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Professor, Department of Economics and School of Law
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Curriculum Vitae

EDUCATION

A.B. University of California, Berkeley, mathematics, 1974

Ph.D. California Institute of Technology, social sciences, 1979

FIELDS

Economics of innovation, government regulation, government policy for research and innovation,
positive political theory and law

ACADEMIC AND PROFESSIONAL POSITIONS HELD

2006- Associate Dean for Research and Graduate Studies, School of Social Sciences, UC Irvine

1987- University of California, Irvine, Department of Economics

2007- Professor, School of Law

1998-2001 Chair, Department of Economics

1995 - Professor of Economics

1991-95 Associate Professor

1988-91 Assistant Professor

1987-88: Visiting Assistant Professor

1988- Member, Irvine Research Unit in Mathematical Behavioral Sciences, U. C. Irvine

1988- Member, UCI Center for the Study of Democracy

- 2003-4 Gilbert White Visiting Fellow, Resources for the Future, Washington DC
- 2001-05 Professor of Social Science and Law, University of Southern California Law School
- 1998 Olin Visiting Professor in Law and Economics, University of Southern California Law School
- 1993 Visiting Associate Professor, University of Southern California Law Center and Division of Humanities and Social Sciences, CalTech
- 1990 Visiting Assistant Professor of Economics and Law, University of Southern California
- 1986-87 Visiting Assistant Professor, Department of Economics, University of Washington
- 1983-85 Research Associate, Economic Studies, Brookings Institution, Washington, D.C.
- 1982-83 Senior Economist, Environmental Quality Laboratory, California Institute of Technology, Pasadena, CA
- 1980-82 Economist Associate, Economics Department, RAND Corporation, Santa Monica, CA
- 1978-80 Assistant Professor of Public Policy, Kennedy School of Government, Harvard University

HONORS

- 2008 Academic Senate Award for Distinguished Midcareer Service, UC Irvine
- 2003 Gilbert White Fellow, Resources for the Future, Washington, DC
- 2003 Distinguished Economist Lecture, Industrie Canada, Ottawa.
- 1998- present Fellow, California Council for Science and Technology
- 1993; 1998 Olin Fellow in Law and Economics
- 1977 Research fellow, Brookings Institution, Washington, D.C.

OTHER PROFESSIONAL EXPERIENCE

2006- present. Member, National Research Council Committee on America's Energy Future; Panel Member of the Energy Efficiency Panel. Board on Energy and Environmental Systems, NRC, National Academy of Sciences.

2005-06 Member, National Research Council Committee on the Prospective Benefits of DOE Research and Development on Energy Efficiency and Fossil Energy, Phase 2; and panel member, Evaluating the Benefits of the DOE Program in IGCC (Board on Energy and Environmental Systems, NRC, National Academy of Sciences)

2003-05 Member, National Research Council Committee on the Prospective Benefits of DOE Research and Development on Energy Efficiency and Fossil Energy, Phase 1 (Board on Energy and Environmental Systems, NRC, National Academy of Sciences)

2003-4 Member, APS Review Panel on the Department of Energy's Hydrogen Program

2003-2005 Member and Vice-Chair, Independent Review Board for the Public Interest Energy Research Program, California Energy Commission

California Council for Science and Technology:

2005 – present, Fellow

2007 – present; member, committee on California's Energy Future

2000-2006: Council Member

1999-2001 Member, National Research Council Committee on the Retrospective Benefits of DOE Research and Development on Energy Efficiency and Fossil Energy (Board on Energy and Environmental Systems, NRC, National Academy of Sciences)

1999-2001 Member, Advisory Panel for the Public Interest Energy Research Program, California Energy Commission

1997-2000 Member, National Research Council Committee on Information Technology: Research in a Competitive World (Computer Science and Telecommunications Board, NRC, National Academy of Sciences)

1994 - Editorial Board, Public Choice

1991-94 Member, District Advisory Council, South Coast Air Quality Management District

1986-88 Member, Panel on the Study of Human Factors Research Needs in Nuclear Regulatory Research, National Academy of Sciences, National Research Council

1986-87 Member, Advisory Panel in Support of the Office of Technology Assessment, U.S. Congress, Assessment of Magnetic Fusion Research and Development

1980-82 Member, DOE Program Review Committee on Airborne Nuclear Waste Management

1978-80 Assistant Editor, Public Policy

PUBLICATIONS

Books

The Technology Pork Barrel, with Roger Noll, The Brookings Institution, 1991.

Human Factors Research and Nuclear Safety, with N. Moray, R. Dynes, H. Estrada, C. George, P. Haas, L. Hirschhorn, B. Huey, J. Keen, T. LaPorte, J. Rasmussen, R. Shikiar, J. Smith, D. Wood, T. Sheridan, National Academy Press, Washington, D.C., 1988.

Making IT Better: Expanding Information Technology Research to Meet Society's Needs, with

coauthors, Report of the Committee on Information Technology: Research in a Competitive World, National Academy Press, 2000.

Energy Research at DOE: Was It Worth It?, with coauthors, Report of the Committee on Benefits of DOE R&D on Energy Efficiency and Fossil Energy, National Academy Press, 2001.

Prospective Evaluation of Applied Energy Research and Development at DOE (Phase One): A First Look Forward, with coauthors, Report of the Committee on Benefits of DOE R&D on Energy Efficiency and Fossil Energy, National Academy Press, 2005.

Prospective Evaluation of Applied Energy Research and Development at DOE: Phase Two, with coauthors, Report of the Committee on Benefits of DOE R&D on Energy Efficiency and Fossil Energy, National Academy Press, 2007.

Real Prospects for Energy Efficiency in the United States, with coauthors, part of the *America's Energy Future* project, National Academy Press, 2009.

Journal Articles and Book Chapters

“Stop laser uranium enrichment,” with Francis Slakey, *Nature*, vol 464, 4 March 2010.

“Proliferation and Uranium Enrichment,” with Francis Slakey, *Physics and Society*, vol 39 no. 3, 2010.

“Powering Progress: Restructuring, Competition and R&D in the U.S. Electric Utility Industry,” with Paroma Sanyal, *The Energy Journal*, forthcoming (2009).

“Shakedown at Gucci Gulch: The New Logic of Collective Action,” with Ed McCaffery, *North Carolina Law Review*, 84 (4): May, 2006.

“Intellectual Property, Antitrust and the New Economy,” with Roger Noll, *University of Pittsburgh Law Review*, Vol 62 (3): 453, Spring 2001.

“Is U.S. Science Policy at Risk? Trends in federal support for R&D,” with Roger Noll, *The Brookings Review*, Vol 19, No. 1, Winter 2001.

“The Government Litigant Advantage: Implications for the Law,” with Matthew Spitzer, *Florida State University Law Review* Vol 28: 391, 2000.

“Biomedical Research and the Decline of the Medical Services Subsidy at Medical Schools,” *1998 AAAS Science and Technology Yearbook*, The American Association for the Advancement of Science, 1998.

"The Technology Reinvestment Program," in *Investing in Innovation*, edited by Lewis M. Branscomb and James Keller, MIT Press, 1998.

"Universities, Constituencies and the Role of the States," with Roger Noll in *Challenges to Research Universities*, edited by Roger Noll, The Brookings Institution, 1998.

"Soft Money, Hard Choices: Research Universities and University Hospitals," in *Challenges to Research Universities*, edited by Roger Noll, The Brookings Institution, 1998.

"Research and Development After the Cold War," with Roger Noll, in *Commercializing High Technology: East and West. Selected Conference Papers*, edited by Judith B. Sedaitis, Center of International Security and Arms Control, Stanford University, January 1996.

Republished by Rowman and Littlefield Press, 1997.

"Terms of Office, Legislative Structure, and Collective Incentives," in *Constitutional Reform in California: Making State Government More Effective and Responsive*, edited by Bruce Cain and Roger Noll, IGS Press, U.C. Berkeley, 1995.

"The Future of the National Laboratories," with Roger Noll, *Proceedings of the National Academy of Sciences*, 93 (23), Nov. 12, 1996: 12678-12685.

"Judicial Deference to Agency Action: A Rational Choice Theory and an Empirical Test," with Matthew L. Spitzer, *Southern California Law Review*, vol. 69 no. 2, January, 1996.

"Feasibility of Effective Public-Private R&D Collaboration: The Case of Cooperative R&D Agreements," with Roger Noll, *International Journal of Economics and Business*, v. 2, no. 2, 1995: 223-240.

"Term Limits and Representation," with Matthew L. Spitzer, in *Legislative Term Limits: Public Choice Perspectives*, edited by Bernard Grofman, Kluwer Academic Publishers, 1996.

"An Assessment of New Directions in R&D Policy," with Roger G. Noll, in *The Mosaic of Economic Growth*, edited by Ralph Landau and Gavin Wright, Stanford University Press, 1996.

"Privatizing Public Research," with Roger G. Noll, *Scientific American*, September, 1994.

Reprinted in *Leading Economic Controversies of 1996*, edited by Edwin Mansfield, W.W. Norton, 1995.

"When Can Government Subsidize Research Joint Ventures? Politics, Economics, and Limits to Technology Policy," *American Economic Review*, Vol 84, No. 2, May, 1994.

Reprinted in *Industrial Policy and Competitive Advantage*, edited by David B. Audretsch, The International Library of Critical Writings in Economics (series editor: Mark Blaug), Edward Elgar Publishing Limited, Cheltenham, UK, 2005

"Appraising Transportation Research," with Gordon J. Fielding, James F. Nolan, and George C. Smith, *Transportation Research Record*, 1995.

Reprinted in *Transportation Research Circular*, No. 426, May, 1994.

"Solving The Chevron Puzzle," with Matthew Spitzer, *Law and Contemporary Problems*, Vol. 57, No. 2; Winter & Spring, 1994.

"The Politics of Nuclear Power in Japan and the United States," with Mathew McCubbins and Frances Rosenbluth, in *Comparative Politics in the United States and Japan*, edited by Peter Cowhey and Mathew McCubbins, Cambridge Univ. Press, 1995.

"Research and Development," with Roger G. Noll, in *Setting Domestic Priorities: What Can Government Do?* edited by Henry J. Aaron and Charles L. Schultze, The Brookings Institution, 1992.

"Term Limits," with Matthew Spitzer, *Georgetown Law Review*, February, 1992.

reprinted in *Public Choice and Public Law: Readings and Commentary*, Maxwell L. Stearns, Anderson Publishing Co., 1997.

"The National Aerospace Plane: An American Technological Long Shot, Japanese Style," with Susan Edelman and Roger Noll, *American Economic Review*, Vol. 81, No. 2, May 1991.

"How to Vote, Whether to Vote: Strategies for Voting and Abstaining on Congressional Roll Calls," with Roger Noll, *Political Behavior*, Vol. 13, No. 2, 1991.

"Energy Research and Development. Problems and Proposals," in *Opportunities for Energy Research and Development*, conference proceedings, General Accounting Office, 1990.

"Federal Policies for Communications Research and Development," in *New Directions in Telecommunications Policy*, Vol. 2, edited by Paula R. Newberg, Duke University Press, 1989.

"The Political Economy of NASA's Applications Technology Satellite Program," with Roger Noll, in *Proceedings of a Symposium on Space Communications Research and Development*, Space Applications Board, National Research Council, Washington, D.C.: 1988.

"Economics, Politics, and Government Research and Development," with Roger Noll, in *Technology and Politics*, ed. by Michael Kraft and Norman Vig, Duke University Press, 1988.

"Government Research for Commercializing Space," with Roger Noll, *American Economic Review, Papers and Proceedings*, May, 1986

"Adjusting to Economic Change," with R. Lawrence, L. Krause, R. Meyer, in *Economic Choices 1984*, edited by Alice Rivlin, Brookings Institution, Washington, D.C., 1984.

"A Spot Market for Electricity: Preliminary Analysis of the Florida Energy Broker," The RAND Corporation, N-1817-DOE, Santa Monica, CA., 1982.

"Who Pays the Bill: Insuring Against Risks from Low Level Nuclear Waste Disposal," *National Resources Journal*, vol. 21, Oct., 1981.

"The Economics of Disaster Defenses: Building Codes to Resist Seismic Shocks," with Roger Noll, *Public Policy*, vol. 29, no. 1, Winter, 1981.

reprinted in *The Economics of Natural Hazards*, ed. by Howard Kunreuther and Adam Rose, Elgar Publishing Ltd., Cheltenham, UK, 2004

"Innovation and Atomic Energy: Nuclear Power Regulation, 1966-Present," *Journal of Law and Contemporary Problems*, vol. 43, no. 1, 1980.

"Constrained Plott Equilibria, Directional Equilibria, and Global Cycling Sets," with Steven Matthews, *Review of Economic Studies*, XLVII, 1980.

"Cyclic Sets in Multidimensional Voting Models," *Journal of Economic Theory*, February, 1979.

"Communication and Agenda Influence: The Chocolate Pizza Design," with Michael E. Levine and Charles R. Plott, in *Contributions to Experimental Economics*, vol. 7, ed. by H. Sauermann, Tübingen: Mohr, 1978.

Reports

New Technology Research: Costs and Benefits, with Gordon J. Fielding, prepared for California Department of Transportation, Division of New Technology, Materials and Research, Caltrans, June, 1993.

California Science and Technology Indicators, prepared for the California Council for Science and Technology, February, 1999.

Other Publications

Book review of *The Competitive Economics of Nuclear and Coal Power* by Richard Hellman and

Caroline C. Hellman, *Natural Resources Journal*, vol. 23, July, 1983.

Comment on "Private Contracting versus Public Regulation as a Solution to the Natural Monopoly Problem," by Thomas Hazlett, in *Unnatural Monopolies: The Case for Deregulating Public Utilities*, edited by Robert W. Poole, Jr., D.C. Heath and Company, 1985.

Book review of *Controlling the Atom* by George T. Mazuzan and J. Samuel Walker, *Science*, vol. 228, 4701, May 17, 1985.

Comment on McNollgast, *Southern California Law Review*, vol 69 no. 1, 1996.

Science and regulation – A solution to concerns over public access to scientific data, with RW Hahn, *Science*, Vol 285, Issue 5427, 535-536, July 23, 1999.

A Statement on the Appropriate Role for Research and Development in Climate Policy, by Kenneth J. Arrow, Linda Cohen, Paul A. David, Robert W. Hahn, Charles Kolstad, Lee Lane, W. David Montgomery, Richard R. Nelson, Roger Noll and Anne E. Smith, January 2009, forthcoming in *The Economists' Voice*.

'Brief as Amici Curiae in Support of Petitioners' in Eldred v. Ashcroft, U.S. Supreme Court, 2003, (The "Economists' Brief") with 16 coauthors, reprinted in *Recent Trends in the Economics of Copyright* by Ruth Towse (Editor), Richard Watt (Editor) *Edward Elgar* August 2008.

Recent Presentations and Workshops (Sept 2005 – Sept. 2008)

Invited presentations at educational, governmental institutions

Resources for the Future, June 18, 2008. "Optimal" Climate Change and "Optimal" Innovation Policies at Odds."

Catholic University Law School. March 29, 2007. "First-to-invent, first-to-file and strategic patenting by firms."

Stanford Law School, December 4, 2006. "A preliminary assessment of settlement in Interference Cases, 1988-1994."

UC Riverside. Dept of Economics. April 9, 2007. "Competition, innovation and racing for priority at the U.S. Patent and Trademark Office."

UCI, Merage School. Science and Innovation Workshop.. "Competition, innovation and racing for priority at the U.S. Patent and Trademark Office." Fall, 2007.

IGCC/ UCSD, Summer 2006. “Political Economy of Innovation in the Energy Sector.”

Energy Information Administration, February, 2008, “The Political Economy of Direct Federal Subsidies for Energy.”

Energy Information Administration. Workshop on Consumer and Investor Decision-Making and the Use of Expectations. December 11, 2007. “Investment, Risks and Policy Innovation in the Electricity Supply Sector”

50th Anniversary Celebration at Sandia National Laboratories, panel on Science, Technology and Energy: California Connections with National Impact. March 9, 2006. “The Politics and Economics of State-National Lab Partnerships.”

Invited presentations at professional meetings

2008 World Congress of National Accounts and Economic Performance Measures for Nations (May). “Tax Incentives and the Federal R&D Enterprise”

USC Fuels Meeting, May 23-24, 2007. Discussed innovation in alternate fuels; US Government Policies.

National Commission on Energy Policy, Colloquium on R&D Models, JFK School of Government, Harvard University, July 2007., “The National Labs in New Energy Markets”

Conference in honor of Roger Noll, Stanford University. May 20, 2006. “Competition, innovation and racing for priority at the U.S. Patent and Trademark Office.”

American Law and Economics Association, May 2006. “Competition, innovation and racing for priority at the U.S. Patent and Trademark Office.”

American Physical Society Panel on Public Affairs (APS/POPA), Workshop on Electrical Storage, August 14, 2006. “Should the DOE Establish an R&D Initiative in Electrical Storage?”

International Industrial Organization Conference (IIOC), Boston, April, 2006. “Competition, innovation and racing for priority at the U.S. Patent and Trademark Office.”

Association of Public Policy and Management., Annual Meeting, Fall 2006. “Political Economy and Patent Policy Reform.”

Resources for the Future, Conference on the Energy Policy Act of 2005. Nov. 2, 2005. “Incentives, Technology Development and the 2005 Energy Policy Act.”