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RESEARCH AND TEACHING FOCUS: Environmental & Natural Resource Economics and Policy

PUBLICATIONS:

Articles in Journals

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- The SO₂ Allowance Trading System and the Clean Air Act Amendments of 1990: Reflections on Twenty Years of Policy Innovation.* Cambridge: Harvard Environmental Economics Program, January 2012. With G. Chan, R. Stowe, and R. Sweeney. [F-29]
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- “Three Key Elements of Post-2012 International Climate Policy Architecture.” *Discussion Paper* 2010-37, Harvard Project on International Climate Agreements, Belfer Center for Science and International Affairs, Harvard Kennedy School, June 2010. With S.M. Olmstead. [F-27]
- “Options for the Institutional Venue for International Climate Negotiations.” *Issue Brief*, Harvard Project on International Climate Agreements, Belfer Center for Science and International Affairs, Harvard Kennedy School, May 2010. [F-26]
- “A Portfolio of Domestic Commitments: Implementing Common but Differentiated Responsibilities.” *Viewpoint*, Harvard Project on International Climate Agreements, Belfer Center for Science and International Affairs, Harvard Kennedy School, October 19, 2009. [F-25]
- “Linkage of Tradable Permit Systems in International Climate Policy Architecture.” The Harvard Project on International Climate Agreements, Discussion Paper 08-07, Cambridge, Massachusetts, September, 2008. With J. Jaffe. [F-24]
- Linking a U.S. Cap-and-Trade System for Greenhouse Gas Emissions: Opportunities, Implications, and Challenges.* Washington, D.C.: AEI-Brookings Joint Center for Regulatory Studies, January 2008. With J. Jaffe. [F-23]
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- A U.S. Cap-and-Trade System to Address Global Climate Change.* The Hamilton Project, Discussion Paper 2007-13. Washington, D.C.: The Brookings Institution, October 2007. [F-21]
- Managing Water Demand — Price vs. Non-Price Conservation Programs.* Pioneer Institute White Paper No. 39. Boston, Massachusetts: Pioneer Institute for Public Policy Research, July 2007. [F-20]
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- “Benefit-Cost Analysis in Environmental, Health, and Safety Regulation.” Washington, D.C.: American Enterprise Institute, The Annapolis Center, and Resources for the Future, 1996. With K. Arrow, M. Cropper, G. Eads, R. Hahn, L. Lave, R. Noll, P. Portney, M. Russell, R. Schmalensee, and K. Smith. [F-11]
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“What Baseball Can Teach Policymakers.” April 20, 2009.

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“The Myths of Market Prices and Efficiency.” March 3, 2009.

“The Myth of Simple Market Solutions.” February 23, 2009.

“The Myth of the Universal Market.” February 17, 2009.

“Opportunity for a Defining Moment.” February 6, 2009.

PROFESSIONAL EXPERIENCE:

A. J. Meyer Professor of Energy & Economic Development, John F. Kennedy School of Government, Harvard University, 2017- present (Albert Pratt Professor of Business and Government, 1998-2017; Professor of Public Policy, 1997-98; Associate Professor, 1992-1997; Assistant Professor, 1988 - 1992).

Chairman, Environment and Natural Resources Faculty Group, 1998 - present.

Director, Harvard Environmental Economics Program, 2000 - present.

Director of Graduate Studies for Doctoral Program in Public Policy and Doctoral Program in Political Economy and Government, Chairman of the Kennedy School Ph.D. Committee, and Chairman of the Graduate School of Arts and Sciences (GSAS) Standing Committee on Higher Degrees in Public Policy, 2006 - present.

Co-Chair, Harvard Business School-Kennedy School Joint Degree Programs, 2007 - present.

Director, Harvard Project on Climate Agreements, 2005 – present.

University Fellow, Resources for the Future, Washington, D.C., 1989 - present.

Research Associate, National Bureau of Economic Research, 2007 - present.

Co-Editor, *Review of Environmental Economics and Policy* (Oxford University Press), 2009 – present (Editor, 2006-2009).

Member, Board of Directors, Resources for the Future, Washington, D.C., 2003 – 2012, 2014 – present.

Member, Scientific Advisory Board, Fondazione Eni Enrico Mattei (FEEM), Milan, 2009 - 2013.

Editor, *Journal of Wine Economics*, and Vice President, American Association of Wine Economists, 2006 - present.

Member, Editorial Council, *Environmental Economics and Policy Studies*, 2010 - present.

Member, Editorial Board, *Climate Change Economics*, 2009 – present.

Member, Advisory Board, Strengthening the U.S. Energy Innovation System, MIT, Cambridge, Massachusetts, 2008-2010.

Chair, Environmental Economics Advisory Committee, Science Advisory Board, U.S. Environmental Protection Agency, 1997-2002 (Member, 1992 - 2003).

Member, Executive Board, Science Advisory Board, U.S. Environmental Protection Agency, 1997-2002; 2004-2007.

Chairman, Executive Office of Environmental Affairs Scientific Advisory Board, Commonwealth of Massachusetts, 2005 - 2007.

Faculty Chair, Environment and Natural Resources Program, John F. Kennedy School of Government, Harvard University, 1997-2002.

Member, Board of Directors, Association of Environmental and Resource Economists, January 1996 - December 1998.

Member, Executive Committee, Harvard University Center for the Environment (formerly Harvard University Committee on the Environment), 1999-2004; Member, University Working Group on Environment, Harvard University, 1990 - 1992.

Member, Board of Directors, Robert and Renée Belfer Center for Science and International Affairs, John F. Kennedy School of Government, Harvard University, 1997-present.

Member, the Board of Academic Advisors, AEI-Brookings Joint Center for Regulatory Studies, August 1998-present.

Member, Editorial Board, B.E. Journals of Economic Analysis & Policy, 2001-present.

Member, Editorial Board, *Land Economics*, 2001 - 2006.

Member, Board of Editors, *Resource and Energy Economics*, 1998 - 2005.

Member, Editorial Council, *The Journal of Environmental Economics and Management*, 1996 - 2004.

Contributing Editor, *Environment*, 1997 - 2007.

Member, Advisory Board, *Environmental Economics Abstracts*, 1996 - present.

Member, Editorial Board, *Economic Issues*, 1996 - present.

Member, Advisory Board, *Environmental Law and Policy Abstracts*, 1996 - present.

Member, Subcommittee on Energy, Clean Air, and Climate Change, Clean Air Act Advisory Committee, U.S. Environmental Protection Agency, 1997 - present.

Lead Author, Working Group III, Intergovernmental Panel on Climate Change (IPCC), United Nations Environment Program and World Meteorological Organization, 1993 - present.

Member, Reducing Risk Project Steering Committee, Science Advisory Board, U.S. Environmental Protection Agency, 1996 - present.

Member, External Review Panel, Department of Agricultural and Resource Economics, University of California, Berkeley, October 1995.

Member, Workshop Committee, Association of Environmental and Resource Economists (AERE) 1996-1999 (chair in third year of appointment).

Member, Eco-Efficiency Task Force, President's Council on Sustainable Development, 1994 - 1995.

Member, Energy Modeling Forum Working Group on Energy Conservation (EMF 13), Stanford University, 1992 - 1994.

Member, Advisory Panel on Emissions Trading, Sierra Club, Washington, D.C., 1994 - 1995.

Affiliated Faculty Member, Harvard Center for Risk Analysis, Harvard School of Public Health, Boston, Massachusetts, 1991 - present.

Academic Advisor for Environmental Journalism Program, Foundation for American Communications, 1992 - 1998 (Lecturer, 1989 - present).

Director, Project 88 and Project 88/Round II, co-sponsored by U.S. Senators Timothy Wirth (D-Colorado) and John Heinz (R-Pennsylvania), 1988 - 1992.

Principal, Harvard-Japan Project on Energy and the Environment, 1992 - 1995.

Member, Governor's Task Force on Energy and Environmental Policy, Massachusetts, 1992 - 1994.

Consultant to foundations, private industry, non-governmental organizations, state & local governments, Federal government departments and agencies, and international bodies on environmental economics.

Referee, *The American Economic Review*, *The Quarterly Journal of Economics*, *The Economic Journal*, *The RAND Journal of Economics*, *The Review of Economics and Statistics*, *The Journal of Environmental Economics and Management*, *Land Economics*, *The Energy Journal*, *Energy and Resource Economics*, *Energy Policy*, *The Journal of Policy Analysis and Management*, *Economic Inquiry*, *Science*, *Policy Studies Journal*, *The Journal of the Air and Waste Management Association*, and Harvard University Press.

Member, Risk Reduction Committee, Science Advisory Board, U.S. Environmental Protection Agency, Washington, D.C., 1989 - 1990.

Member, Working Group on Human Interactions with Global Change, National Research Council, Washington, D.C., 1989 - 1990.

Staff Economist, Environmental Defense Fund, Berkeley, California, 1982 - 1983.

Consultant, Public Interest Economics Foundation, Inc., Berkeley, California, September 1980 - June 1982.

Economist, Giannini Foundation of Agricultural Economics, University of California, Berkeley, 1979 - 1981.

Research Specialist, Department of Agricultural Economics, Cornell University, 1977 - 1979.

Agricultural Representative, Peace Corps Recruitment, Champaign, Illinois, September 1975 - August 1976.

Peace Corps Volunteer, Ministry of Agriculture and Natural Resources, Sierra Leone, West Africa, 1969 - 1973.

AWARDS, HONORS, AND GRANTS:

Publication of Enduring Quality Award, Association of Environmental and Resource Economists, June 2017, for "The Induced Innovation Hypothesis and Energy-Saving Technological Change," by Richard G. Newell, Adam B. Jaffe, and Robert N. Stavins, *Quarterly Journal of Economics*, Vol. 114, No. 3 (1999), pp. 941-975.

Edmund G. "Pat" Brown Award, California Council for Environmental and Economic Balance, 2016.

Fellow, Association of Environmental and Resource Economists, 2009.

Principal Investigator, grant from the Doris Duke Charitable Foundation, "The Harvard Project on International Climate Agreements," July 2007 - June 2009 (\$750,000)

Principal Investigator, grant from the U.S. Environmental Protection Agency, "Regulating Pollution Through Information Disclosure: Facility Response to the Toxics Release Inventory," July 2002 - June 2005 (\$395,459)

Principal Investigator, grant from the National Science Foundation, "Climate Change Response Strategies for Water Resources: Price and Non-Price Demand Management," March 2001 - February 2003 (\$238,000)

Principal Investigator, grant from AVINA Foundation, "Land Use and Climate Change," September 2000 - January 2003 (\$125,000)

Principal Investigator, grant from the U.S. Department of Energy, "The Effects of Government Policies on the Invention, Innovation, and Diffusion of Energy-Efficient Technologies," October 1, 1998 - December 14, 2001 (\$519,000)

Principal Investigator, grant from the U.S. Department of Energy, "Land-Use Change and Carbon Sinks: Econometric Estimation of the Carbon Sequestration Supply Function," December 15, 1998 - December 14, 2001 (\$200,000)

Principal Investigator, grant from the U.S. Department of Energy, "Energy-Efficiency Innovation and the Economic and Regulatory Environment," September 1995 - November 1998 (\$461,000)

Principal Investigator, grant from the U.S. Environmental Protection Agency, "Estimating a CO2 Sequestration Supply Function," June 1993 - August 1994 (\$130,000).

Principal Investigator, grant from the W. Alton Jones Foundation, "Environmental Policy Reform in the First 100 Days of the New Administration," February 1993 - May 1993 (\$40,000).

Principal Investigator, grant from the Office of Research and Development, U.S. Environmental Protection Agency, "Evaluating the Relative Effectiveness of Economic Incentives and Direct Regulation for Environmental Protection: Impacts on the Diffusion of Technology," September 1991 - August 1993 (\$186,000).

Principal Investigator, grant from the W. Alton Jones Foundation, "Project 88 — Round II, Incentives for Action: Implementing Market-Based Environmental Policies," November 1990 - August 1992 (\$75,000).

Principal Investigator, grant from the Pew Charitable Trusts, "Project 88 — Round II, Incentives for Action: Implementing Market-Based Environmental Policies," January 1991 - August 1992 (\$75,000).

Principal Investigator, grant from the Surdna Foundation, "Project 88 — Round II, Incentives for Action: Implementing Market-Based Environmental Policies," March 1991 - August 1992 (\$50,000).

Principal Investigator, grant from the U.S. Environmental Protection Agency, "Project 88 — Round II, Incentives for Action: Implementing Market-Based Environmental Policies," March 1991 - August 1992 (\$50,000).

Principal Investigator, grant from Carnegie Corporation of New York, "Economic Incentives for Environmental Protection: A Public Policy Sequel to Project 88," June 1990 - September 1991 (\$97,600).

Principal Investigator, grant from Resources for the Future, "Wetland Losses and Willingness-to-Pay for Fishing Opportunities," 1990-1991 (\$20,905).

Project Director, grant from the Richard King Mellon Foundation, Pittsburgh, Pennsylvania, "Harvard-Project 88 Conference," 1989 (\$35,000).

Project Director, grants from the Carnegie Corporation of New York, the Richard King Mellon Foundation, the Rockefeller Family and Associates, and the Keystone Center/Madison Associates, "Project 88 - Harnessing Market Forces to Protect the Environment: Initiatives for the New President," 1988-89 (\$50,000).

Principal Investigator, grant from the Fish and Wildlife Service, U.S. Department of the Interior, Washington, D.C., "Welfare Analysis of Alternative Uses of Forested Wetlands," 1987-88 (\$10,000).

Research Grant from the National Center for Food and Agricultural Policy, Resources for the Future, Washington, D.C., 1986-87 (\$15,000).

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