

Curriculum Vitae  
STEPHEN POLASKY

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EDUCATION

Ph.D. Economics, University of Michigan, 1986  
B.A. Williams College, cum laude, 1979  
London School of Economics, 1977 - 1978

EXPERIENCE AND AFFILIATIONS

Fesler-Lampert Professor of Ecological/Environmental Economics, University of Minnesota, 1999 – present  
Research Associate, Environmental & Energy Economics Program, National Bureau of Economic Research, 2008 – present  
Resident Fellow of the Institute on the Environment, University of Minnesota, 2009 – present  
Research Fellow, Beijer Institute of Ecological Economics, 2007- present  
University Fellow, Resources for the Future, 2001 – present  
Visiting Scholar Woods Institute of the Environment, Stanford University, 2008 - present  
Visiting Research Fellow Beijer Institute of Ecological Economics 2008- 2009  
Founding Fellow of the Institute on the Environment, University of Minnesota, 2007-08  
Senior Staff Economist, President's Council of Economic Advisers, 1998 - 1999  
Associate Professor, Agricultural and Resource Economics Department, Oregon State University, 1993 - 1999  
Visiting Senior Research Fellow, Marine Policy Center, Woods Hole Oceanographic Institution, 1997  
Assistant Professor, Economics Department, Boston College, 1986 - 1993  
Visiting Research Fellow, Marine Policy Center, Woods Hole Oceanographic Institute, 1990 - 1993  
Visiting Scholar, Economics Department, M.I.T., 1990  
Research Assistant, Resources for the Future, 1980 -1981  
Research Assistant, National Economic Research Associates, 1979 - 1980

## FELLOWSHIPS AND AWARDS

Member of the National Academy of Sciences, Elected 2010  
Fellow of the Association of Environmental and Resource Economists, Elected 2011  
Fellow of the American Academy of Arts and Sciences, Elected 2009  
Fellow of the American Association for the Advancement of Science, Elected 2007  
Marine Policy Fellowship, Woods Hole Oceanographic Institute, 1990 - 1993, 1997  
Faculty Fellowship, Boston College, 1989 - 1990  
Graves Prize in Political Economy, Williams College, 1979

## BOOKS

Kareiva, P., H. Tallis, T.H. Ricketts, G.C. Daily, and S. Polasky. (eds.) 2011. *Natural Capital: Theory and Practice of Mapping Ecosystem Services*. Oxford University Press.

Polasky, S. (ed.). 2002. *The Economics of Biodiversity Conservation*. International library of environmental economics and policy. Ashgate Publishing Limited.

## REFEREED JOURNAL ARTICLES

Carpenter, S.R., C. Folke, A. Norström, O. Olsson, L Schultz, B. Agarwal, P. Balvanera, B. Campbell, J.C. Castilla, W. Cramer, R. DeFries, P. Eyzaguirre, T.P. Hughes, S. Polasky, Z. Sanusi, R. Scholes and M. Spierenburg. Forthcoming. Program on ecosystem change and society: An international research strategy for integrated social-ecological systems. *Current Opinion on Environmental Sustainability*.

Guerry, A.D., M.H. Ruckelshaus, K.K. Arkema, J.R. Bernhardt, G. Guannel, C.-K. Kim, M. Marsik, M. Papenfus, J.E. Toft, G.M. Verutes, S.A. Wood, M. Beck, F. Chan, K.M.A. Chan, G. Gelfenbaum, B. Gold, B. Halpern, B. Labiosa, S. Lester, P. Levin, M. McField, M. Pinsky, M. Plummer, S. Polasky, P. Ruggiero, D. Sutherland, H. Tallis, Day and Spencer. Forthcoming. Modelling benefits from nature: Using ecosystem services to inform coastal and marine spatial planning *International Journal of Biodiversity Science, Ecosystem Services & Management*.

Reyers, B., S. Polasky, H. Tallis, H. Mooney and A. Larigauderie. Forthcoming. Finding common ground for biodiversity and ecosystem services. *BioScience*.

Radeloff, V.C., E. Nelson, A. J. Plantinga, D. J. Lewis, D. Helmers, J. J. Lawler, J. C. Withey, F. Beaudry, S. Martinuzzi, V. Butsic, E. Lonsdorf, D. White, and S. Polasky. Forthcoming. Economic-based projections of future land use under alternative economic policy scenarios in the conterminous U.S. *Ecological Applications*.

Folke, C., A. Jansson, J. Rockstrom, P. Olsson, S. Carpenter, F.S. Chapin, A.-S. Crepin, G. Daily, K. Danell, J. Ebbesson, T. Elmqvist, V. Galaz, F. Moberg, M. Nilsson, H. Osterblom, E. Ostrom, A. Persson, G. Peterson, S. Polasky, W. Steffen, B. Walker and F. Westley. 2011. Reconnecting to the biosphere. *Ambio* 40(7): 719-738.

Kinzig, A., C. Perrings, F.S. Chapin III, S. Polasky, V. K. Smith, D. Tilman and B. L. Turner II. 2011. Paying for ecosystem services – promise and peril. *Science* 334: 603-604.

Foley, J., N. Ramankutty, C. Balzer, E.M. Bennett, K.A. Brauman, S.R. Carpenter, E. Cassidy, J. Gerber, J. Hill, M. Johnston, C. Monfreda, N.D. Mueller, C. O’Connell, S. Polasky, D.K. Ray, J. Rockström, J. Sheehan, S. Siebert, D. Tilman, P.C. West and D.P.M. Zaks. 2011. Solutions for a cultivated planet. *Nature* 420: 337-342.

Polasky, S., A. de Zeeuw and F. Wagener. 2011. Optimal management with potential regime shifts. *Journal of Environmental Economics and Management* 62: 229-240.

Fargione, J., C. Lehman and S. Polasky. 2011. Entrepreneurs, chance, and the deterministic concentration of wealth. *PLoS One* 6(7): e20728.

Polasky, S., S. Carpenter, C. Folke and B. Keeler. 2011. Decision-making under great uncertainty: environmental management in an era of global change. *Trends in Ecology & Evolution* 26(8): 398-404.

Cragg, M., C. Polek and S. Polasky. 2011. Valuing properties with wetland potential. *The Appraisal Journal* 79(2): 126-142.

Fisher, B., S. Polasky and T. Sterner. 2011. Conservation and human welfare: economic analysis of ecosystem services. *Environmental and Resource Economics* 48(2): 151-159.

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Lewis, D., A. Plantinga, E. Nelson and S. Polasky. 2011. The efficiency of voluntary incentives policies for preventing biodiversity loss. *Resource and Energy Economics* 33(1): 192- 211.

Nelson, E., H. Sander, P. Hawthorne, M. Conte, D. Ennaanay, S. Manson and S. Polasky. 2010. Projecting global land use change and its affect on ecosystem service provision and biodiversity with simple techniques. *PLoS ONE* 5(12): e14327.

Murdoch, W., J. Ranganatham, S. Polasky, J. Regetz. 2010. Using return on investment to maximize conservation effectiveness in Argentine grasslands. *Proceedings of the National Academy of Sciences of the United States of America* 107: 20855–20862.

Haight, R.G. and S. Polasky. 2010. Optimal control of an invasive species with imperfect information about the level of infestation. *Resource and Energy Economics* 32: 519-533.

Jansson, Å. and S. Polasky. 2010. Quantifying biodiversity for building resilience for food security in urban landscapes: getting down to business. *Ecology and Society* 15 (3): 20.

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Costello, C., M. Neubert, S. Polasky and A. Solow. 2010. Bounded uncertainty and climate change economics. *Proceedings of the National Academy of Sciences of the United States of America* 107(18): 8108-8110.

Knapp, E.J., D. Rentsch, J. Schmitt, C. Lewis and S. Polasky. 2010. A tale of three villages: choosing an effective method for assessing poaching levels in Western Serengeti, Tanzania. *Oryx* 44(2): 178-184.

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Walker, B.W., S. Barrett, S. Polasky, V. Galaz, C. Folke, G. Engström, F. Ackerman, K. Arrow, S. Carpenter, K. Chopra, G. Daily, P. Ehrlich, T. Hughes, N. Kautsky, S. Levin, K-G. Mäler, J. Shogren, J. Vincent, T. Xepapadeas and A. de Zeeuw. 2009. Looming global-scale failures and missing institutions. *Science* 325(11): 1345-1346.

Richardson, D.M, J.J. Hellmann, J. McLachlan, D.F. Sax, M.W. Schwartz, J. Brennan, P. Gonzalez, T. Root, O. Sala, S.H. Schneider, Dan Ashe, A. Camacho, J. Rappaport Clark, R. Early, J. Etterson, D. Fielder, J. Gill, B.A. Minter, S. Polasky, H. Safford, A. Thompson and M. Vellend. 2009. Multidimensional evaluation of managed relocation. *Proceedings of the National Academy of Sciences of the United States of America* 106(24): 9721-9724.

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- Hill, J., S. Polasky, E. Nelson, D. Tilman, H. Huo, L. Ludwig, J. Neumann, H. Zheng, D. Bonta. 2009. Climate change and health costs of air emissions from biofuels and gasoline. *Proceedings of the National Academy of Sciences of the United States of America* 106(6): 2077-2082.
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- Daily, G., S. Polasky, J. Goldstein, P.M. Kareiva, H.A. Mooney, L. Pejchar, T.H. Ricketts, J. Salzman and R. Shallenberger. 2009. Ecosystem services in decision-making: time to deliver. *Frontiers in Ecology and the Environment* 7(1): 21-28.
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- Fargione, J., J. Hill, D. Tilman, S. Polasky and P. Hawthorne. 2008. Biofuels: effects on land and fire. Response. *Science* 321: 199-200.
- Nelson, E., S. Polasky, D.J. Lewis, A.J. Plantinga, E. Lonsdorf, D White, D. Bael and J.J. Lawler. 2008. Efficiency of incentives to jointly increase carbon sequestration and species conservation on a landscape. *Proceedings of the National Academy of Sciences of the United States of America* 105(28): 9471-9476.
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Polasky, S., E. Nelson, J. Camm, B. Csuti, P. Fackler, E. Lonsdorf, C. Montgomery, D. White, J. Arthur, B. Garber-Yonts, R. Haight, J. Kagan, A. Starfield, and C. Tobalske. 2008. Where to put things? Spatial land management to sustain biodiversity and economic returns. *Biological Conservation* 141(6): 1505-1524.

Fargione, J., J. Hill, D. Tilman, S. Polasky and P. Hawthorne. 2008. Biofuels: putting current practices in perspective. Response. *Science* 320: 1421-1422.

Tajibaeva, L., R. Haight and S. Polasky. 2008. A discrete space model with environmental amenities. *Resource and Energy Economics* 30(2): 170-196.

Barbier, E.B., E.W. Koch, B.R. Silliman, S. D. Hacker, E. Wolanski, J. Primavera, E. F. Granek, S. Polasky, S. Aswani, L.A. Cramer, D. Stoms, C.J. Kennedy, D.Bael, C.V. Kappel, G.M.E. Perillo and D.J. Reed. 2008. Vegetation's role in coastal protection: response. *Science* 320: 177.

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Dale, V. and S. Polasky. 2007. Measures of the effects of agricultural practices on ecosystem services. *Ecological Economics* 64(2): 286-296.

Murdoch, W., S. Polasky, K. Wilson, H. Possingham, P. Kareiva, and R. Shaw. 2007. Maximizing return on investment in conservation. *Biological Conservation* 139: 375-388.

Naidoo, R., A. Balmford, P.J. Ferraro, S. Polasky, T.H. Ricketts, and M. Rouget. 2007. Response to Hockley: The merit of economic and biological measures in conservation planning. *Trends in Ecology and Evolution* 22(6): 287-288.

Nelson, E., M Uwasu, and S. Polasky. 2007. Voting on open space: an analysis of the decision to hold a referendum and of referendum results. *Ecological Economics* 62: 580-593.

Mehta, S., R.G. Haight, F.R. Homans, S. Polasky, and R.C. Venette. 2007. Optimal detection and control strategies for invasive species management. *Ecological Economics* 61: 237-245.

Naidoo, R., A. Balmford, P.J. Ferraro, S. Polasky, T.H. Ricketts, and M. Rouget. 2006. Integrating economic cost into conservation planning. *Trends in Ecology and Evolution* 21(12): 681-687.

Carpenter, S., R. Defries, T. Dietz, H.A. Mooney, S. Polasky, W.V. Reid and R.J. Scholes. 2006. Research needs revealed by the Millennium Ecosystem Assessment. *Science* 314: 257-258.

Kramer, D.B., S. Polasky, A. Starfield, B. Palik, L. Westphal, S. Snyder, E. Gustafson, P. Jakes, and R. Hudson. 2006. A comparison of alternative strategies for cost effective water quality management in lakes. *Environmental Management* 38(3): 411-425.

Polasky, S., N. Tarui, G. Ellis and C. Mason. 2006. Cooperation in the commons. *Economic Theory* 29: 71-89.

Hill, J., E. Nelson, D. Tilman, S. Polasky and D. Tiffany. 2006. Environmental, economic, and energetic costs and benefits of biodiesel and ethanol biofuels. *Proceedings of the National Academy of Sciences of the United States of America* 103: 11206-11210.

Polasky, S. 2006. You can't always get what you want: conservation planning with feedback effects. *Proceedings of the National Academy of Sciences of the United States of America* 103(14): 5245-5246.

Bin, O. and S. Polasky. 2005. Evidence on the amenity value of wetlands in a rural setting. *Journal of Agricultural and Applied Economics* 37(3): 589-602.

Mason, C. and S. Polasky. 2005. What motivates membership in a non-renewable resource cartel? The case of OPEC. *Resource and Energy Economics* 27(4): 321-342.

Tarui, N. and S. Polasky. 2005. Environmental regulation with learning and innovation: rules versus discretion. *Journal of Environmental Economics and Management* 50(3): 447-467.

Polasky, S., E. Nelson, E. Lonsdorf, P. Fackler and A. Starfield. 2005. Conserving species in a working landscape: land use with biological and economic objectives. *Ecological Applications* 15(4): 1387-1401.

- Tilman, D., S. Polasky and C. Lehman. 2005. Diversity, productivity and temporal stability in the economies of humans and nature. *Journal of Environmental Economics and Management* 49(3): 405-426.
- Arthur, J.L., J.D. Camm, R.G. Haight, C.A. Montgomery and S. Polasky. 2004. Weighing conservation objectives: maximum expected coverage versus endangered species protection. *Ecological Applications* 14(6): 1936–1945.
- Boyer, T. and S. Polasky. 2004. Valuing urban wetlands: a review of non-market valuation studies. *Wetlands* 24(4): 744-755.
- Bin, O. and S. Polasky. 2004. Effects of flood hazards on property values: evidence before and after Hurricane Floyd. *Land Economics* 80(4): 490-500.
- Nalle, D.J., C.A. Montgomery, J.L. Arthur, S. Polasky and N.H. Schumaker. 2004. Modeling joint production of wildlife and timber in forests. *Journal of Environmental Economics and Management* 48(3): 997-1017.
- Polasky, S., C. Costello and C. McAusland. 2004. On trade, land-use, and biodiversity. *Journal of Environmental Economics and Management* 48(2): 911-925.
- Costello, C. and S. Polasky. 2004. Dynamic reserve site selection. *Resource and Energy Economics* 26(2): 157-174.
- Santelmann, M., D. White, K. Freemark, J.I. Nassauer, J.M. Eilers, K.B. Vache, B.J. Danielson, R.C. Corry, M.E. Clark, S. Polasky, R.M. Cruse, J. Sifneos, H. Rustigian, C. Coiner, J. Wu and D. Debinski. 2004. Assessing alternative futures for agriculture in the U.S. Corn Belt. *Landscape Ecology* 19(4): 357-374.
- Vossler, C.A., J. Kerkvliet, S. Polasky and O. Gainutdinova. 2003. Externally validating contingent valuation: an open-space survey and referendum in Corvallis, Oregon. *Journal of Economic Behavior and Organization* 51: 261-277.
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- Camm, J.D., S.K. Norman, S. Polasky and A.R. Solow. 2002. Nature reserve selection to maximize expected species coverage. *Operations Research* 50(6): 946-955.
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- Polasky, S. and O. Bin. 2001. Entry deterrence and signaling in a non-renewable resource model. *Journal of Environmental Economics and Management* 42(3): 235-256.
- Polasky, S. and A. Solow. 2001. The value of information in reserve site selection. *Biodiversity and Conservation* 10(7): 1051-1058.
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## BOOK CHAPTERS, REPORTS, BOOK REVIEWS AND OTHER PUBLICATIONS

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## GRANTS AND COOPERATIVE AGREEMENTS AWARDED

Polasky, S., P. Karieva, J. Lawler, D. Lewis, E. Lonsdorf, A. Plantinga, and V. Radeloff. Collaborative research: Integrated dynamic modeling of ecosystem services, incentive-based policies, land-use decisions, and ecological outcomes. National Science Foundation. October 1, 2008 – March 31, 2012, \$234,003.

Liu, S., S. Polasky, T. Sohl and A. Gallant. Integrated modeling of future agricultural change in the Northern Great Plains: biophysical potential, sustainability, and Economic and environmental consequences. National Aeronautics and Space Administration (subcontract through USGS EROS Lab). August 15, 2008- May 31, 2011, \$983,492.

Polasky, S. Biofuels expansion: land use and ecosystem services. National Science Foundation (subcontract through Arizona State University). March 1, 2008 - June 30, 2008, \$10,000.

Polasky, S., S. Taff, D. Mulla, Q. Huang. Lake Pepin Watershed TMDL full-cost accounting project. Minnesota Pollution Control Agency. January 2008- March 2010, \$341,000.

Polasky, S. Return on Investment (ROI). The Nature Conservancy. March 21, 2007 – August 31, 2007, \$10,000.

Tilman, D., S.E. Hobbie, S. Polasky, P.B. Reich. Biodiversity, environmental change and ecosystem functioning at the prairie-forest border. National Science Foundation. October 1, 2006 – September 30, 2012, \$4,920,000.

Polasky, S., D. Tilman, V. Eidman, F. Kulacki, J. Kuzma, and D. Tiffany. Full cost accounting of renewable and conventional energy sources. Initiative for Renewable Energy and the Environment, University of Minnesota, July 1, 2005 – June 30, 2008.

Eidman, V., K. Valentas, M. von Keitz, S. Polasky, U. Tschirner, S. Ramaswamy and R. Cairncross. Liquid fuels from biomass: an integrated biorefinery approach. Initiative for Renewable Energy and the Environment, University of Minnesota, July 1, 2005 – June 30, 2008.

Anderson, J.L., E. Nater and S. Polasky. Minnesota terrestrial carbon sequestration project. Initiative for Renewable Energy and the Environment, University of Minnesota. July 1, 2005 – December 31, 2006.

Polasky, S. Landowner contact and incentives for Topeka shiner conservation. Minnesota Department of Natural Resources. July 2003 – June 2004, \$37,567.

Packer, C., S. Polasky, R. Holt, M. Coughenour, M. Ritchie. Biocomplexity of the Greater Serengeti: humans in a biologically diverse ecosystem. National Science Foundation, July 2003 – June 2006, \$1,722,500.

Siegel, D., C. Costello, B. Kendall, S. Gaines, R. Warner, R. Hilborn, S. Polasky and K. Winters. Disparate scales of process and nearshore fishery management. National Science Foundation, September 2003 – August 2008, \$1,995,951.

Polasky, S. and L. Westphal. Developing a collaborative modeling approach to assess biological and economic effects of land use decisions and pollution mitigation. USDA Forest Service, April 2003 – March 2008, \$82,100.

Polasky, S. and R.G. Haight. Open space and property values: an urban economics model with application to the Twin Cities Region. USDA Forest Service, September 2001 – August 2003, \$50,000.

Polasky, S. and B. Palik. Predicting ecological and social impacts of riparian landuse in a north central lakescape. USDA Forest Service, September 2001 – August 2003, \$88,488.

Packer, C. and S. Polasky. Serengeti: the origins and future of a complex ecosystem. National Center for Ecological Analysis and Assessment, September 2001 – August 2003.

Bolte, J., M. Santelmann, S. Polasky, P. Jepson, C. Smith and J. Li. Developing methods and tools for watershed restoration design, implementation, and assessment in the Willamette Basin, Oregon. U.S. Environmental Protection Agency, October 1998 – September 2001, \$883,550.

Montgomery, C., J. Arthur, S. Polasky and N. Shumaker. Land management with biological and economic objectives. U.S. Environmental Protection Agency, October 1998 - December 2000, \$131,089.

Montgomery, C., S. Polasky and J. Arthur. Land management with biological and economic objectives. North Central Forest Experiment Station, U.S. Forest Service, July 1997- June 2002, \$31,500.

Santelmann, M.V. G.E. Matzke, S. Polasky and K. Freemark. Modeling effects of alternative landscape design and management on water quality and biodiversity in Midwest agricultural watersheds. National Science Foundation and U.S. Environmental Protection Agency, January 1997 - December 1999, \$1,228,521.

Solow, A., J. Camm, B. Csuti, R. O'Connor and S. Polasky. Decision-making under uncertainty in the conservation of biological diversity. National Science Foundation and U.S. Environmental Protection Agency, September 1996 - August 1998, \$271,463.

O'Neill, T. and M. Shaughnessy, facilitators, in collaboration with C. Bruce, B. Csuti, D. Hulse, J. Kagan, J. Kimerling, S. Polasky, G. Sieglitz, S. Vickerman, M.J. Wevers, and D. White. Multiscale biodiversity conservation: a prototype process for Oregon. Submitted by Oregon Department of Fish and Wildlife, in association with Defenders of Wildlife, Oregon Division of State Lands (Oregon Natural Heritage Program), Oregon State University, University of Idaho, University of Oregon. U.S. Environmental Protection Agency, October 1995-September 1997, \$550,000.

Polasky, S. and J. Kerkvliet. Words and votes: comparing contingent valuation and election results for a local environmental good. Oregon State University Research Council, September 1995, \$6,360.

Adams, R., Polasky, S., Solow, A., and Sampson, D. The value of improved ENSO forecasts: a preliminary assessment of effects on fisheries in the Pacific Northwest. Office of Global Programs, National Oceanic and Atmospheric Administration, May 1995-April 1996, \$74,809.

Chomitz, K., S. Polasky, and A. Solow. Practical methodologies for measuring biodiversity: application to conservation planning. World Bank Proposal Preparation Grant, August 1994-February 1995, \$12,000.

Broadus, J., A. Solow, and S. Polasky. On the measurement and valuation of biological diversity. Environmental Protection Agency, August-October 1993, \$25,000.

#### CONFERENCE, WORKSHOP AND SEMINAR PRESENTATIONS 1993-

“Watershed-scale full-cost accounting,” Minnesota River Integrated Watershed Study Interagency Study Team Meeting - Modeling Focus Group, University of Minnesota, December 2011.

“Closing the gap between development and conservation,” Ecosystem Services & Human Well-Being, Rockefeller Foundation & Stanford University Uncommon Dialogues, Woods Institute for the Environment, Stanford University, December 2011.

“Valuing nature: incorporating ecosystem services into decision-making,” Environmental Science and Policy Program Distinguished Lecture Series, Michigan State University, December 2011.

“Optimal conservation with spatially-dependent benefits and asymmetric information,” Agricultural, Food, and Resource Economics Department, Michigan State University, December 2011.

“Decision-making under great uncertainty: environmental management in an era of global change,” Kellogg Biological Station, Michigan State University, December 2011.

“Valuing nature: incorporating ecosystem services into decision-making,” Keynote Address International Forum for Ecosystem Adaptability Science III, Adaptability of Human Societies to Perturbations, Sendai, Japan, November 2011.

“Decision-making under great uncertainty: environmental management in an era of global change,” Workshop of Economics of Biodiversity and Ecosystem Services, Tohoku University, Sendai, Japan, November 2011.

“Valuing ecosystem services,” Water Resources Seminar, University of Minnesota, October 2011.

“Valuing ecosystem services,” University of Minnesota Extension Program Conference, Bloomington, MN, October 2011.

“Ecosystem services, biodiversity and welfare,” 13<sup>th</sup> Annual BIOECON Conference, Keynote Address, Geneva, Switzerland, September 2011.

“The value of ecosystem services,” Institute of Ecology, Chinese Academy of Sciences, Beijing, China, August 2011.

“Working on the grand challenges in environmental science and policy: the role of environmental economics,” Keynote Address, Camp Resources, Wrightsville Beach, NC, August 2011.

“Valuing nature: incorporating ecosystem services into decision making,” Moore Foundation, Palo Alto, CA, May 2011.

“Valuing nature: incorporating ecosystem services into decision-making,” Minnesota Chapter of the American Association of Landscape Architects, Minneapolis, April 2011.

“Integrating ecology and economics to value ecosystem services,” Keynote Address, Life Sciences Week, University of Missouri, Columbia, MO, April 2011.

“Economics of ecosystem services and biodiversity,” Short Course (series of lectures), Latin American and Caribbean Environmental Economics Program, CATIE, Turriaba, Costa Rica, April 2011.

“Cooperation on climate change mitigation,” Environmental and Resource Economics Seminar, Department of Applied Economics, University of Minnesota, March 2011.

“Valuing nature: Incorporating ecosystem services into policy and decision-making,” Swedish Parliamentary All-Party Committee on Environmental Objectives, Stockholm, March 2011.

“Natural capital and human well-being,” Research Frontiers in Sustainability Science: Bridging Disciplines and Practices, American Association for the Advancement of Science Annual Meeting, Washington, DC, February 2011.

“Complex adaptive systems and the challenge of sustainability,” US Seminar on Initiatives for Sustainability: Preparing for the Rio 2012 Earth Summit, American Association for the Advancement of Science Annual Meeting, Washington, DC, February 2011.

“Measuring and valuing natural assets,” Workshop on Measuring Food Insecurity and Assessing the Sustainability of Global Food Systems, Keck Center of the National Academies, Washington, DC, February 2011.

“Analyzing tradeoffs,” Workshop on Designing a Global Monitoring Network, Bill and Melinda Gates Foundation, Seattle, WA, January 2011.

“Valuing nature: incorporating ecosystem services into decision-making,” School of Life Sciences, Arizona State University, Tempe, AZ, November 2010.

“Valuing nature: incorporating ecosystem services into decision-making,” Plenary talk, Minnesota Water Resources Conference, St. Paul, MN, October 2010.

“Ecosystem services: provision, value and policy,” Plenary talk, Land Systems, Global Change and Sustainability, Global Lands Project Open Science Meeting, Tempe, AZ, October 2010.

“Ecosystem services and conservation,” Biology Department Seminar, University of St. Thomas, St. Paul, MN, October 2010.

“Valuing nature to improve environmental decision-making,” Legislative-Citizen Commission on Minnesota Resources, St. Paul, MN, September 2010.

“Implementing optimal conservation,” Environmental and Resource Economics Seminar, Department of Applied Economics, University of Minnesota, September 2010.

“Full cost accounting for liquid transportation fuels: Ethanol and gasoline,” Strategic Directions in Social, Legal and Environmental Dimensions of Research on Biofuels, Energy Biosciences Institute, University of Illinois, Champaign-Urbana, IL, September 2010.

“Modeling provision and value of multiple ecosystem services from landscapes,” Workshop on Scale, Location, and Spatial Interactions in the Economic Analysis of

Multi-Functional Natural Resources: Lessons for Forestry, Nancy, France, September 2010.

“Valuing nature in a changing world,” Ecological Society of America Annual Meeting, Pittsburgh, PA, August 2010.

“The impact of land-use change on ecosystem services, biodiversity and returns to landowners: a case study in the State of Minnesota,” World Congress of Environmental and Resource Economists, Montreal, Canada, July 2010.

“Climate change and ecosystem services: impacts and adaptation,” Sustainability Science for Food, Forests and Floods: Integrating Climate Adaptation and Pro-Poor Resource Management, University of Hawaii, Honolulu, HI, May 2010.

“Comparing the full costs of ethanol and gasoline,” Bioenergy Camp 2010, sponsored by the Biobased Industry Center, Iowa State University, Perry, IA, May 2010.

“Ecosystem services and conservation.” Minnesota Department of Natural Resources, St. Paul, MN, May 2010.

“Inclusive wealth, natural capital and ecosystem services.” Occasional series on research in sustainability science, Institute on the Environment, University of Minnesota (in conjunction with Harvard, Princeton, Florida International, Arizona State and UNAM-Mexico), April 2010.

“Optimal management with potential regime shift.” Environmental and Resource Economics Seminar, Department of Applied Economics, University of Minnesota, March 2010.

“The impact of land use change on ecosystem services, biodiversity and returns to landowners.” Minnesota Chapter of the Society for Conservation Biology Annual Meeting, Brainerd, MN, March 2010.

“Coming down to earth: valuing nature for better decisions.” Distinguished Fellows Address, Australian Agricultural & Resource Economics Society Annual Conference, Adelaide, February 2010.

“Coming down to earth: valuing nature to improve environmental decision-making.” Teale Lecture, University of Connecticut, Storrs, CT, November 2009.

“Conservation economics.” Environmental and Resource Economics Seminar, Department of Applied Economics, University of Minnesota, November 2009.

“Mind the gap: building bridges to mainstream the value of ecosystem services in everyday decisions.” Frontiers in the Environment, Institute on the Environment, University of Minnesota, October 2009.

“Roundtable on the TEEB-initiative on the economics of ecosystems and biodiversity; scientific and practical challenges in framing the economics of ecosystem services.” DIVERSITAS Open Science Conference 2, Cape Town, South Africa, October 2009.

“A landscape level analysis of trade-offs and synergies on carbon sequestration and biodiversity conservation.” DIVERSITAS Open Science Conference 2, Cape Town, South Africa, October 2009.

“Effective governance for ‘mainstreaming’ ecosystem services.” DIVERSITAS Open Science Conference 2, Cape Town, South Africa, October 2009.

“Mainstreaming ecosystem services.” Ecology and Evolution Seminar, University of California, Davis, October 2009.

“Valuing marine ecosystem services in practice.” The Value of Our Marine Environment, Stockholm, September 2009.

“Ecosystem services: accounting for the value of nature in decision-making.” Visions of a Sustainable Mississippi River: The Confluence of Ecological, Economic and Cultural Values, Collinsville, IL, August 2009.

“Biodiversity roundtable.” European Association of Environmental and Resource Economists Annual Meeting, Amsterdam, June 2009.

“Challenges of integrating ecology and economics in cost-benefit analysis.” European Association of Environmental and Resource Economists Annual Meeting, Amsterdam, June 2009.

“Integrating economic and ecological models: application to mapping and valuing ecosystem services.” Keynote Address, Ulvön Conference on Environmental Economics, Ulvön, Sweden, June 2009.

“Mainstreaming ecosystem services – quantification, valuation and local policy.” Ecosystem Services – a tool for sustainable development, Kristianstad, Sweden, June 2009.

“Integrating ecological and economic models in the analysis of ecosystem services and biodiversity conservation.” Department of Economics Ca’ Foscari University, Venice, May 2009.

“Comparing the costs of ethanol and gasoline.” Environmental Economics Seminar, Yale University, April 2009.

“The science, economics and institutions of managing and paying for ecosystem services,” Short course (series of lectures), South Asia Network for Development and



Environmental Economics and Economy and Environmental Program for Southeast Asia, Chang-Mai, Thailand, April 2009.

“Mind the gap: building bridges to mainstream the value of ecosystem services in everyday decision-making.” Stockholm Seminar, Stockholm, March 2009.

“Valuing nature: ecosystem services and biodiversity.” Twenty-first Century Ecosystems: Systematic Risk and the Public Good: A National Academies Symposium on the Science and Policy for Managing the Living World Two Centuries after Darwin, Washington, DC, February 2009.

“The efficiency of voluntary incentive policies for preventing biodiversity loss.” Department of Economics, Gothenburg, Sweden, January 2009.

“Mapping and valuing ecosystem service.” Conservation Learning Exchange, The Nature Conservancy, Vancouver, Canada, October 2008.

“Cost of maintaining global biodiversity security under climate change.” IUCN World Conservation Congress, Barcelona, Spain, October 2008.

“Land use, conservation and ecosystem services.” Helmholtz Centre for Environmental Research – UFZ, Leipzig, Germany, September 2008

“Land use, conservation and ecosystem services.” Landscape/Seascape Lab Seminar Series, Stockholm Resilience Centre, Stockholm, Sweden, September 2008

“Biofuels, carbon and air pollution: comparing the full cost of renewable and conventional fuels.” Metropolitan Energy Policy Coalition, Minnesota Association of Counties, St. Paul, MN, August 2008.

“Land use, conservation and ecosystem services.” The Nature Conservancy, Minneapolis, MN, July 2008.

“Valuing ecosystem services of Great Lakes.” Society for Conservation Biology Annual Meeting, Chattanooga, TN, July 2008.

“The full cost of ethanol versus gasoline,” Society for Conservation Biology Annual Meeting, Chattanooga, TN, July 2008.

“Integrating ecological and economic models.” Society for Conservation Biology Annual Meeting, Chattanooga, TN, July 2008.

“Conservation economics: a quick tour of economics relevant for conservation biology.” Society for Conservation Biology Annual Meeting, Chattanooga, TN, July 2008.

“Land use, conservation and ecosystem services.” USGS EROS Lab, Sioux Falls, SD, June 2008.

“Biofuels and the environment,” Institute on the Environment Roundtable, University of Minnesota, May 2008.

“Spatial externalities,” Environmental and Resource Economics Seminar, Department of Applied Economics, University of Minnesota, April 2008.

“Climate change and the economic and ecological aspects of energy use: the case of biofuels,” University of Wisconsin Milwaukee Conference on Climate Change and Sustainable Development, Milwaukee, WI, April 2008.

“Land use, conservation and ecosystem services,” Sustaining the Flow of Wealth in Northeast Minnesota, University of Minnesota, Duluth, April 2008.

“Biofuels and the environment,” Twin Cities Agricultural Roundtable, Minneapolis, April 2008.

“A full cost accounting framework for load-reduction planning,” 2008 Lake Pepin TMDL Policy Forum, Red Wing, MN, April 2008.

“Modeling multiple ecosystem services and tradeoffs at landscape scales,” University of Nebraska, March 2008.

“Politics before science: the case of biofuels,” Environmental Law and Economics Workshop, University of Arizona, March 2008.

“Land clearing and the biofuel carbon debt,” Environmental and Resource Economics Seminar, Department of Applied Economics, University of Minnesota, February 2008.

“Valuing ecosystem services: the good, the bad and the ugly,” National Center for Ecological Analysis and Synthesis, Santa Barbara, CA, February 2008.

“Indicators, services and values,” Economics and Conservation in the Tropics: A Strategic Dialogue, Gordon and Betty Moore Foundation, San Francisco, February 2008.

“Cap-and-trade 101,” Minnesota Legislature, January 2008.

“The promise and pitfalls of biofuels,” Department of Civil Engineering, University of Minnesota, December 2007.

“Energy policy and the full costs of energy use,” E3 2007: The Midwest's Premiere Energy, Economic, and Environmental Conference, University of Minnesota, November 2007.

“A model of inspection, detection and control of invasive species,” Economic and Ecological Science and Management of Invasive Species, Arizona State University, Tempe, AZ, October 2007.

“The full cost of biofuels,” Minnesota Economic Association, Macalester College, St. Paul, MN, October 2007.

“Economics and invasive species,” Workshop on Invasive Species Management, Michigan State University, East Lansing, MI, October 2007.

“Integrating ecological and economic analysis,” Economics and Ecosystems Workshop, San Francisco State University, October 2007.

“Bioeconomics of biofuels: environmental and economic consequences of shifting to biomass energy,” Symposium of the American Ecological Research Centers, Smithsonian Institution, Washington, DC, September 2007.

“Comparing the ecological economics of biofuel crops,” Ecosystem Science: Informing a Sound Bioenergy Policy, Congressional Briefing, Washington, DC, September 2007.

“Maximizing return on investment in conservation,” Environmental and resource economics seminar, University of Minnesota, September 2007.

“Mapping and valuing ecosystem services: What do we know? What do we need to know?” Ecological Society of America Annual Meeting, San Jose, CA, August 2007.

“Biodiversity and ecosystem services,” 2007 European Summer School in Resource and Environmental Economics, Venice, July 2007.

“Efficiency of incentives to provide ecosystem services,” Society for Conservation Biology Annual Meeting, Port Elizabeth, South Africa, July 2007.

“Conservation economics: a quick tour of economics relevant for conservation biology,” Short Course, What Do Social Sciences have to Offer, Society for Conservation Biology Annual Meeting, Port Elizabeth, South Africa, July 2007.

“Ecosystem services: provision, valuation and incentives,” Ecological Research Lecture Series, US EPA, Washington, DC, June 2007.

“Notes on valuing ecosystem services,” Natural Capital Workshop, World Wildlife Fund, Washington, DC, June 2007.

“Notes on valuing ecosystem services,” Natural Capital Workshop, The Nature Conservancy, Arlington, VA, June 2007.

“Economics of ecosystem services,” Workshop on Ecosystem Services, DIVERSITAS, Paris, May 2007.

“Emerging environmental issues: how you can make a difference,” Commencement Address, College of Food, Agriculture and Natural Resource Sciences, University of Minnesota, May 2007.

“Incorporating ecosystem services and biodiversity conservation into landscape-level planning,” Conservation Biology Seminar, University of Minnesota, April 2007.

“Where to put things: spatial management with biological and economic objectives,” Keynote address, Inver Hills Community College Faculty Retreat, St Paul, MN, April 2007.

“Where to put things: spatial management with biological and economic objectives,” Department of Economics, University of Calgary, Alberta, Canada, March 2007

“Implementing protected areas on a working forest landscape,” Workshop on Incentives for Biodiversity Conservation on Public Forest Land, Banff, Alberta, Canada, March 2007.

“Where to put things: spatial management with biological and economic objectives,” Department of Economics, University of Central Florida, Orlando, FL, March 2007.

“Bioeconomics of biofuels: grassland restoration and renewable energy,” 6<sup>th</sup> Annual LTER Mini Symposium, National Science Foundation, Arlington, VA, March 2007.

“Space: the final frontier. Comments on Smith, Wilen and Sanchirico.” *Frontiers in Environmental Economics*, Resources for the Future, Washington, DC, February 2007.

“Thinking clearly about ecosystem services,” *Ecosystem Services in Latin America and the Caribbean*, Cartagena, Colombia, February 2007.

“Biodiversity conservation and ecosystem services,” Keynote address, *Understanding Agriculture’s Effects on Amphibians and Reptiles in a Changing World*, St. Louis, MO, February 2007.

“Economics and agriculture: past, present and future,” *Understanding Agriculture’s Effects on Amphibians and Reptiles in a Changing World*, St. Louis, MO, February 2007.

“Where to put things: spatial management with biological and economic objectives,” *Environmental and Resource Economics Seminar*, University of Minnesota, February 2007.

“Where to put things: spatial management with biological and economic objectives,” *Nicholas School of the Environment*, Duke University, January 2007.

“Valuing natural resources and economic incentives,” Economics for Natural Resource Managers, Minnesota Chapter of the American Fisheries Society, St. Cloud, MN, December 2006.

“The economics of ecosystem services: influencing policy with science,” Conservation in Science and Practice Conference, The Nature Conservancy, Tucson, AZ, November 2006.

“The supply of terrestrial carbon sequestration in Minnesota,” Minnesota Terrestrial Carbon Sequestration Workshop: Carbon and the Minnesota Landscape, November 2006.

“Economics and sustainability: an oxymoron?” Inaugural faculty seminar on teaching sustainability, University of Minnesota Sustainability Program, November 2006.

“Mapping the economic flow of ecosystem services,” Kathryn Fuller Science for Nature Symposium, World Wildlife Fund, Washington DC, October 2006.

“Biodiversity conservation and ecosystem services,” Environmental and Resource Economics Seminar, University of Minnesota, October 2006.

“Where to put things? Spatial land management with biological and economic objectives,” Plenary Talk, 8<sup>th</sup> Annual Bioeconomics Conference, Cambridge, UK, August 2006.

“Biodiversity conservation and ecosystem services,” Plenary Lecture, World Congress of Environmental and Resource Economists, Kyoto, Japan, July 2006.

“Valuing ecosystem services,” International Rivers Conference, La Crosse, WI, June 2006.

“Valuing ecosystem services,” Plenary Lecture, American Institute of Biological Sciences Annual Meeting, Washington, DC, May 2006.

“Desperately seeking alternatives: where will sustainable energy supply come from?” A Balance for the Future: The Science of Sustainability, St. Olaf College Honors Day Science Symposium, Northfield, MN, May 2006.

“Environmental regulation in a dynamic model with uncertainty and investment,” Environmental and Resource Economics Seminar, University of Minnesota, April 2006.

“Environmental regulation in a dynamic model with uncertainty and investment,” National Bureau of Economic Research, Cambridge, MA, April 2006.

“Conservation economics: decision-making with irreversible consequences,” Keynote Address, Frontiers in natural resource economics: a symposium honoring the career of Richard C. Bishop, University of Wisconsin, March 2006.

“Environmental policy workshop,” Minnesota Pollution Control Agency, St. Paul, MN, February 2006.

“The apparent and true costs of toxicity,” Minnesota Air, Water and Water Environmental Conference, Bloomington, MN, February 2006.

“Valuing ecosystem services,” Millennium Ecosystem Assessment Interdisciplinary Workshop and Seminar Series, University of Michigan, January 2006.

“Where to put things? Spatial land management with biological and economic objectives,” Iowa State University, November 2005.

“Linking humans and ecosystems: an integrated modeling approach to the Serengeti Ecosystem,” DIVERSITAS Open Science Conference, Oaxaca, Mexico, November 2005.

“Biodiversity and ecosystem services,” DIVERSITAS Open Science Conference, Oaxaca, Mexico, November 2005.

“Principles for cost-effective monitoring of ecosystem services,” Workshop on valuation of ecosystem services in agriculture, Michigan State University, October 2005.

“Ecological and economic constraints to the sustainability of agriculture” Conference on Sustainable Development: Global Priorities, Local Applications, University of Minnesota, Crookston, October, 2005.

“Environmental economics of pollinator decline,” Workshop on Status of Pollinators in North America, National Research Council, Washington, DC, October 2005.

“Spatial bioeconomics under uncertainty,” Heartland Environmental Resource Economics Workshop, Iowa State University, September 2005.

“Spatial bioeconomics under uncertainty,” Environmental and Resource Economics Seminar, University of Minnesota, September 2005.

“What do economists need from ecologists for valuing ecosystem services?” Ecological Society of America Annual Meeting, Montreal, August 2005.

“Where to put things? Spatial land management with biological and economic objectives,” AERE 2005 Summer Workshop, Jackson, WY, June 2005.

“Defining biodiversity conservation objectives: implications for efficient conservation strategies,” Integrating Economics and Ecology Conference, Santa Fe, NM, April 2005.

“Defining biodiversity conservation objectives: implications for efficient conservation strategies,” Department of Agricultural Economics, North Carolina State University, January 2005.

“Full cost accounting for alternative energy sources,” Initiative for Renewable Energy and the Environment Conference, University of Minnesota, November 2004.

“Linking humans and ecosystems: an integrated modeling approach,” Conservation Biology Seminar, University of Minnesota, November 2004.

“Diversity and Ecosystem Services,” Integrated modeling of economies and ecosystems, DIVERSITAS Workshop, Paris, November 2004.

“Diversity and Ecosystem Services,” Bren School of the Environment, University of California at Santa Barbara, October 2004.

“Valuing wetlands using evidence from property values,” Water Resources Seminar, University of Minnesota, September 2004.

“Conserving species on a working landscape: conservation with biological and economic objectives” International Ecological Economics Society Meeting, Montreal, CA, July 2004.

“Using the coupled human-natural systems model for policy and management,” Serengeti Biocomplexity Conference, Seronera, Tanzania, June 2004.

“Dynamic conservation strategy,” Spatial Aspects of Reserve Design Optimization under Economic Constraints, Abdus Salam International Centre for Theoretical Physics, Trieste, Italy, April 2004.

“Linking humans and ecosystems: an integrated modeling approach,” Biocomplexity Research Group, Colorado State University, Ft. Collins, CO, March 2004.

“Conserving species on a working landscape: conservation with biological and economic objectives,” Department of Agricultural Economics, Colorado State University, Ft. Collins, CO, March 2004.

“Valuing wetlands using evidence from property values,” Minnesota Water 2004: Policy and Planning to Ensure Minnesota’s Water Supplies, Minneapolis, MN, March 2004.

“Environmental regulation with innovation and learning: rules versus discretion,” Department of Economics, Laval University, Quebec, Canada, March 2004.

“Conserving species on a working landscape: conservation with biological and economic objectives,” Department of Economics, University of Quebec at Montreal, Montreal, Canada, March 2004.

“Conserving species on a working landscape: conservation with biological and economic objectives,” Geography Department, University of Minnesota, November 2003.

“Three challenges in conservation planning: incorporating dynamics, uncertainty and opportunity cost,” Department of Biology, University of St. Thomas, St. Paul, MN, July 2003.

“Scale, travel and disease,” Conference on Bioinvasions, University of Wyoming, Laramie, WY, June 2003.

“Comparing invasive species and habitat loss as threats to biodiversity: economic and policy considerations,” Economics of Invasive Species Workshop, Economic Research Service, Washington, DC, May 2003.

“Scale and disease,” Frontiers in Natural Resource and Environmental Economics: A Conference in Honor of Gardner M. Brown, University of Washington, Seattle, WA, April 2003.

“Three challenges in conservation planning: incorporating dynamics, uncertainty and opportunity cost,” Biodiversity Seminar, Oregon State University, April 2003.

“Setting priorities for conserving biological diversity,” Ecology Center, Utah State University, December 2002.

“What (if anything) can ecologists learn from economics?” Ecology Center, Utah State University, December 2002.

“Ecosystem goods and services and their limits: the roles of biological diversity and management practices,” Symposium on Scarcity and Growth in the New Millennium, Resources for the Future, Washington, DC, November 2002.

“What ecologists should learn from economics,” Heartland Environmental Resource Economics Workshop, Iowa State University, September 2002.

“Marketable pollution permits with large firms or a large market,” Department of Economics, University of Michigan, September 2002.

“Trade, land use and species conservation,” Department of Agricultural Economics, Michigan State University, September 2002.

“Trade, land use and species conservation,” Workshop on Trade, Renewable Resources and Biodiversity, Tilburg, The Netherlands, September 2002.

“Reconsidering ‘Conservation Reconsidered,’” World Congress of Environmental and Resource Economists. Monterey, CA, June 2002.



“Dynamic reserve site selection,” World Congress of Environmental and Resource Economists. Monterey, CA, June 2002.

“Valuing urban wetlands,” Workshop on Urban Wetlands: Sustaining Multiple Functions, Portland, OR, May 2002.

“In the long run are we all dead? Dynamic considerations in biodiversity conservation” Department of Economics, Georgia State University, April 2002.

“Cooperation in the commons,” Department of Economics, Emory University, April 2002.

“Diversity, productivity and stability in the economies of humans and nature,” Department of Agricultural and Applied Economics, University of Wisconsin, February 2002.

“The economic value of groundwater when quantity is an issue,” Minnesota Ground Water Association Fall Conference, St. Paul, November 2001.

“Valuation of biodiversity,” Chicago Wilderness Sustainability Team Meeting on the Economic Valuation of Biodiversity, Chicago, November 2001.

“Dynamic reserve site selection,” Environmental and Resource Economics Seminar, University of Minnesota, October 2001.

“Cooperation in the commons,” Heartland Environmental Economics Workshop, Ames, IA, September 2001.

“Comments on the White Paper on Improving Environmental Benefits Analysis,” Improving Environmental Benefits Analysis Workshop, U.S. Army Corp of Engineers, Boulder, CO, July 2001.

“Policy perspectives on adaptive management of terrestrial systems,” Conference on Adapting Adaptive Management, Santa Barbara, CA, May 2001.

“Integrating uncertainty and cost into setting conservation priorities,” Center for Environmental Science and Policy, Stanford University, May 2001.

“Dynamic reserve site selection,” Center for Conservation Biology, Stanford University, May 2001.

“Dynamic reserve site selection,” Economics of Biodiversity Conference, Santa Barbara, CA, May 2001.

“Property values and water resources,” Minnesota Lakes and Rivers Conference,

Brainerd, MN, May 2001.

“Setting priorities for species conservation: biological and economic consideration,” Environmental Sciences Lecture Series, Macalester College, March 2001.

“Diversity, productivity and stability in the economies of humans and nature,” Environmental and Resource Economics Seminar, University of Minnesota, February 2001.

“Integrating detailed economic and biological information into large-scale conservation plans,” Association of Environmental and Resource Economists Session, Allied Social Science Association Meetings, New Orleans, LA, January 2001.

“Nature Reserve Selection to Maximize Expected Species Coverage,” Economics Department, Iowa State University, December 2000.

“Nature Reserve Selection to Maximize Expected Species Coverage,” Environmental Economics Seminar, Columbia University, November 2000.

“Integrating Detailed Economic and Biological Information into Large-Scale Conservation Plans,” Department of Applied Economics and Management, Cornell University, November 2000.

“Private and Social Incentives for Conservation: What are the Prospects for Alignment?” Biodiversity and Land Use Workshop, Resources for the Future, Washington, DC, October 2000.

“Integrating Detailed Economic and Biological Information into Large-Scale Conservation Plans,” Canadian Resource and Environmental Economics 10<sup>th</sup> Annual Conference, University of Guelph, October 2000.

“Analysis of the Threshold and Expected Coverage Approaches for the Probabilistic Reserve Selection Problem,” Environmental and Resource Economics Seminar, University of Minnesota, October 2000.

“Valuing Wetlands,” Department of Geology and Geophysics, University of Minnesota, September 2000.

“Ecology, Economics, and Ecological Economics,” Heartland Environmental and Resource Economics Workshop, Iowa State University, September 2000.

“Characterization, Quantification and Valuation of Ecosystem Services,” A Workshop on Estimating the Economic Values and Impacts of Water-Resources Projects in the Mississippi River Basin, Memphis, TN, September 2000.

“Renewable Resource Management with Environmental Prediction,” International

Institute of Fisheries Economics and Trade Conference, Corvallis, OR, July 2000.

“Setting Priorities for Species Conservation: Biological and Economic Consideration,” Environmental Policy Initiative Seminar, Ohio State University, May 2000.

“Strategic Interaction in Tradable Permit Markets,” Department of Agricultural, Resource and Development Economics, Ohio State University, May 2000.

“Setting Priorities for Species Conservation: Biological and Economic Consideration,” Environmental Horizons 2000 Conference, University of Illinois, March 2000.

“Comparing Taxes and Marketable Permits with Strategic Firms,” Environmental and Resource Economics Seminar, University of Illinois, March 2000.

“Strategies for Choosing Sites to Conserve Biodiversity,” Joint session of the Western Regional Science Association and the W-133 Regional Research Project Meetings, Kauai, Hawaii, February 2000.

“Signaling Information about Resource Stocks,” Department of Applied Economics, University of Minnesota, January 2000.

“Choosing Sites to Conserve Species with Incomplete Information,” GREEN-CIRANO Conference on Ecology and Economics, Quebec, December 1999.

“Land Management with Biological and Economic Objectives,” Economic Analysis and Land Use Policy Conference, sponsored by US EPA, Washington, DC, December 1999.

“Measuring Diversity,” Conservation Biology Seminar, University of Minnesota, November 1999.

“Choosing Reserve Sites to Conserve Species: Incorporating Cost and Uncertainty,” Department of Applied Economics, University of Minnesota, October 1999.

“Conserving Biological Diversity with Incomplete Information,” Department of Economics, University of Michigan, October 1999.

“Modeling Effects of Alternative Landuse on Biodiversity, Water Quality, and Farm Profit in Midwest Agricultural Watersheds,” Heartland Environmental and Resource Economics Workshop, Iowa State University, September 1999.

“Electricity Restructuring,” Painting the White House Green Conference, University of Wyoming, September 1999.

“Biodiversity Conservation,” Rural Landuse Workshop, University of Maine, July 1999.

“Selecting Biological Reserves Cost-Effectively: An Application to Terrestrial

Vertebrate Conservation in Oregon,” Pacific Northwest Environmental Economics Conference, University of Oregon, May 1999.

“Investment, Information Collection and Endangered Species Conservation on Private Land,” Environmental Law Seminar, University of Pennsylvania, April 1999.

“Analyzing Biodiversity Conservation: Land Management with Biological and Economic Objectives, U.S. Forest Service, Washington, DC, April 1999.

“Integrating Ecology and Economics with Application to Biodiversity Conservation,” University of Minnesota, March 1999.

“Species Conservation on Private Land,” Environmental Law Conference, University of Oregon, March 1999.

“Conservation of Biological Diversity with Scarce Resources,” Department of Ag & Resource Economics, University of Maryland, December 1998.

“Economics Approaches to Conservation,” Meeting of the President’s Committee of Advisors on Science and Technology, Washington, DC, November 1998.

“Decision-Making under Uncertainty in the Conservation of Biological Diversity,” Valuing and Managing Ecosystems: Economic Research Sponsored by NSF/EPA, Washington, DC, October 1998.

“Integrating Ecology and Biology with Economics,” Frontier Seminar, American Agricultural Economics Annual Meeting, Salt Lake City, UT, August 1998.

“Conserving Biodiversity: Measurement, Valuation and Management Issues,” The Fifth Ulvon Conference on Environmental Economics, Ulvon, Sweden, June 1998.

“Conserving Biological Diversity with Scarce Resources,” Department of Economics, UCLA, May 1998.

“Conservation Priorities with Budget Constraints and Uncertainty,” Biodiversity Research Consortium Meeting, U.S. E.P.A., Corvallis, OR, May 1998.

“The Value of Biodiversity,” National Parks and Reserves in the Global Ecosystem, Yellowstone National Park 125<sup>th</sup> Anniversary Symposium, Bozeman, MT, May 1998.

“Conserving Biodiversity Under a Budget Constraint,” Institute for Operations Research and the Management Sciences (INFORMS) Meeting, Montreal, April 1998.

“Conserving Endangered Species with Limited Budgets,” Hatfield Marine Science Center, Newport, OR, April 1998.

“Economic Issues in Conserving Species,” Workshop on the Human Dimensions of Forest Management, Canadian Forestry Service, Montreal, March 1998.

“On The Marginal Value of Species and Habitats,” W-133 Benefits and Costs in Natural Resource Planning, Annual Meeting, Colorado Springs, CO, March 1998.

“Entry Deterrence and Signaling in a Non-Renewable Resource Model,” Department of Agricultural Economics, University of California at Davis, February 1998.

“Strategic Preemption in a Common Property Resource: A Continuous Time Approach,” Association of Environmental and Resource Economists Session, Allied Social Science Association Meetings, Chicago, January 1998.

“Collusion in the Commons,” Association of Environmental and Resource Economists Session, Allied Social Science Association Meetings, Chicago, January 1998.

“Strategic Preemption in a Common Property Resource: A Continuous Time Approach,” Marine Policy Center, Woods Hole Oceanographic Institution, December 1997.

“Strategic Preemption in a Common Property Resource: A Continuous Time Approach,” Department of Environmental and Natural Resource Economics, University of Rhode Island, December 1997.

“Conserving Biodiversity with Scarce Resources,” Environmental Studies Department, Bowdoin College, November 1997.

“Economic Valuation of Biodiversity,” International Summer School on Biodiversity and Systematics, Canadian Museum of Nature and Queen’s University, Ottawa, Canada, July 1997.

“Conserving Biodiversity with Scarce Resources,” Association of Environmental and Resource Economists, 1997 Workshop, The Economic Analysis of Ecosystems, Annapolis, Maryland, June 1997.

“Signaling Private Information about Resource Stocks,” Oregon State University, May 1997.

“Conserving Biodiversity with Scarce Resources,” Social Order and the Endangered Species Act Conference, Laramie, Wyoming, April 1997.

“When the Truth Hurts: Endangered Species Policy on Private Land with Incomplete Information,” Social Order and the Endangered Species Act Conference, Centennial, Wyoming, April 1997.

“Conserving Biodiversity with Scarce Resources,” Portland State University, January 1997.

“Non-renewable Resource Cartels: Who's in the Club?”, Department of Economics, University of Michigan, November 1996.

“Conserving Biodiversity with Scarce Resources,” Miami University Sustainability Project, Miami University, Oxford, OH, October 1996.

“Conserving Biodiversity with Scarce Resources,” Science Colloquium, Lewis and Clark College, October 1996.

“Issues in Biodiversity Conservation Policy,” at the Seminario Sobre Politica De Recursos Naturales Y Medio Ambiente, Bogata, Colombia, August 1996.

“Endangered Species Conservation on Private Land,” Department of Agricultural and Resource Economics, Oregon State University, April 1996.

“Conserving Biodiversity with Scarce Resources,” Workshop on "Measuring Biodiversity" at the Annual Landscape Ecology Symposium, International Association for Landscape Ecology, Galveston, TX, March 1996.

“Comparing CVM Responses with Voting Behavior: Open-Space Survey and Referendum in Corvallis,” OR, W-133 Benefits and Costs in Natural Resource Planning, Annual Meeting, Jekyll Island, GA, March 1996.

“The Measurement of Biological Diversity and Its Use in Conservation,” lecture in a series on Ecology and Economics sponsored by the Smithsonian Institution and Resources for the Future, Washington, DC, March 1996.

“Setting Priorities for Conserving Biological Diversity,” Economic Science Association Meetings, Tucson, AZ, October 1995.

“When the Truth Hurts: Endangered Species Policy on Private Land with Incomplete Information,” Department of Economics, University of California at Santa Barbara, October 1995.

“When the Truth Hurts: Endangered Species Policy on Private Land with Incomplete Information,” Department of Agricultural Economics, University of California at Davis, October 1995.

“Setting Priorities for Conserving Biological Diversity,” 5th Annual Canadian Resource and Environmental Economics Study Group, Vancouver, BC, Sept 30-Oct 1, 1995.

“Economics and Biological Issues in Conserving Biodiversity,” Lectures delivered at the Swedish University of Agricultural Sciences, Umea, Sweden, August 26-30, 1995.

“A Comparison of Reserve Selection Algorithms Using Data on Terrestrial Vertebrates in

Oregon,” Corvallis Environmental Research Lab, U.S. EPA, August 1995.

“When the Truth Hurts: Endangered Species Policy on Private Land with Incomplete Information,” Association of Environmental and Resource Economists Workshop on Compensation and Regulation: Implications for Environmental Quality and Natural Resource Use, June 1995, Annapolis, MD.

“When the Truth Hurts: Endangered Species Policy on Private Land with Incomplete Information,” Department of Economics, University of Washington, June 1995.

“Setting Priorities for Conserving Biological Diversity,” Department of Agricultural and Resource Economics, Oregon State University, May 1995.

“Setting Priorities for Conserving Biological Diversity,” Department of Economics, Washington State University, April 1995.

“Setting Priorities for Conserving Biological Diversity,” Toulouse Environmental and Resource Economics Conference, Institut D'Economie Industrielle, Universite des Sciences Sociales de Toulouse, Toulouse, France, March 30-31, 1995.

“Asymmetric Oligopoly Equilibrium in a Non-Renewable Resource Market: Theory and Evidence,” Canadian Resource and Environmental Economics Conference, Calgary, October 1994.

“Asymmetric Oligopoly Equilibrium in a Non-Renewable Resource Market: Theory and Evidence,” Western Economic Association Meetings, Vancouver, BC, June 1994.

“Asymmetric Oligopoly Equilibrium in a Non-renewable Resource Market: Theory and Evidence,” Department of Economics, Oregon State University, May 1994.

“Sustainability and Substitutability,” Oregon State University Sigma Xi Chapter, Winter Forum, March 1994.

“Setting Priorities for Conserving Biological Diversity,” Hatfield Marine Science Center, February 1994.

“Measuring Biological Diversity,” Association of Environmental and Resource Economists Session, Allied Social Science Association Meetings, Boston, MA, January 1994.

“Measuring Biological Diversity,” Economic Research Service, U.S. Department of Agriculture, December 1993.

“Issues in the Conservation of Biological Diversity,” Policy Research Department, World Bank, December 1993.

“Measuring Biological Diversity,” Department of Agricultural and Resource Economics, University of California at Berkeley, November 1993.

“Measuring Biological Diversity,” Food Research Institute, Stanford University, November 1993.

“Measuring Biological Diversity,” Department of Economics, University of Oregon, October 1993.

“Exploration and Extraction in a Duopoly Exhaustible Resource Market,” Canadian Resource and Environmental Economics Conference, Ottawa, October 1993.

“Valuing Biodiversity and Ecosystems,” Forest Products Research Conference, Madison, WI, September 1993.

“Non-Renewable Resource Cartels: Who's in the Club?” National Bureau of Economic Research Conference on Cooperation, Coordination, and Collusion among Firms, Cambridge, MA, May 1993.

“Non-Renewable Resource Cartels: Who's in the Club?” Department of International Studies, M.I.T., April 1993.

“Preserving Benefits by Preserving Species: Option Value and the Measurement of Biological Diversity,” Department of Agricultural and Resource Economics, Oregon State University, February 1993.

“Preserving Benefits by Preserving Species: Option Value and the Measurement of Biological Diversity,” Department of Agricultural and Applied Economics, University of Georgia, February 1993.

“Exploration and Extraction in a Duopoly Exhaustible Resource Market,” Department of Economics, Miami University, Oxford, OH, February 1993.

“Entry Deterrence in the Commons,” Econometrics Society Session, Allied Social Science Association Meetings, Anaheim, CA, January 1993.

## TEACHING

Econometrics (Graduate level)

Economic and Social Aspects of Conservation Biology (Graduate level)

Economics and Politics of the Environment (Undergraduate level)

Environmental Economics (Graduate and Undergraduate level)

Game Theory (Graduate level)

Industrial Organization (Graduate and Undergraduate level)

Microeconomic Theory (Graduate and Undergraduate level)



Natural Resource Economics (Graduate and Undergraduate level)  
Science and Policy of Global Change (Graduate level)

## ADVISING

### Ph.D. Dissertation Advising

#### At Boston College:

Karen Palmer (Defense September 1989)  
Jay Jones (Chair, Defense April 1990)  
John Griffin (Defense December 1990)  
Celia Cabral (Defense January 1991)  
Michael Ozog (Defense March 1991)  
Sarah Glavin (Chair, Defense May 1992)  
Michael Gallaher (Defense August 1992)  
Atreya Chakraborty (Chair, Defense September 1992)  
Sr. Beth Anne Tercek (Defense June 1993)  
Michael Salve (Defense June 1995)  
Saleh Gurcan Gulen (Defense May 1996)

#### At Oregon State University:

Ron Fleming (Ag & Resource Econ, Defense December 1995)  
Krishna Rauniyar (Family Resource Management, Defense January 1996)  
Toyo Naito (Chair, Ag & Resource Econ, Defense June 1997)  
James Weigand (Forest Science, Defense July 1997)  
Yeon-Su Kim (Forest Resources, Defense July 1998)  
Olesya Gainutdinova (Economics, Defense February 1999)  
Susan Burke (Ag & Resource Economics, Defense June 1999)  
Okmyung Bin (Chair, Economics, Defense April 2000)  
David Calkin (Forest Resources, Defense December 2000)  
Christian Langpap (Co-Chair, Ag & Resource Econ, Defense December 2002)

#### At University of Minnesota

Rob Johansson (Applied Economics, Defense November 2000)  
Jee Hoon Lee (Applied Economics, Defense May 2002)  
Tracy Boyer (Applied Economics, Defense December 2002)  
Nori Tarui (Chair, Applied Economics, Defense July 2004)  
Latha Nagarajan (Applied Economics, Defense December 2004)  
Daniel Kramer (Chair, Conservation Biology, Defense April 2005)  
Shunrong Qi (Applied Economics, Defense April 2005)  
Gabriella Valdevia (Geography, Defense May 2005)  
Mark Myers (Co-Chair, Conservation Biology, Defense June 2005)

Sook-Jin Kim (Geography, Defense March 2006)  
Erik Nelson (Chair, Applied Economics, Defense February 2007)  
Ines Langrock (Applied Economics, Defense April 2007)  
Raghunath Rao (Marketing, Defense June 2007)  
Liaila Tajibaeva (Chair, Applied Economics, Defense August 2007)  
Dmitry Zhdanov (Information and Decision Sciences, Defense August 2007)  
Shefali Mehta (Applied Economics, Defense November 2007)  
Jane Rullifson (Applied Economics, Defense December 2007)  
Michinori Uwasu (Chair, Applied Economics, Defense March 2008)  
Bernard Kissui (Ecology, Evolution and Behavior, Defense March 2008)  
Yoshifumi Konishi (Co-Chair, Applied Economics, Defense May 2008)  
Bhim Gurung (Conservation Biology, Defense June 2008)  
Ping Wu (Information and Decisions Sciences, Defense June 2008)  
Kshama Harpankar (Chair, Applied Economics, Defense August 2008)  
Le Pham (Co-Chair, Applied Economics, Defense August 2008)  
Heather Sander (Co-Chair, Conservation Biology, Defense July 2009)  
Jennifer Schmitt (Chair, Conservation Biology, Defense October 2009)  
Hadas Kushnir (Co-Chair, Conservation Biology, Defense November 2009)  
Jennifer Drew (Applied Economics, Defense May 2010)  
Haochi Zheng (Co-Chair, Applied Economics, Defense May 2010)  
Kris Johnson (Chair, Conservation Biology, Defense November 2010)  
Dennis Rentsch (Chair, Conservation Biology, Defense March 2011)  
Ron Millen (Conservation Biology, Defense May 2011)

At University of Illinois:

Sahan Dissanayake (Ag. & Consumer Economics, Defense September 2011)

Ph. D. Dissertation Advising Current

At University of Minnesota:

Ishtiak Ahmed (Conservation Biology)  
David Bael (Co-Chair, Applied Economics)  
Baishali Bakshi (Chair, Natural Resource Science & Management)  
Elisa Belfiore (Economics)  
Matt Burgess (Co-Chair, Ecology, Evolution & Behavior)  
Sun Hean (Co-Chair, Conservation Biology)  
Bridget Henning (Conservation Biology)  
Justin Johnson (Applied Economics)  
Bonnie Keeler (Chair, Natural Resource Science and Management)  
Yeonsoo Kim (Applied Economics)  
Kate Knuth (Chair, Conservation Biology)  
Seung-wan Lee (Applied Economics)  
Xiaolin Li (Marketing)  
Yang Liu (Co-Chair, Applied Economics)

Moana McClellan (Plant Biology)  
Jin-Young Moon (Chair, Applied Economics)  
Nathan Muller (Conservation Biology)  
Papek Nabingey (Applied Economics)  
Christine O'Connell (Co-Chair, Ecology, Evolution & Behavior)  
Bijie Ren (Chair, Applied Economics)  
Michael Rentz (Chair, Conservation Biology)  
John Sheehan (Chair, Natural Resource Science and Management)  
David Smith (Applied Economics)

Master's Thesis Advising (Oregon State)

Anita Bambe (Economics, Defense, July 1994)  
Philippe Latriche (Ag & Resource Economics, Defense, July 1994)  
Anchaliya Sahachartkosi (M.A.I.S., Defense May 1994)  
Roger Martini (Ag & Resource Economics, Defense April 1995)  
Sog-Kyom Kim (Economics, Defense June 1995)  
Nancy Bergeron (Chair, Ag & Resource Economics, Defense July 1995)  
Leon Aliski (Chair, Ag & Resource Economics, Defense August 1995)  
Brian Garber-Yonts (Ag & Resource Economics, Defense February 1996)  
Saowanee Pakortiprapha (M.A.I.S., Defense February 1996)  
Christopher Costello (Ag & Resource Economics, Defense July 1996)  
Michael Jaspin (Chair, Ag & Resource Economics, Defense July 1996)  
Seong Hoon Cho (Ag & Resource Economics, Defense August 1996)  
Olesya Gainutdinova (Economics, Defense October 1996)  
John Faux (Ag & Resource Economics, Defense October 1996)  
Brent Mahan (Ag & Resource Economics, Defense December 1996)  
Sumeth Adulavidhaya (Chair, M.A.I.S., Defense June 1998)  
Christian Vossler (Chair, Ag & Resource Economics, Defense June 1999)  
Steve Pavich (Chair, Ag & Resource Economics, Defense August 1999)

Master's Thesis Advising (University of Minnesota)

Keiko Veasey (Public Policy, Defense May 2002)  
Barbara Peichel (Water Resources, Defense June 2002)  
Kikuo Oishi (Applied Economics, August 2002)  
Nicole Benjamin (Conservation Biology, Defense July 2004)  
Monica Missrie (Conservation Biology, Defense December 2004)  
David Bael (Advisor for Professional Paper, Public Policy, Defense June 2005)  
Jennifer Schmitt (Chair, Applied Economics, Defense July 2005)  
Matthew Grennan (Applied Economics, Defense August 2005)  
Maria Perez (Conservation Biology, Defense September 2005)  
Jaimi Johnson (Conservation Biology, Defense November 2005)  
Katherine Abbott Hawkins (Chair, Conservation Biology, Defense June 2006)  
Vincent Sseremba (Mechanical Engineering, Defense August 2006)  
Lauren Brudney (Conservation Biology, Defense March 2009)

Rachel Hopper (Chair, Conservation Biology, Defense August 2009)

Master's Thesis Advising Current (University of Minnesota)

Amy Canavan (Conservation Biology)

Chris Pinahs (Plant Biology)

Andrea Sampson (Chair, Conservation Biology)

Undergraduate Honors Thesis Advisor (Boston College)

Keith Longson (Fall 1987)

Jeff Mott (Spring 1988)

Tim Bellavia (Spring 1989)

Diane Tassia (Spring 1989)

Analuisa Sequerra (Fall 1989)

Lisa Calise (Spring 1990)

David Cohen (Spring 1991)

Paul Cichello (Spring 1992)

Christopher Burk (Spring 1993)

Kimberly Moon (Spring 1993)

## PROFESSIONAL SERVICE

Co-Editor, *Journal of Environmental Economics and Management*, 2001 - 2002.

Associate Editor, *Journal of Environmental Economics and Management*, 1996 - 2000.

Associate Editor, *Conservation Letters*, 2008 - .

Associate Editor, *Ecology and Society*, 2009 - .

Associate Editor, *Ecology Letters*, 2009 - .

Associate Editor, *International Journal of Business and Economics*, 2004 - 2005.

Guest Editor, *Frontiers of Ecology and Environment*, 2008.

Guest Editor, *Environmental and Resource Economics*, 2010.

Editorial Council, *Journal of Environmental Economics and Management*,  
1994 - 1995, 2002 - 2007.

Editorial Board, *Proceedings of the National Academy of Sciences*, 2011 - .

Editorial Board, *Review of Ecological Economics*, 2011 - .

Editorial Board, *Theoretical Ecology*, 2007 – .

Editorial Board, *Land Economics*, 2007 - .

Editorial Board, *International Journal of Business and Economics*, 2005 - .

Editorial Council, *Ecological Economics*, 2009 - .

Editorial Council, *Review of Environmental Economics and Policy*, 2006 - .

Editorial Council, *Australian Economic Papers*, 2004 – .

Faculty Editorial Advisory Board, *Minnesota Journal of Law, Science and Technology*, 2004-.

Sustainability External Advisory Committee, Dow Chemical Company, 2011 - .

Board of Directors, The Nature Conservancy, 2009 - .

Science Council, The Nature Conservancy, 2005-.

Board of Directors, Beijer Institute for Ecological Economics, Royal Swedish Academy of Sciences. 2007-.

Vice President, Association of Environmental and Resource Economists, 2006-2007.

Co-chair, Team on Mapping and Valuing Ecosystem Services, The Natural Capital Project, 2006 - .

Co-Chair, Core Project 3 – Developing the science of conservation and sustainable use of biodiversity, DIVERSITAS, 2002 - .

Science Council, Program on Ecosystem Change and Society, International Council of Scientific Unions. 2009- .

U.S. Environmental Protection Agency, Science Advisory Board. 2009- .

U.S. Environmental Protection Agency, Science Advisory Board. Committee on Valuing the Protection of Ecological Systems and Services. 2003 - 2008.

U.S. Environmental Protection Agency, Science Advisory Board. Environmental Economics Advisory Committee. 2001 - 2007.

U.S. Department of Interior, FACA Committee on Natural Resource Damage Assessment and Restoration. 2005 - 2007.

National Academies, Committee on Human Dimensions of Global Change, 2011 - .

National Research Council. Committee on Sustainability Linkages in the Federal Government. 2011 - .

National Research Council. Committee on the Effects of the Deepwater Horizon Mississippi Canyon-242 Oil Spill on Ecosystem Services in the Gulf of Mexico. 2011 - .

National Research Council. Committee on Incorporating Sustainability in the U.S. Environmental Protection Agency. 2010 - 2011.

National Research Council. Committee on the Review of the Water and Environmental Research Systems (WATERS) Network. 2007 - 2009.

National Research Council, Committee on Assessing and Valuing the Services of Aquatic and Related Terrestrial Ecosystems, 2002 - 2004.

National Research Council, Committee to Review the *Florida Keys Carrying Capacity Study*, 2001-2002.

W-133 Western Regional Research Project, Secretary 1996-1997, Vice President 1997-1998, President 1999-2000.

Ecosystem-based Management Science Advisory Board, National Center for Ecological Analysis and Synthesis, 2005-2007.

Program Committee, Second World Congress of Environmental and Resource Economists, Monterey, CA, June 2002.

Program Committee, Fourth World Congress of Environmental and Resource Economists, Montreal, Canada, June-July 2010.

Professional Activities Committee, American Agricultural Economics Association, 1998-2001.

Energy Supply Technical Working Group, Minnesota Climate Change Advisory Group 2007-2008.

Cap-and-Trade Technical Working Group, Minnesota Climate Change Advisory Group 2007-2008.

Science Advisory Panel, Lake Pepin TMDL, 2005 - .

Board Member, Experiment in Rural Cooperation, 2004.

Co-Chair of the Provost's Advisory Committee for the Institute on the Environment,

University of Minnesota, 2006.

Co-Cluster Leader of the Policy, Economics and Ecosystems Cluster of the Initiative for Renewable Energy and the Environment, University of Minnesota, 2003 - 2008.

Distinguished McKnight Professor Selection Committee, University of Minnesota, 2010-.

Associate Director, Center for Analysis of Environmental Change, Oregon State University, 1996 - 1997.

Workshop organizer, Ecosystem services and biodiversity function, National Center for Ecological Analysis and Synthesis, Santa Barbara, CA, September 2005; February 2006.

Workshop Organizer, DIVERSITAS Workshop on Sustainable Use of Biodiversity: Decision-making under Uncertainty, Montreal, CA, July 2004.

Planning Committee Chair, Learning Workshop on Game Theory, American Agricultural Economics Association Meeting, Tampa, FL, August 2, 2000.

Organizer of the Biodiversity Seminar, Oregon State University, Sept. 1995- 1998.

Planning Committee for "Emerging Ecological Policy: Winners and Losers" Conference, Corvallis, OR, September 23, 1996.

Planning Committee, Session Organizer and Session Moderator for "Ecological Risk Assessment" Conference, Corvallis, OR, November 15-16, 1994.

Referee for *American Economic Review*, *American Journal of Agricultural Economics*, *American Naturalist*, *Animal Conservation*, *B. E. Journal of Economic Analysis & Policy*, *Biodiversity and Conservation*, *Biological Conservation*, *Biomass and Bioenergy*, *BioScience*, *Canadian Journal of Economics*, *Canadian Public Policy*, *Cities and the Environment*, *Computers and Operations Research*, *Conservation Biology*, *Conservation Letters*, *Contemporary Economic Policy*, *Current Opinion in Environmental Sustainability*, *Ecological Applications*, *Ecological Economics*, *Ecological Indicators*, *Ecological Modeling*, *Ecology*, *Ecology and Society*, *Ecology Letters*, *Econometrica*, *Economic Inquiry*, *Economic Papers*, *Economic Theory*, *Ecosystems*, *Ecosystem Health*, *Energy Journal*, *Environment and Development Economics*, *Environmental and Resource Economics*, *Environmental Management*, *Environmental Modeling and Assessment*, *Environmental Monitoring and Assessment*, *Environmental Research Letters*, *Environmental Science and Policy*, *Environmental Science and Technology*, *Euphytica*, *Fisheries*, *Forest Science*, *Foundations and Trends in Microeconomics*, *Frontiers in Ecology and the Environment*, *GAIA*, *Geographical Analysis*, *Global Environmental Change*, *Growth and Change*, *Human and Ecological Risk Assessment*, *International Economic Review*,

*International Journal of Business and Economics, International Journal of Industrial Organization, International Review of Economics and Finance, Journal of Agricultural and Applied Economics, Journal of Applied Ecology, Journal of Coastal Research, Journal of Development Economics, Journal of Economic Behavior and Organization, Journal of Economic Dynamics and Control, Journal of Environmental Economics and Management, Journal of Environmental Management, Journal of Forest Economics, Journal of Industrial Ecology, Journal of Planning Literature, Journal of Political Economy, Journal of Public Economics, Journal of Public Economic Theory, Journal of Regional Science, Journal of Risk and Insurance, Journal of Soil and Water Conservation, Journal of the American Water Resources Association, Journal of Theoretical Biology, Land Economics, Landscape and Urban Planning, Landscape Ecology, the Manchester School, Minnesota Journal of Law Science and Technology, Natural Resources Modeling, Nature, Networks, Proceedings of the National Academy of Sciences, Proceedings of the Royal Society – Series B, Public Finance Review, Public Library of Science (PLoS) Biology, PLoS One, Rand Journal of Economics, Regional Environmental Change, Remote Sensing, Resource and Energy Economics, Review of Agricultural Economics, Review of Economic Studies, Review of Industrial Organization, Science, Solutions, Strategic Behavior and the Environment, Theoretical Ecology, Theoretical Population Biology, Trends in Ecology and Evolution, Urban Forestry and Urban Greening, Water Resources Research, Wetlands.*

Reviewer for Cambridge University Press, Center for Marine Conservation, Danish Department of Development, Econorthwest (Report for U.S. Fish & Wildlife Service), Environmental Protection Agency, Finland Academy, Fondo Nacional de Desarrollo Científico y Tecnológico (Chile), HarperCollins College Publishers, MacArthur Foundation, McGraw-Hill, National Oceanic and Atmospheric Administration, National Research Foundation (South Africa), National Science Foundation, Office of Management and Budget, Richard D. Irwin Inc. Textbook Publisher, Sea Grant (CT, MA, MN), Social Sciences and Humanities Research Council of Canada.

OTHER:

Co-Founder of the Boston College Recycling Program, Manager/Coordinator  
1989-1991.

Consultant, Cargill (Wetlands valuation), 2007-2008.

Consultant, Industrial Economics (Valuing ecosystem services), 2008 - .

Consultant, Von Humboldt Institute, Bogota, Colombia (Biodiversity conservation),  
1996.

Consultant, Policy Research Department, Environment and Infrastructure Division,



World Bank (Biodiversity conservation), 1995-1996.

Consultant, Charles Rivers Associates (Antitrust analysis), 1991-1992.

Member: American Agricultural Economics Association, American Association for the Advancement of Science, American Economic Association, Association of Environmental and Resource Economists, International Society for Ecological Economics, Society for Conservation Biology.