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CURRICULUM VITÆ

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Experience

- 2010–present Visiting Scholar, [Regulatory Studies Center](#), George Washington Univ.
- 2013–present Founder, Tamer Trading Technologies, efficient financial market design.
- 2009–present President, Buckland Mill Associates, Economic Consultants.
- 2005–2009 Associate Administrator for [Policy, Economics, and Innovation](#), U.S. Environmental Protection Agency, serving as Economic Adviser and chief policy adviser to the EPA Administrator.
- 2001–2005 Senior Research Fellow in Regulatory Studies, [The Mercatus Center](#) at George Mason University.
- 1998–2001 Director of Science and Technology Studies, [Manufacturers Alliance for Productivity and Innovation/MAPI](#).
- 1996–1998 Deputy Secretary of [Natural Resources](#), Commonwealth of Virginia, under Governors Allen and Gilmore.
- 1989–1996 President, Buckland Mill Associates, Economic Consultants.
- 1987–1989 Managing Editor of *Regulation* Magazine, and Resident Fellow in Economic Studies, [The American Enterprise Institute](#).
- 1981–1987 Sr. Economist & Deputy Chief, Natural Resources Branch, Office of Information & Regulatory Affairs, U.S. Office of Management & Budget.
- 1979–1981 Senior Economist and acting Deputy Assistant Director for Government Programs and Regulations, U.S. Council on Wage & Price Stability. Also served as energy advisor to Council Chairman Alfred Kahn.
- 1978–1979 Special Assistant to the Deputy Assistant Secretary for Planning and Evaluation, U.S. Department of Energy.
- 1977–1978 Environmental Scientist and Operations Research Analyst, U.S. Environmental Protection Agency.
- 1976–1978 Consultant advising the Harvard Corporation regarding the construction of the Medical Area Total Energy Plant, a major cogeneration facility serving Harvard University and Boston area hospitals.

- Other Affiliations**
- 2003–present Co-Founder and Board Member, [The Buckland Preservation Society](#), a nonprofit organization undertaking a private effort, with the support of the National Park Service, to preserve the eighteenth-century mill village of Buckland, Virginia, and the surrounding ~2,000 acre Civil War battlefield.
- 2012–present Executive Committee Member, Administrative Law Practice Group, [The Federalist Society](#).
- 2011–present Member, Research Team, [The Galactosemia Foundation](#).
- 2007–2008 Member, National Advisory Board, [Manufacturing Extension Partnership](#), U.S. Department of Commerce.
- 2002–2006 Member of the Academic Advisory Council, [Economic Journal Watch](#).
- 2004–2005 Member, Committee on Changes in EPA’s New Source Review Programs, National Research Council, [National Academies of Sciences](#).
- 2004–2005 Member, Investment Working Group, International Trade Advisory System, U.S. International Trade Administration.
- 2002–2005 Member, International Trade Advisory Committee ([ITAC-3](#)) on Chemicals, Pharmaceuticals, and Health/Science Products and Services. Jointly appointed by the Secretary of Commerce and the U.S. Trade Representative.
- 1997–2002 Member, Statewide Advisory Committee, [Virginia Water Resources Research Center](#), Virginia Polytechnic Institute.
- 1987–1992 Member, [Recombinant-DNA Advisory Committee](#), Director’s Office, National Institutes of Health, winner of [AAAS Freedom Award](#).
- Education**
- M.P.P. (Public Policy) Harvard [Kennedy School of Government](#), 1978.
 A.M. and abd Ph.D. (Chemistry) Harvard University, 1974.
 A.B. (Mathematics and Chemistry) Harvard College, 1972.

Teaching

Instructor or Adjunct Faculty in the following courses:

2002–2005	Perspectives on Regulation	George Mason Law School
1989–1990	Intermediate Microeconomics	Virginia Polytechnic Institute
1976–1978	Energy, Environment, & Public Policy	Harvard College
1977–1978	Advanced Analytical Methods	Kennedy School
1976–1977	Analysis for Decision Making	Kennedy School
1977–1978	Law and Statistics	Harvard Law School
1977–1978	Government Roles for Lawyers	Harvard Law School
1973–1975	Organic Chemistry	Harvard College
1972–1973	General Chemistry	Harvard College

Selected Writings

“Employment and Human Welfare: Why does Benefit-Cost Analysis Seem Blind to Job Impacts?” Chapter 10 in [*Does Regulation Kill Jobs?*](#), University of Pennsylvania Press, 2014.

“[Races, Rushes, and Runs: Taming the Turbulence in Financial Trading.](#)” *Working Paper*, George Washington University Regulatory Studies Center, October 23, 2012.

“[Regulatory Subsidies: A Primer.](#)” *Working Paper*, George Washington University Regulatory Studies Center, March 12, 2012.

“[A Personal Recollection of an Extraordinary Teacher, James Q. Wilson, 1931-2012.](#)” *Regulatory Policy Commentary*, George Washington University Regulatory Studies Center, March 5, 2012.

“Dumb Queues and Not-So-Bright Lines: The Use and Abuse of Science in the Endangered Species Act” – Chapter 7 in [*Rebuilding the Ark: New Perspectives on Endangered Species Act Reform*](#), edited by Jonathan Adler. AEI Press, 2011.

“[The Troubling Prospect of ‘Behavioral’ Regulation.](#)” *Regulatory Policy Commentary*, George Washington University Regulatory Studies Center, April 19, 2010.

“Comment on ‘In Defense of Regulatory Peer Review’” *Environmental Law Reporter* 38 ELR 10564, 8-2008.

[*Interim Report of the Committee on Changes in New Source Review Programs for Stationary Sources of Air Pollutants*](#), committee member and co-author. National Research Council, National Academies of Science, 2005.

“[The Planner’s Paradox.](#)” *Regulation*, Summer 2003, Cato Institute.

“[Standard Market Design in Wholesale Electricity Markets: Can FERC’s Proposed Structure Adapt to the Unknown?](#)” with Lynn Kiesling, *Electricity Journal*, March 2003, Elsevier.

“Public Interest Comment on The Environmental Protection Agency’s Proposed Water Quality Trading Policy,” Mercatus Center at George Mason University, 2002.

“[Standard Market Design in Wholesale Electricity Markets: Can FERC’s Proposed Structure Adapt to the Unknown?](#)” with Lynn Kiesling, Policy Study No. 301, The Reason Public Policy Foundation, 2002.

“[Bringing Java to the Café.](#)” *Regulation*, Fall 2001, The Cato Institute.

Climate Change Policy Could Create the Mother of All Cartels.
Environment and Climate News, June 2001

“What would Julian Simon Have Said” *Environment and Climate News*, March 2001

“Glass Slippers or Iron Boots?—Facing the ‘Cinderella Constraint,’ Clinton Appointees Leave Behind a Record-Breaking Stack of Midnight Regulations.” *Legal Analysis and Regulations (LAR)*, Manufacturers Alliance, January 2000.

“The Constitution in Exile Shows Renewed Signs of Life.” *The Business Executives Digest*, June 2000.

“The Color of Money—Is It Green Enough?” *Regulation* 2000 No. 2, The Cato Institute.

“How Much Do We Care about the Deep Future?” *Regulation* 2000 No. 2, The Cato Institute.

“OSHA’s Draft Ergonomics Rule.” *Legal Analysis & Regulations (LAR-418)*, Manufacturers Alliance, 1999.

“The NOx Emissions Cap: Comments on the EPA’s Proposed Rule.” *Executive Letter (EL-192)*, Manufacturers Alliance, 1998.

“The Costs of Federal Regulation.” *Business Executives Digest*, Manufacturers Alliance, September 1998.

“Superfund Update.” *The Business Executives Digest*, Manufacturers Alliance, May 1998.

“A Benefit-Cost Analysis of a Regional Global Ocean Observing System: SeaWatch Europe.” *Marine Policy*, Vol. 20 No. 5, pp. 357-376, with Jan Stel. Elsevier, Great Britain, 1996.

“The Costs and Benefits of SeaWatch Europe.” Organization for Economic Cooperation and Development, Megascience Forum; 1996.

“Buying Time: A Perspective on Risk Regulation,” *Working Paper*, Citizens for a Sound Economy; 1994.

“Improving the Cost-Effectiveness of Government: Alternatives to Command-and-Control Regulation,” OECD Public Management Service, 5 May 1994.

“The Origin of Endangered Species, and The Descent of Man,” *The American Enterprise*, Nov/Dec 1992.

“Franchising FIFRA,” *Regulation*, 1987 Nos. 3/4.

“An Environment of Risk and Uncertainty,” *Regulation*, 1987 No. 2.

“Biotechnology: A Case Study,” A Special Analysis for the *Regulatory Program of the United States*. Office of Management & Budget, 1986.

“Overview” in the *Regulatory Program of the United States*. Office of Management and Budget; August, 1985.

Final Report of the Task Force on Regulatory Relief, (chief author and editor). Office of the Vice President; August, 1983.

Pre-manufacture Notification under the Toxic Substances Control Act, with J. Gomez-Ibanez. Council on Wage & Price Stability; March 1981.

Work-Commitment Bidding on the Outer Continental Shelf. Council on Wage & Price Stability; September 19, 1980.

The Department of Energy's Proposed Energy Efficiency Standards for Consumer Appliances. Regulatory Analysis Review Group; Sept. 1980.

The Department of Energy's Proposed Energy Performance Standards for New Buildings. Regulatory Analysis Review Group; April 30, 1980.

NHTSA's Proposed Light Truck Average Fuel Economy Standards, with David Harrison. Regulatory Analysis Review Group; March 1980.

Net Profit Share Bidding on the Outer Continental Shelf. Council on Wage & Price Stability; March 7, 1980.

Sequential Bidding on the Outer Continental Shelf. Council on Wage & Price Stability; November 14, 1979.

Comments on the Union Oil Company's Application for Exceptions Relief. Council on Wage & Price Stability; October 26, 1979.

High-Cost Natural Gas from Tight Formations. Council on Wage & Price Stability; October 15, 1979.

Indemnification and Environmental Regulation. Environmental Protection Agency; April 18, 1979.

Conceptual Paper on Permitting Energy Facilities. Department of Energy; February 16, 1979.

Oil Storage Capacity in Massachusetts Industries and Utilities. Massachusetts Energy Policy Office; May 28, 1977.