

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

Regents Professor, University of Minnesota, 2013 – present
Fesler-Lampert Professor of Ecological/Environmental Economics, University of Minnesota, 1999 – present
Faculty Fellow, Texas A&M Institute for Advanced Study, 2015 - present
James Marsh Professor-at-large, University of Vermont, 2013 - 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
Zurich Financial Services Distinguished Visiting Professor, University of California, Santa Barbara, May 2015
Research Fellow, Stellenbosch Institute for Advanced Studies, 2014.
Research Associate, Environmental & Energy Economics Program, National Bureau of Economic Research, 2008 – 2015
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
Publication of Enduring Quality, Association of Environmental and Resource Economists
Awarded 2012
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

1. Goodstein, E. and S. Polasky. 2014. *Environmental Economics* (7th edition). John Wiley & Sons.
2. 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.
3. Polasky, S. (ed.). 2002. *The Economics of Biodiversity Conservation*. International library of environmental economics and policy. Ashgate Publishing Limited.

REFEREED JOURNAL ARTICLES

1. Xu, W., Y. Xiao, J. Zhang, W. Yang, L. Zhang, V. Hull, Z. Wang, H. Zheng, J. Liu, S. Polasky, L. Jiang, Y. Xiao, E. Rao, F. Lu, X. Wang, G.C. Daily, and Z. Ouyang. Forthcoming. Strengthening protected areas for biodiversity and ecosystem services in China. *Proceedings of the National Academy of Sciences*.
2. Kennedy, C.M., P.L. Hawthorne, D.A. Miteva, L Baumgarter, K. Sochi, M. Matsumoto, J.E. Evans, S Polasky, P. Hamel, E.M. Vieira, P.F. Develey, C.H. Sekercioglu, A.D. Davidson, E.M. Uhlhorn, and J. Kiesecker. 2016. Optimizing land use decision-making to sustain Brazilian agricultural profits, biodiversity, and ecosystem services. *Biological Conservation* 204: 221-230.
3. Nyborg, K. J.M. Andreis, A. Dannenberg, T. Lindahl, C. Schill, M. Schlüter, W.N. Adger, K.J. Arrow, S. Barrett, S. Carpenter, F.S. Chapin III, A.-S. Crépin, G. Daily, P. Ehrlich, C. Folke, W. Jager, N. Kautsky, S.A. Levin, O.J. Madsen, S. Polasky, M.

- Scheffer, B. Walker, E.U. Weber, J. Wilen, A. Xepapadeas, A.t de Zeeuw. 2016. Social norms as solutions: Policies may influence large-scale behavioral tipping. *Science* 354: 42-43.
4. Nelson, E.J., M.R. Helmus, J. Cavender-Bares, S. Polasky, J.R. Lasky, A.E. Zanne, W.D. Pearse, N.J.B. Kraft, D.A. Miteva, W.F. Fagan. 2016. Commercial plant production and consumption still follow the latitudinal gradient in species diversity despite economic globalization. *PLoS One* 11 (10): e0163002.
 5. Keeler, B.L., J.D. Gourevitch, S. Polasky, F. Isbell, C.W. Tessum, J.D. Hill, and J.D. Marshall. 2016. The social cost of nitrogen: A spatially-explicit framework for valuing the nitrogen externality. *Scientific Advances* 2(10): e1600219.
 6. Johnson, J.A., C.F. Runge, B. Senauer, and S. Polasky. 2016. Global food demand and carbon-preserving cropland expansion under varying levels of intensification. *Land Economics* 92 (4): 579–592.
 7. Hill, J., L. Tajibaeva, and S. Polasky. 2016. Climate consequences of low-carbon fuels: The United States Renewable Fuel Standard. *Energy Policy* 97: 351-353.
 8. Liu, J., K. Ma, P. Ciais, S. Polasky. 2016. Reducing human nitrogen use for production. *Scientific Reports* 6:30104.
 9. Watson, K., T. Ricketts, G. Galford, S. Polasky, and J. O’Neil-Dunne. 2016. Economic valuation of flood mitigation services: The value of Otter Creek wetlands and floodplains to Middlebury, VT. *Ecological Economics* 130: 16-24.
 10. Kennedy, C.M., D.A. Miteva, L. Baumgarten, P.L. Hawthorne, K. Sochi, S. Polasky, J.R. Oakleaf, E.M. Uhlhorn, and J. Kiesecker. 2016. Bigger is better: Improved nature conservation and economic returns from landscape-level mitigation. *Science Advances* 7(2): e1501021.
 11. Ouyang, Z., H. Zheng, Y. Xiao, S. Polasky, J. Liu, W. Xu, Q. Wang , L. Zhang, Y. Xiao, E. Rao, L. Jiang, F. Lu, X. Wang, G. Yang, S. Gong, B. Wu, Y. Zeng, W. Yang, G.C. Daily. 2016. Improvements in ecosystem services from investments in natural capital. *Science* 352: 1455-1459.
 12. Albers, H.J., G. M. Busby, B. Hamaide, A.W. Ando, and S. Polasky. 2016. Spatially-correlated risk in nature reserve site selection. *PLoS One* 11(1): e0146023.
 13. Chaplin-Kramer, R., M. Jonell, A. Guerry, E.F. Lambin, A.J. Morgan, D. Pennington, N. Smith, J.A. Franch, S. Polasky. 2015. Ecosystem service information to benefit sustainability standards for commodity supply chains. *Annals of the New York Academy of Sciences* 1355: 77-97.

14. Polasky, S., A. Guerry., J. Lubchenco, and M. Ruckelshaus. 2015. Response to Phelps et al.: Liability rules provide incentives to protect natural capital. *Proceedings of the National Academy of Sciences* 112(39): E5380.
15. Selomane, O., B. Reyers, R. Biggs, H. Tallis, and S. Polasky. 2015. Towards integrated social–ecological sustainability indicators: Exploring the contribution and gaps in existing global data. *Ecological Economics* 118: 140-146.
16. Karp, D.S., H. Tallis, R. Sachse, B. Halpern, K. Thonicke, W. Cramer, H. Mooney, S. Polasky, B. Tietjen, K. Waha, A. Walz, and S. Wolny. 2015. National indicators for observing ecosystem service. *Global Environmental Change* 35: 12-21.
17. King, E., J. Cavendar-Bares, P. Balvanera, T.H. Mwumpamba, and S. Polasky. 2015. Tradeoffs in ecosystem services and varying stakeholder preferences: Evaluating conflicts, obstacles, and opportunities. *Ecology and Society* 20 (3): 25.
18. van den Bergh, J., C. Folke, S. Polasky, M. Scheffer, and W. Steffen. 2015. What if solar energy becomes really cheap? A thought experiment and guidelines for analyzing environmental problem shifting. *Current Opinion in Environmental Sustainability* 14: 170-179.
19. Polasky, S., B. Bryant, P. Hawthorne, J. Johnson, B. Keeler, and D. Pennington. 2015. Inclusive wealth as a metric of sustainable development. *Annual Review of Environment and Resources* 40: 6.1–6.22.
20. Guerry, A., S. Polasky, J. Lubchenco, R. Chaplin-Kramer, G.C. Daily, R. Griffin, M.H. Ruckelshaus, I.J. Bateman, A. Duraiappah, T. Elmqvist, M.W. Feldman, C. Folke, J. Hoekstra, P. Kareiva, B. Keeler, S. Li, E. McKenzie, Z. Ouyang, B. Reyers, T. Ricketts, J. Rockström, H. Tallis, and B. Vira. 2015. Natural capital informing decisions: from promise to practice *Proceedings of the National Academy of Sciences* 112: 7348-7355.
21. Polasky, S., H. Tallis, and B. Reyers. 2015. Setting the bar: Standards for ecosystem services. *Proceedings of the National Academy of Sciences* 112: 7356-7361.
22. Li, C., H. Zheng, S. Li, X. Chen, J. Li, W. Zeng, Y. Liang, S. Polasky, M.W. Feldman, M. Ruckelshaus, Z. Ouyang, and G.C. Daily. 2015. Impacts of conservation and human development policy across stakeholders and scales. *Proceedings of the National Academy of Sciences* 112: 7396-7401.
23. Ruckelshaus, M., E. McKenzie, H.M. Tallis, A.D. Guerry, G.C. Daily, P.M. Kareiva, S. Polasky, T. Ricketts, N. Bhagabati, S. Wood, and J. Bernhardt. 2015. Notes from the field: Lessons learned from using ecosystem services to inform real-world decisions. *Ecological Economics* 115: 11-21.
24. Naeem, S., J.C. Ingram, A. Varga, T. Agardy, P. Barten, G. Bennett, E. Bloomgarden, L. Bremer, P. Burkill, M. Cattau, C. Ching, M. Colby, D.C. Cook, R. Costanza, F.

- DeClerck, C. Freund, T. Gartner, R. Goldman-Benner, J. Gunderson, D. Jarrett, A.P. Kinzig, A. Kiss, A. Koontz, P. Kumar, J.R Laskey, M. Masozera, D. Meyers, F. Milano, L. Naughton-Treves, E. Nichols, L. Olander, P. Olmsted, E. Perge, C. Perrings, S. Polasky, J. Potent, C. Prager, F. Quétier, K. Redford, K. Saterson, G. Thoumi, M.T. Vargas, S. Vickerman, W. Weisser, D. Wilkie, and S. Wunder. 2015. Get the science right when paying for nature's services: Few projects adequately address design and evaluation. *Science* 347: 1206-1207.
25. Cavendar-Bares, J., S. Polasky, E. King, and P. Balvanera. 2015. A sustainability framework for assessing trade-offs in ecosystem services. *Ecology and Society* 20(1): 17.
26. Cavendar-Bares, J., E. King, P. Balvanera, and S. Polasky. 2015. Ecosystem service trade-offs across global contexts and scales. *Ecology and Society* 20(1): 22.
27. Isbell, F., D. Tilman, S. Polasky, and M. Loreau. 2015. The biodiversity-dependent ecosystem service debt. *Ecology Letters* 18(2): 119-134.
28. Keeler, B., S.A. Wood, S. Polasky, C. Kling, C.T. Filstrup, and J.A. Downing. 2015. Recreational demand for clean water: Evidence from geotagged photographs by visitors to lakes. *Frontiers in Ecology and the Environment* 13: 76-81.
29. Troell, M., R. Naylor, M. Metian, M. Beveridge, P. Tyedmers, C. Folke, K. Arrow, S. Barrett, A-S. Crépin, P. Ehrlich, Å. Gren, N. Kautsky, S. Levin, K. Nyborg, H. Österblom, S. Polasky, M. Scheffer, B. Walker, T. Xepapadeas, and A. de Zeeuw. 2014. Aquaculture and the resilience of global food systems. *Proceedings of the National Academy of Sciences* 111: 13257-13263.
30. Bennett, E., S.R. Carpenter, L.J. Gordon, N. Ramankutty, P. Balvanera, B. Campbell, W. Cramer, J. Foley, C. Folke, L. Karlberg, J. Liu, H. Lotze-Campen, N.D. Mueller, G.D. Peterson, S. Polasky, J. Rockström, R.J. Scholes, and M. Spierenburg. 2014. Toward a more resilient agriculture. *Solutions* 5(5): 65-75.
31. Johnson, J., C.F. Runge, B. Senauer, J. Foley, and S. Polasky. 2014. Global agriculture and carbon tradeoffs. *Proceedings of the National Academy of Sciences* 111: 12342-12327.
32. Keeler, B.L. and S. Polasky. 2014. Land-use change and costs to rural households: A case study in groundwater nitrate contamination. *Environmental Research Letters* 9(7): 074002
33. Gradel, T.E., D. Swackhamer, R. Anex., W.F. Carroll, Jr., G.T. Daigger, P. Ferrao, H. Frumkin, S. Katzen, A. Palmisano, S. Polasky, L. Scarlett, R. Stephens, and L Zeise. 2014. Sustainability for the nation: Resource connections and governance linkages. *Environmental Science and Technology* 48(13): 7197-7199.

34. Barrett, S., T.M. Lenton, A. Millner, A. Tavoni, S. Carpenter, J.M. Anderies, F.S. Chapin III, A.-S. Crépin, G. Daily, P. Ehrlich, C. Folke, V. Galaz, T. Hughes, N. Kautsky, E. Lambin, R. Naylor, K. Nyborg, S. Polasky, M. Scheffer, J. Wilen, A. Xepapadeas, and A. de Zeeuw. 2014. Climate engineering reconsidered. *Nature Climate Change* 4: 527-529.
35. Mueller, N., P. West, J. Gerber, G. MacDonald, S. Polasky, J. Foley. 2014. A tradeoff frontier for global nitrogen use and cereal production. *Environmental Research Letters* 9(5): 054002.
36. Lawler, J.J., D.J. Lewis, E. Nelson, A.J. Plantinga, S. Polasky, J.C. Withey, D.P. Helmers, S. Martinuzzi, D. Pennington, V.C. Radeloff. 2014. Projected land-use change impacts on ecosystem services in the U.S. *Proceedings of the National Academy of Sciences* 111(20): 7492-7497.
37. Polasky, S., D. Lewis, A. Plantinga, and E. Nelson. 2014. Implementing the optimal provision of ecosystem services. *Proceedings of the National Academy of Sciences* 111 (17): 6248-6253.
38. Ren, B. and S. Polasky. 2014. The optimal management of renewable resources under the risk of potential regime shift. *Journal of Economic Dynamics and Control* 40: 195-212.
39. Zheng, H., B. Robinson, Y.-C. Liang, S. Polasky, D.-C. Ma, F.-C. Wang, M. Ruckelshaus, Z.-Y. Ouyang, and G.C. Daily. 2013. The benefits, costs, and livelihood implications of a regional PES (payment for ecosystem service) program. *Proceedings of the National Academy of Sciences* 110(41): 16681-16686.
40. Burgess, M., S. Polasky, and D. Tilman. 2013. Predicting overfishing and extinction threats in multispecies fisheries. *Proceedings of the National Academy of Sciences* 110(40): 15943-15948.
41. Banerjee, S., S. Secchi, J. Fargione, S. Polasky, and S. Kraft. 2013. How to sell ecosystem services: a guide for designing new markets. *Frontiers in Ecology and Environment* 11: 297-304.
42. Isbell, F., P.B. Reich, D. Tilman, S. Hobbie, S. Polasky, and S. Binder. 2013. Nutrient enrichment, biodiversity loss, and consequent declines in ecosystem productivity. *Proceedings of the National Academy of Sciences* 110(29): 11911-11916.
43. Kovacs, K., S. Polasky, E. Nelson, B. Keeler, D. Pennington, A. Plantinga, and S. Taff. 2013. Evaluating the return in ecosystem services from investment in public land acquisitions. *PLoS One* 8(6): e62202.
44. Packer, C., A. Loveridge, S. Canney, T. Caro, S.T. Garnett, M. Pfeifer, K.K. Zander, A. Swanson, D. MacNulty, G. Balme, H. Bauer, C.M. Begg, K.S. Begg, S. Bhalla, C. Bissett, T. Bodasing, H. Brink, A. Burger, A.C. Burton, B. Clegg, S. Dell, A. Delsink, T. Dickerson, S.M. Dloniak, D. Druce, L. Frank, P. Funston, N. Gichohi, R. Groom, C.

- Hanekom, B. Heath, L. Hunter, H.H. DeLongh, C.J. Joubert, S.M. Kasiki, B. Kissui, W. Knockner, B. Leathem, P.A. Lindsey, S.D. Macleannan, J.W. McNutt, S.M. Miller, S. Naylor, P. Nel, C. Ng'weno, K. Nicholls, J.O. Ogutu, E. Okot-Omoya, B.D. Patterson, A. Plumptre, J. Salerno, K. Skinner, R. Slotow, E.A. Sogbohossou, K.J. Stratford, C. Winterbach, H. Winterbach, and S. Polasky. 2013. Conserving large carnivores: Dollars and fence. *Ecology Letters* 16(5): 635-641.
45. Reyers, B., R. Biggs, G.S. Cummings, T. Elmqvist, A.P. Hejnowicz, and S. Polasky. 2013. Getting the measure of ecosystem services: a social-ecological approach. *Frontiers in Ecology and Environment* 11: 268-273.
46. Isbell, F., D. Tilman, S. Polasky, S. Binder, and P. Hawthorne. 2013. Low biodiversity stable state persists two decades after cessation of nutrient enrichment. *Ecology Letters* 16(4): 454-460.
47. Daily, G.C., Z.-Y. Ouyang, H. Zheng, S. Li, M. Feldman, P. Kareiva, S. Polasky, and M. Ruckelshaus. 2013. Protection of natural capital and human well-being: China's innovation and influence. *Shengtai Xuebao/Acta Ecologica Sinica* 33(3): 669-676.
48. Daily, G.C., Z.-Y. Ouyang, H. Zheng, S. Li, W. Yukuan, M. Feldman, P. Kareiva, S. Polasky, and M. Ruckelshaus. 2013. Securing natural capital and human well-being: Innovation and impact in China. *Shengtai Xuebao/Acta Ecologica Sinica* 33(3): 677-685.
49. Huang, Q.Q., Y.Liu, S. Rozelle, S. Polasky, and J. Wang. 2013. The effects of well management and the nature of the aquifer on groundwater resources. *American Journal of Agricultural Economics* 95(1): 94-116.
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51. Runge, C.F., J. Sheehan, B. Senauer, J. Foley, J. Gerber, J.A. Johnson, S. Polasky, and C.P. Runge. 2012. Assessing the comparative productivity advantage of bioenergy feedstocks at different latitudes. *Environmental Research Letters* 7(4): 045906.
52. Reyers, B., S. Polasky, H. Tallis, H. Mooney, and A. Larigauderie. 2012. The common ground of biodiversity and ecosystem services demonstrated: A response to Faith. *BioScience* 62(9): 785-786.
53. Crepin, A.-S., R. Biggs, S. Polasky, M. Troell, and A. de Zeeuw. 2012. Regime shifts and management. *Ecological Economics* 84: 15-22.
54. Carpenter, S., K. Arrow, S. Barrett, R. Biggs, W. Brock, A.-S. Crepin, G. Engstrom, C. Folke, T. Hughes, N. Kautsky, C.-Z. Li, G. McCarney, K. Meng, K.-G. Maler, S.

- Polasky, M. Scheffer, J. Shogren, T. Sterner, S. Taylor, J. Vincent, B. Walker, A. Xepapadeas, and A. de Zeeuw. 2012. General resilience to cope with extreme events. *Sustainability* 4(12): 3248-3259.
55. Keeler, B., S. Polasky, K. A. Brauman, K. A. Johnson, J. C. Finlay, A. O'Neill, K. Kovacs, and B. Dalzell. 2012. Linking water quality and well-being for improved assessment and valuation of ecosystem services. *Proceedings of the National Academy of Sciences* 109: 18619-18624.
56. Kim, C.-K., J.E. Toft, M. Papenfus, G. Verutes, A.D. Guerry, M.H. Ruckelshaus, K.K. Arkema, G. Guannel, S.A. Wood, J.R. Bernhardt, H. Tallis, M.L. Plummer, B.S. Halpern, M.L. Pinsky, M.W. Beck, F. Chan, K. Chan, P.S. Levin, and S. Polasky. 2012. Catching the right wave: Evaluating wave energy resources and potential compatibility with existing marine and coastal uses. *PLoS One* 7(11): e47598.
57. Tallis, H. H. Mooney, S. Andelman, P. Balvanera, W. Cramer, D. Karp, S. Polasky, B. Reyers, T. Ricketts, S. Running, K. Thonicke, B. Tietjen, and A. Walz. 2012. A global system for monitoring ecosystem service change. *BioScience* 62(11): 977-986.
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60. Polasky, S. K. Johnson, B. Keeler, K. Kovacs, E. Nelson, D. Pennington, A. Plantinga, and J. Withey. 2012. Are investments to promote biodiversity conservation and ecosystem services aligned? *Oxford Review of Economic Policy* 28(1): 139-163.
61. Schwartz, M., J. Hellmann, J. McLachlan, D. Sax, J. Borevitz, J. Brennan, A. Camacho, G. Ceballos, J.Rappaport Clark, H. Doremus, R. Early, J. Etterson, D. Fielder, J. Gill, P. Gonzalez, N. Green, L. Hannah, D. Jamieson, D. Javeline, B. Minter, J. Odenbaugh, S. Polasky, D. Richardson, and T. Root. 2012. Managed relocation: Integrating the scientific, regulatory and ethical challenges. *BioScience* 62(8): 732-743.
62. Goldstein, J. G. Caldarone, T.K. Duarte, D. Ennaanay, N. Hannahs, G. Mendoza, S. Polasky, S. Wolny, and G.C. Daily. 2012. Integrating ecosystem service tradeoffs into land-use decisions. *Proceedings of the National Academy of Sciences* 109(19): 7565-7570.

63. Johnson, K.A., S. Polasky, E. Nelson, and D. Pennington. 2012. Uncertainty in ecosystem services valuation and implications for assessing land use tradeoffs: An agricultural case study in the Minnesota River Basin. *Ecological Economics* 79: 71-79.
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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 - 2012.

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

Associate Editor, *Ecology Letters*, 2009 - 2012.

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

Associate Editor, *Journal of the Association of Environmental and Resource Economists*, 2014-2015.

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

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

Editorial Board, *Proceedings of the National Academy of Sciences*, 2010 – .

Editorial Board, *Annual Reviews of Environment and Resources*, 2011 – .

Editorial Board, *Environmental Management*, 2013.

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

Editorial Board, *Land Economics*, 2007 - .

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

Editorial Board, *Theoretical Ecology*, 2007 – .

Editorial Council, *Ecological Economics*, 2009 - .

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

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- 2012.

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

Co-founder, and member of the Governing Advisory Board, The Natural Capital Project, 2006 - .

Co-Chair, Core Project 3 – Developing the science of conservation and sustainable use of biodiversity, DIVERSITAS, 2002 -2012.

Science Council, Program on Ecosystem Change and Society, International Council of Scientific Unions. 2009-2015.

Policy and Technical Expert Committee, Wealth Accounting for the Value of Ecosystem Services, World Bank. 2012 -

U.S. Environmental Protection Agency, Science Advisory Board. 2009-2015.

U.S. Environmental Protection Agency, U.S. Environmental Protection Agency Clean Air Scientific Advisory Committee Particulate Matter Review Panel. 2015-2016.

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 Oceanic and Atmospheric Administration, Science Advisory Board, 2013 - .

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

National Academies, Board on Environmental Change and Society, 2012 - .

National Academies, Water Science and Technology Board, 2015 -

National Research Council. Committee on Preparing for Nine Billion on the Planet: Workshop on Sustainability Science, 2013.

National Research Council. Committee on Sustainability Linkages in the Federal Government. 2011 - 2013.

National Research Council. Committee on the U.S. Army Corps of Engineers Water

Resources Science, Engineering, and Planning – Coastal Risk Reduction. 2013 – 2014.

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 - 2013.

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 - 2008.

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, 2010-2012.

Regents Professor Selection Committee, University of Minnesota, 2015 - .
MN Drive Advisory Board, University of Minnesota, 2013 -

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.