Environmental Economics and Policy*, 6th Edition. Addison-Wesley Publishers, 2010.

“River and Lake Restoration: Changing Landscapes,” *Journal of Contemporary Water Research and Education*, Issue 134, July 2006. Issue Editor.

Refereed Articles, Book Chapters and Papers Under Review

“Environmental and Natural Resource Economics: Teaching the Major and Non-Majors Simultaneously” *Forthcoming in International Handbook on Teaching and Learning Economics* (Hoyt and McGoldrick, Editors), Elgar Press.

“A “Virtual” Field Trip to the Real World of Cap and Trade: Environmental Economics and the EPA SO₂ Allowance Auction” forthcoming in *Journal of Economic Education*, 42:4, Fall 2011.

“Examining the Economic Impacts of Hydropower Dams on Property Values Using GIS,” (with Curtis Bohlen) *Journal of Environmental Management*. December 2008.

“Demolish it and They will Come: Dam Removal and the *Ex-post* measurement of Fisheries Benefits,” (with Jesse Robbins (Bates '06. *Journal of the American Water Resources Association* 44(6) December 2008.

“Dams, Dam Removal and River Restoration: A Hedonic Property Value Analysis,” (with Curtis Bohlen and Sarah Wilson (Bates '06)). *Contemporary Economic Policy*. April 2008.

“Environmental Quality and Housing Market: Does Lot Size Matter?” (with G. Acharya), *Marine Resource Economics*, 21, 317-330. 2006.

“River and Lake Restoration: Changing Landscapes – An Introduction,” *Journal of Contemporary Water Research and Education*, Issue 134, July 2006.

“Interstate River Compacts of the West?” *Water Allocation in the Southeast: New Issues, New Methods, New Models*, (Jordan and Wolf, Eds.) University Press of Florida, 2006.

“The Value of Water Supply Reliability in Urban Water Systems,” (with Charles W. Howe, Mark G. Smith, et al.) *Economics of Water Resources: Institutions, Instruments and Policies for Managing Scarcity*, (K. William Easter and Mary Renwick, Editors), Ashgate, February 2004.

reprinted from *Journal of Environmental Economics and Management*, 26, 19-30, 1994.

“Valuing Open Space and Land Use Chaos in Urban Watersheds: An Hedonic Property Value Analysis,” (with G. Acharya) *Journal of Real Estate Economics and Finance*. 22:2/3, 221-237. 2001.

“Interstate River Compacts: Incentives for Noncompliance,” (with C.W. Howe) *Conflict Prevention and Resolution in Water Systems* (Aaron Wolf, Ed), Edward Elgar, November 2001, reprinted from *Water Resources Research*, 34(3), 485-495, March 1998.

- “Complexities with Transboundary Water Resource Management: Progress and Stumbling Blocks,” (Editor) *Water Resources Update*, 2001.
- “The Integration of Water Quality into Transboundary Allocation Agreements: Lessons from the Southwestern United States,” *Agricultural Economics* 24, 113-125, 2000.
- “Cost-Effective Control of Nitrogen Loadings in Long Island Sound,” (with S. Thorpe and A.J. Guse) *Water Resources Research* 36(12), 3711-3720, December 2000.
- “The Interstate River Compact as a Water Allocation Mechanism: Efficiency Aspects,” (with C.W. Howe and J.S. Shope) *American Journal of Agricultural Economics*, November 2000.
- “The Cost of Noncompliance: The Economic Value of Water in the Middle Arkansas Valley,” (with R. Naeser) *Natural Resources Journal*, 38(3), 445-463, Summer 1998.
- “Interstate River Compacts: Incentives for Noncompliance,” (with C.W. Howe) *Water Resources Research*, 34(3), 485-495, March 1998.
- “The Impact of Global Warming on Water Systems: Theoretical Issues,” (with R. Mendelsohn) *Climatic Change* 37, 271-290, 1997.
- Also reprinted in “Climate Change and Water Resources Planning Criteria” (Frederick, Major, and Stakhiv, Eds.), Kluwer, 1997.
- “Facilitating International Agreements Through an Interconnected Game Approach: The Case of River Basins,” (with S. Ragland and P. Yolles) *Conflict and Cooperation on Trans-Boundary Water Resources* (Just and Netanyahu, Eds.), Kluwer, 61-85, 1997.
- “The Arkansas River Compact: Integrated Watershed Management as a Means of Conflict Prevention,” (with R. Naeser) in *Water Resources Education, Training and Practice: Opportunities for the Next Century* (Warwick, Ed.), Symposium Proc. AWRA/UCOWR, 723-732, 1997.
- “Design and Analysis of Contingent Valuation Surveys Using the Nested Tobit Model,” (with C.W. Howe and B.J. Lee) *Review of Economics and Statistics*, 385-389, 1994.
- “The Value of Water Supply Reliability in Urban Water Systems,” (with Charles W. Howe, Mark G. Smith, et al.) *Journal of Environmental Economics and Management*, 26, 19-30, 1994.

Working Papers in Preparation for Submission

- Including the Public in Dam Removal Debates: Using Stated Preference Surveys,” with Carol Mansfield. Presentation at the International Water Resource Economics Consortium, Banff, Canada, June 2011.
- “Who Gives a Dam?: Taking stock of public support for river restoration: with Kathleen Bell and Zach Ross, *in prep.*”
- “Response Bias in Homeowner Surveys: A caution for policy,” with Zach Ross and Kathleen Bell, *in prep.*”
- “Do Benefits Really Transfer? A Fish Tale Across 3 Rivers,” *in prep.*”
- “Climate Variability and the Interstate River Compact: When Will the Compact Fail?” (with Charles W. Howe)
- “Fisheries Law Enforcement in the Presence of Tradable Quotas: An Extension” (with Peter Lyneis).
- “Demand-side Management: A Lifeline for Longlining” (with Mark Pojednic and Guillermo Herrera).

Other Publications

- “Environmental Economics: It's not an oxymoron anymore?” Newsletter of the Committee on the Status of Women in the Economics Profession, Spring/Summer 2010, p. 4-5.
- Instructor's Manual to Accompany Environmental Economics and Policy, 5th Edition (T. Tietenberg 2006) <http://www.aw-bc.com/catalog/academic/product/0,1144,0321348907-IS,00.html> June 2006.

Instructor's Manual to Accompany Environmental and Natural Resource Economics, 7th Edition. (T. Tietenberg 2005), June 2005.

Instructor's Manual to Accompany Environmental Economics and Policy, 4th Edition (T. Tietenberg 2004), Instructor's Manual to Accompany Environmental and Natural Resource Economics (T. Tietenberg 2002), January 2003.

Instructor's Manual to Accompany Environmental Economics and Policy (T. Tietenberg 2000), January 2001. http://occ.awlonline.com/bookbind/pubbooks/tietenberg_eep3_awl/chapter98/deluxe.html.

"Land Use Diversity and Urban Watersheds: The Case of New Haven County," (with G. Acharya) Proceedings of the 1999 W-133 resource economics meetings.

"Economic Considerations of the Restoration of a Tidal Salt Marsh: The Case of the West River," (with M. Udziela) in *Restoration of an Urban Salt Marsh: An Interdisciplinary Approach* (David Casagrande, Ed.), Yale University School of Forestry and Environmental Studies Bulletin Series, No. 100, 1997.

"Unidirectional Problems with International River Basins: A Game Theoretic Approach," (with S. Ragland and P. Yolles) in Proceedings of *Water: A Trigger for Conflict/Reason for Cooperation*, 1996.

"The Economics of Interstate River Compacts: Efficiency, Compliance and Climate Change," National Center for Atmospheric Research, NCAR/CT-151, 1994.

"Mocan Foreign Threats and Domestic Actions: The Case of Sanctions against South Africa," (with W. H. Kaempfer, A. D. Lowenberg and H. Naci) in *Justice Without Violence*, (Wehr, Burgess, and Burgess, Eds.), Lynne Rienner Publishers, 1993.

Completion Reports

"Valuing Environmental Changes for Decision Making: Dam Removal and Restoration on the Penobscot and Kennebec Rivers," Report Submitted to the George J. Mitchell Center for Environmental and Watershed Research, June 2006.

"Effluent Trading for Quinnipiac River Nitrogen Control: Simulation Analysis," completion report for the Geoffrey C. Hughes Foundation, Inc. 1999.

"Estimating the Benefits of Decreased Nitrogen Deposition into Estuaries in the United States Due to Air Quality Improvements Attributable to the CAAA: A Marginal Cost and Avoided Cost Analysis," completion report submitted to Industrial Economics, Inc., July 1998.

"Estimated Impacts of Proposed Rate Increases on Residential Water Demand for Customers Served by the South Central Connecticut Regional Water Authority," completion report for the South Central Regional Water Authority, June 1996.

"Incorporating Public Preferences in the Optimization of Urban Water Supply Reliability: Planning Procedures and Survey Techniques," (with Charles W. Howe, et al.), completion report for the U.S. Geological Survey, December 1991.

"Urban Water Supply Reliability: Preferences of Managers, Elected Officials, and Water Users in Boulder, Colorado," (with Charles W. Howe, et al.), Colorado Water Resources Research Institute Report No. 158, December 1990.

Book Review

Review of *Classic Papers In Natural Resource Economics* (Gopalakrishnan, Ed.), MacMillan Press.

Review of "Water Quantity/Quality Management and Conflict Resolution" (Dinar and Loehman, Eds.). In *The Forum*.

SELECTED CONFERENCE/SEMINAR PRESENTATIONS

“Including the Public in Dam Removal Debates: Using Stated Preference Surveys,” Presentation at the International Water Resource Economics Consortium, Banff, Canada, June 2011.

“Dam Removal and Benefits Transfer: If you’ve seen one, have you seen them all?” Presentation and Session Organizer at the World Congress of Environmental and Resource Economists, Montreal, June 27-July 2 2010.

Invited Speaker for “The Economics for Evaluating Water/Energy Interactions for Policy,” Decision Center for a Desert City and Center for Environmental Economics and Sustainability, Arizona State University, April 2010.

Program Committee and Moderator, Northeast Association of Agricultural and Resource Economists, June 2010.

NAAFE Forum, Newport, RI, May 2009.

Invited Plenary Speaker for Goodwin-Niering Center on Conservation Biology and Environmental Studies Annual Environmental Symposium, “Water Scarcity and Conflict,” April 2009. Connecticut College.

“A Field Trip to the Real World: Environmental Economics and the EPA SO₂ Auction” Presented at the Southern Economics Association Meetings, November 2008.

“Do Benefits Really Transfer? A Fish Tale Across 3 Rivers,” presented at the CU Environmental Economics Workshop, September 2008, and the Southern Economics Association Meetings, November 2008.

“Environmental Economics: Oxymoron or the New Reality?” Faculty Symposium, Parents Weekend, Bates College, October 2008.

“Hedonic Property Value Models and River Restoration, CSWEP session at the Southern Economics Association Annual Meetings, November 2007.

Keynote Speaker for the Global Water Project’s Annual Workshop, University of New Hampshire, May 2007.

“Dams, Dam Removal and River Restoration: A Socio-economic Analysis,” Presentation at Dam Modeling Symposium, Washington, April 2007.

Invited Seminar Speaker. Water Resources Research Center Seminar Series, University of Hawaii. Presentation scheduled for March 15, 2007.

Harvard Center for Community Partnerships’ Public Works In Progress Seminar Series. Presentation Scheduled for February 13, 2007.

Invited Speaker at Women in Economics Forum, University of Colorado, October 2006.

Invited Participant for International Water Expert Consultation Workshop Vancouver, British Columbia, July 2006.

Invited Participant for Panel on Building Collaboratories, Campus Compact Conference, April 2006.

“Experimental Education for Undergraduates: Getting Non-science Students into the Field,” Panel Discussion at the UCOWR Annual Conference, Portland, ME 2005.

Committee on the Status of Women in the Economics Profession, Invited Mentor for Workshop, Southern Economics Association, November, 2005.

Allocating Water: Economics and the Environment. Panel presentation on the Columbia River Treaty, July 2004.

Water Security in the 21st Century, UCOWR Annual Conference, Moderator for Plenary session, a breakout session and presented Warren Hall Medal award, July 2003.

- University of Maine at Orono, Department of Resource Economics and Policy Seminar Series, Presented, "Spatial Components of Environmental Quality: Watersheds and Housing Markets, April 2003.
- Maine Rivers Conference: Invited Presentation, "The Value of Water," Bethel, Maine, May 2002.
- September 2002. Planning Committee for Integrated Transboundary Water Management, UCOWR sponsored, 2002.
- Symposium on Climate, Water and Transboundary Challenges in the Americas, UCSB, Presented "Climate Variability and the Interstate River Compact: When will the Compact Fail?," July 2000.
- University of Rhode Island, Department of Agricultural and Resource Economics Seminar Series. Presented "Understanding Environmental Preferences in the New Haven Watershed," September 1999.
- Universities Council on Water Resources and International Water Economics Consortium annual meeting. Presented two papers and chaired two sessions, June 1999.
- University of New Hampshire, Department of Economics Seminar Series. Presented "Valuing Open Space and Land Use Chaos in Urban Watersheds: An Hedonic Property Value Analysis," April 1999.
- Committee on the Status of Women in the Economics Profession, CCOFFE workshop, Eastern Economics Association annual meeting, March 1999.
- W-133 annual meeting. Presented "Land Use Diversity and Urban Watersheds: The Case of New Haven County," February 1999.
- Connecticut State Legislature Opening Session. Moderated a panel on nitrogen trading programs for Long Island Sound. 1998.
- Southern Economics Association annual meeting. Chaired a SAPPCCREE session on water quality and presented "Cross-Media Trading Possibilities for Water Quality," November 1998.
- Organized, hosted, and conducted workshop on Permit Trading Possibilities for Long Island Sound. Presented computer simulation of permit market. Yale University School of Forestry and Environmental Studies, October 1998.
- Universities Council on Water Resources annual meeting. Presented "The Design of Water Allocation Mechanisms: The Case of the Interstate River Compact," August, 1998.
- World Congress of Environmental and Resource Economists. Joint meeting of European Association of Environmental and Resource Economists and Association of Environmental and Resource Economists. Presented, June 1998.
- Southern Economics Association annual meeting. Invited panelist for SAPPCCREE session on "Teaching Environmental and Natural Resource Economics," Atlanta, November, 1997.
- AWRA/UCOWR annual meeting. Presented, June 1997.
- University of Hawaii, Department of Economics Seminar Series. Presented, April 1997.
- Fifth Annual International Water and Resource Economics Consortium, Annapolis. Presented, April 1997.
- Twenty-eighth Annual Symposium on International Relations, *Troubled Water: An Impending Global Crisis*, Invited Panelist, League of Women Voters of Connecticut Education Fund and Yale University Center for International Area Studies, March 1997.
- European Association of Environmental and Resource Economists annual meeting, Lisbon. Presented and discussed paper, June 1996.
- University of Massachusetts, Department of Agriculture and Natural Resources Seminar Series, May 1996.
- Water: A Trigger for Conflict/Reason for Cooperation, Indiana University. Presented, March 1996. ASSA meetings, AERE session. Presented, January 1993.

TEACHING DEVELOPMENT

Committee on the Status of Women in the Economics Profession (CSWEP) mentor for Junior Faculty in Economics, Nov. 2005.

Seminar on *Reflection in the Liberal Arts* participant, 2003-2004.

Received Karl Mills Grant for interdisciplinary course development. Course entitled, *Valuation: Ethics and Economics in Practice*, with Frank Chessa, Philosophy, Summer 2001.

CCOFFE Participant: NSF funded mentoring workshop for junior faculty. Participated as a mentee, 1999.

Invited panelist. *Teaching Environmental and Natural Resource Economics*. Southern Economics Association annual meeting, Atlanta, 1997.

PROFESSIONAL SERVICE

Bates College

Chair, Department of Economics, 2007-

Sustainable Foods Committee 2008-2009

College Lectures Committee, 2007-2008

Bates Education Committee, 2005-2006.

Elected to Coordinating Committee for General Education Reform, 2004-2005

Educational Policy Committee 2002-2004

Mellon Fellow Faculty Sponsor, Winter 2002

Environmental Studies Committee, 2000-present

Honors Committee, 2001-2004

Presidential Inauguration Committee, May 2002-October 2002.

Presentation to Trustees on new interdisciplinary course and Karl Mills Grant

Outside Bates for Other Colleges

External reviewer for tenure case at Washington and Lee University, January 2007

Universities Council of Water Resources (UCOWR)

Board of Directors, 1999-2005

Guest Editor, *Journal of Contemporary Water Research and Education*, July 2006

2005 Annual Meeting Program Chair

2004 Annual Meeting Program Committee

2002 Annual Meeting Organizing Committee

Guest Editor, *Water Resources Bulletin*, spring 2000-2001

Editorial Board, *Water Resources Bulletin*

Lead delegate, 1996-present

Dissertation Awards Committee, 1999

Maine Audubon

Board of Directors, June 2010-present

Natural Resources Council of Maine (NRCM)

Board of Directors, September 2003-October 2010

Senator George Mitchell Center for the Environment and Watershed Research, University of Maine

Research Advisory Board 2005-present

Penobscot Science Steering Committee

Human Dimensions Representative
2006-present

Androscoggin River Valley Watershed Council

Steering Committee, 2002-2006

Have served as Referee for:

Land Use Policy

Journal of Economic Education

Landscape and Urban Planning

Journal of the American Water Resources Association

Water Resources Research

Journal of Environmental Economics and Management

Journal of Environmental Management

American Journal of Agricultural Economics

Resource and Energy Economics

Environmental Management

South-Western Publishing

Dryden Press

Natural Resources Council

U.S. EPA

New Hampshire Sea Grant

Delaware Sea Grant

Industrial Economics, Inc.

Mountain Institute

NOAA

Professional Affiliations

Association of Environmental and Resource Economists (AERE)

American Water Resources Association

Universities Council on Water Resources (UCOWR)

Committee on the Status of Women in the Economics Profession (CSWEP)

Natural Resources Council of Maine (NRCM)

Community Service

Faculty Liaison to Bates Men's Lacrosse. 2007-present.

Faculty Liaison to Bates Women's Ultimate Frisbee Team 2005-present.

Volunteer for the Animal Refuge League of Greater Portland, September 2000-present.

Volunteer Business Manager for CoolestGame2002, video project fundraising for youth ultimate.