

CURRICULUM VITAE
ROGER G. NOLL

PERSONAL

Date and Place of Birth: March 13, 1940, Monterey Park, California

EDUCATION

East High School, Salt Lake City, Utah, 1958
B.S. (Math, Honors), California Institute of Technology, 1962
A.M., Ph.D. (Economics), Harvard University, 1965, 1967

SCHOLARSHIPS, FELLOWSHIPS AND AWARDS

National Merit Scholarship 1958-62
National Defense Education Act Fellowship 1962-66 (declined)
Harvard Prize Fellowship 1962-63
National Science Foundation Fellowship 1963-64
Guggenheim Fellow 1983-84
Rhodes Prize for Undergraduate Teaching, Stanford University, 1994
Distinguished Service Award, Public Utilities Research Center, University of Florida, 2001
Distinguished Lecture Award, Brookings-AEI Joint Center on Regulation and Markets, 2006
Alfred E. Kahn Distinguished Career Award, American Antitrust Institute, 2012
Distinguished Member Award, Transportation and Public Utilities Group, American Economic Association, 2013
Economist of the Year, Global Competition Review, 2015

POSITIONS HELD

Instructor, California Institute of Technology, 1965-67
Assistant Professor, California Institute of Technology, 1967-69
Senior Staff Economist, Council of Economic Advisers, 1967-68
Associate Professor, California Institute of Technology, 1969-71
Senior Fellow and Co-director, Studies in the Regulation of Economic Activity, Brookings Institution, 1970-73
Professor, California Institute of Technology, 1973-82
Visiting Professor, Graduate School of Business, Stanford University, 1976-77
Chair, Division of the Humanities and Social Sciences, California Institute of Technology, 1978-82
Reuben Gustavson Lecturer, University of Chicago, April 1981
Institute Professor of Social Sciences, California Institute of Technology, 1982-84
Donald Gilbert Memorial Lecturer, University of Rochester, December 1982
Fellow, Center for Advanced Study in the Behavioral Sciences, 1983-84
Professor of Economics, Stanford University, 1984-2006 (*Emeritus* 2006-)
Visiting Scholar, Hoover Institution, 1984-85
Professor by Courtesy, Department of Political Science, Stanford University, 1985-2006
Professor by Courtesy, Graduate School of Business, Stanford University, 1986-2006
Veblen-Clark Lecturer, Carleton College, May 1986
Director, Public Policy Program, Stanford University, 1986-2002
David Kinley Lecturer, University of Illinois, May 1987

Positions, cont'd

Sunderland Fellow, Law School, University of Michigan, Fall 1988
Morris M. Doyle Centennial Professor in Public Policy, Stanford University, 1990-2002
Jean Monnet Professor, European University Institute, Spring 1991
Associate Dean, Humanities and Sciences, Stanford University, 1991-92
Visiting Professor, University of California, San Diego, 1993
Visiting Fellow, Brookings Institution, 1995-96
Nonresident Senior Fellow, Brookings Institution, 1996-99
Director, American Studies Program, Stanford University, 2001-02
Visiting Scholar, London School of Economics, Spring 2001 and Spring 2002
Senior Fellow, American Antitrust Institute, 2002-
Director, Stanford Center for International Development, 2002-06
Kim Thomas Lecturer, Whittier College, 2010

TEACHING EXPERIENCE

Undergraduate: Introductory Economics, Intermediate Microeconomic Theory, Introduction to Econometrics, Antitrust and Regulation, Economic History of Medieval Europe, History of Economic Thought, Economic Policy Analysis, Economics of Sports, Political Economy of the West

Graduate: Antitrust and Regulation, Economic Policy Analysis, Applied Microeconomic Theory, Experimental Economics

RESEARCH INTERESTS

Antitrust and Regulation, Technology Policy, Political Economics, Political Economy of Law

MEMBERSHIP ON BOARDS AND COMMITTEES

President's Task Force on Communications Policy (CEA Staff Representative), 1967-68
President's Task Force on Suburban Problems, 1968
President's Committee on Urban Housing, 1968
President's Task Force on Public Broadcasting, 1968
Department of Commerce Technical Advisory Board Panel on Venture Capital, 1968-69
Committee on the Multiple Uses of the Coastal Zone, National Council on Marine Resources and Engineering, 1968
Secretary, President's Interagency Task Force on Income Maintenance, 1968
Task Force on Application of Economic Analysis to Transportation Problems, National Research Council, 1970-73
Committee on Technological Forecasting on Behalf of the Environment, Office of Science and Technology, 1970-71
Board of Economic Advisers, Public Interest Economics Foundation, 1974-84
Executive Committee, Caltech Environmental Quality Laboratory, 1970-71
Faculty Board, Caltech, 1974-76
Advisory Commission on Regulatory Reform, Senate Committee on Government Operations, 1975-77
Chair, Fourth Annual Telecommunications Policy Research Conference, 1975-76
Committee on Satellite Communications, National Academy of Sciences, 1975-76
Advisory Council, Jet Propulsion Laboratory, 1976-82

Boards, cont'd

Chair, Committee to Monitor the Desegregation Plan of the Los Angeles Unified School District, Los Angeles Superior Court, 1978-79
Advisory Council, National Aeronautics and Space Administration, 1978-81
Advisory Council, National Science Foundation, 1978-89
Board of Advisers, National Institute of Economics and Law, 1978-84
Research Advisory Board, Committee for Economic Development, 1979-82
President's Commission for a National Agenda for the Eighties, 1980
Board of Directors, Economists, Inc., 1981-
Review Panel, NSF Regulation and Public Policy Program, 1981-84
Board of Editors, Journal of Economic Literature, 1981-90
Advisory Board, Solar Energy Research Institute, 1982-91
Board of Directors, Cornell Pelcovits and Brenner, Inc., 1982-1988
Chair, Advisory Panel on Information Technology R&D, Office of Technology Assessment, 1983-84
Supervisory Board of Editors, Information Economics and Policy, 1982-88
Advisory Committee on Integrated Environmental Management Program, Environmental Protection Agency, 1983-85
Commission on Behavioral and Social Sciences and Education, National Research Council, 1984-90
Advisory Panel, NSF Policy Research and Analysis Division, 1984
Director, Program on Regulatory Policy, Stanford Institute for Economic Policy Research, 1984-
Panel on Clean Air, Science Advisory Board, Environmental Protection Agency, 1985-86
Board of Editors, Review of Economics and Statistics, 1985-2002
Contributing Editor, Regulation, 1986-93
Energy Research Advisory Board, Department of Energy, 1986-89
President & Chairman of the Board, Telecommunications Policy Research Foundation, 1986-87
Coordinating Editor, Information Economics and Policy, 1988-92
Board of Directors, International Telecommunications Society, 1988-92
Advisory Board of Editors, Journal of Risk and Uncertainty, 1988-
Acid Rain Advisory Committee, Environmental Protection Agency, 1990-91
Secretary of Energy Advisory Board, 1990-95
International Board of Editors, International Journal of the Economics of Business, 1993-
Faculty Senate, Stanford University, 1993-95, 98-02, 04-06
California Council on Science and Technology, 1995-2001
Panel on Universities, President's Committee of Advisors on Science and Technology, 1996
Committee on Intellectual Property and the Information Infrastructure, National Research Council, 1997-9
Board of Editors, Journal of Sports Economics, 1999-
Board of Associate Editors, Economics of Governance, 1999-
Board of Advisers, American Antitrust Institute, 2000-
Board on Science, Technology and Economic Policy, National Research Council, 2000-2006
Committee on Universal Postal Service, National Research Council, 2008

SPONSORED RESEARCH

"Opinions of Policemen." International Association of Chiefs of Police, 1969
"Studies in the Regulation of Economic Activity." Brookings Institution and Ford Foundation, 1970- 3
"Government Policies and Technological Innovation." National Science Foundation National R&D Assessment Program, 1973-4
"The Social Consequences of Earthquake Prediction," National Aeronautics and Space Administration, 1974-6
"Nuclear Safety Regulation." National Science Foundation RANN Program, 1975-7
"The Public Television Station Program Cooperative." National Science Foundation RANN Program, 1975-7

Sponsored Research, cont'd

"The Station Allocation Game." Federal Communications Commission, 1977
"Energy Policy Studies." Various donors, 1978-84
"Economics of Oil Leasing" and "Issues in Utility Pricing." Department of Energy, 1978-9
"The Economics of Boxing, Wrestling and Karate." California Athletic Commission, 1978
"Implementing Tradable Emissions Permits." California Air Resources Board, 1979-82
"Social Science and Regulatory Policy." National Science Foundation, 1980-2
"The Political Economy of Public Policy." National Science Foundation and Center for Economic Policy Research, Stanford University, 1983-4
"SIEPR Program on Regulatory Policy." various donors, 1987-
"The Economics of Research Universities and Scholarly Communication." Brown Center for Education Policy, Brookings Institution, 1995-6
"Coordination of Regulatory Reform," Organization for Economic Cooperation and Development, 1996
"The Future of the Research University," Carnegie Foundation, 1996
"SCID Program in Economic Policy Reform," Various donors, 2002-06

CONSULTING

Special Assistant to the President, Ford Foundation, 1969
Space Technology Applications, Jet Propulsion Laboratory, 1969
Panel on the Abatement of Particulate Emissions, National Research Council, 1971
Sloan Commission on Cable Communications, 1971
President's Commission on Government Procurement, 1971
Senate Subcommittee on Antitrust and Monopoly, 1971-72
MCI, Inc., 1972-73, 1983, 1986
National Science Foundation, 1973, 1975
Department of Justice, Antitrust Division, 1974-77, 1979-81, 1993-97
Internal Revenue Service, 1976-77
RAND Corporation, 1974-82
Los Angeles Lakers, 1974-75
National Football League Players Association, 1974-76, 1987-93, 2008, 2010-
Office of Telecommunications Policy, 1975-77
National Basketball Association Players Association, 1975-76, 1987-88, 1994
Naval Ordnance Test Station, 1975
Commission on Law and the Economy, American Bar Association, 1977-78
Aspen Institute Program on Communications and Society, 1977
National Commission on Electronic Funds Transfer, 1977
Business Round Table, 1978
Federal Communications Commission, 1977-81
Food and Drug Administration, 1978
Carnegie Commission on the Future of Public Broadcasting, 1978
Department of Energy, 1979
Office of Technology Assessment, 1980
Kerr-McGee Corporation, 1980
CBS, Inc. 1982-83
Environmental Protection Agency, 1982-83
Showtime/The Movie Channel, 1983, 1985
Harlequin Books, 1984
Lake Huron Broadcasting, 1984
National Collegiate Athletics Association, 1984

Consulting, cont'd

National Medical Enterprises, 1985, 1987-88
Camellia City Telecasters, 1985-86
Brown and Root, Inc., 1985-86
McDermott, Inc., 1985-86
Major League Baseball Players Association, 1985, 1994
United Cable Television and American Television and Communications, 1985
United States Football League, 1985-86
City of Anaheim, 1986
Technicolor, 1986
Metro-Mobile, 1986-89
Hewlett-Packard, 1986-1990, 1991
EchoStar, 1987, 1994-95, 2002-03, 2004-05
Continental Airlines, 1987-88
Home Box Office, 1988-89
Bell South Cellular, 1989
Western Union, 1989
Minnesota Twins, 1989
Northwest Airlines, 1989
Pepsico, 1989
Yellow Phone, 1989-91
Dialog, 1990-91
California Public Utilities Commission, 1989-90
American Newspaper Publishers Association, 1990
Humana, 1990-91
Powell, Goldstein, Frazer and Murphy, 1990-93
South Coast Air Quality Management District, 1990-91
Federal Trade Commission, 1990-91, 2010-
Delta Airlines, 1991
California Cable Television Association, 1991
Bureau of Competition Policy, Government of Canada, 1991
R&D Business Systems, *et al.* 1991-95
International Entertainment Group, 1992-93
Nike, Inc., 1992
World Bank, 1992-
Gemini, Inc. 1992-94
Servicetrends, Inc., 1993-94
William Sullivan, 1993-95
Sure Safe Industries, 1993
U. S. Department of Justice, Civil Division 1994-95
Kopies, Inc., *et al.* 1995-1999
Telecom Technical Services, *et al.*, 1995-1999
Digital Distribution, Inc.. 1996-1999
Silvey, *et al.*, 1996-2000
Aguillar, *et al.* 1996-2000
Wadley Medical Center, 1997-2001
Oakland Raiders, 1997-2000
Major League Soccer Players Association, 1997-2000
Class Plaintiffs, Brand Name Prescription Drugs Litigation, 1998-9
Class Plaintiffs, Compact Disc Litigation, 1999-2003
Class Plaintiffs, State Microsoft Antitrust Litigation (California, Iowa, Minnesota, New York), 2000-2007

Consulting, cont'd

Kingray, 2000
Napster, 2000-2
Metropolitan Intercollegiate Basketball Association, 2002-5
Congressional Budget Office, 2002
Pioneer and Scientific Atlanta, 2002-3
Lencrafters, 2003-4, 2009-12
Seven Network, 2003-7
Sports Car Clubs of America, 2003-05
Intertainer, 2003-05
Class Plaintiffs, DRAM Antitrust Litigation 2005-7
Class Plaintiffs, Honeywell Antitrust Litigation, 2005-
Class Plaintiffs, Tableware Antitrust Litigation, 2005-7
Class Plaintiffs, *White, et al., v. NCAA*, 2006-8
Class Plaintiffs, Apple iPod Antitrust Litigation, 2006-15
Sirius Satellite Radio and XM Satellite Radio, 2006-7, 2011-12
Class Plaintiffs, Cartier Antitrust Litigation, 2006-7
Monte Carlo Country Club and Société Monégasque pour l'Exploitation du Tournoi de Tennis, 2007
Pearle Vision, Inc., 2007-8
Class Plaintiffs, Apple iTunes/iPod Antitrust Litigation, 2007-15
Class Plaintiffs, SRAM Antitrust Litigation, 2007-9
Fair Isaac, 2007-9
Houston Baptist University, 2008.
U. S. Department of Justice, U. S. Attorney's Office, San Francisco, 2008-9
Novell, 2008-11
GlaxoSmithKline, 2008-
Class Plaintiffs, Flash Memory Antitrust Litigation, 2008-10
MobiTV, 2009-10
AT&T, 2009-10
Verizon, 2009-10
Ericsson, 2009-10
Kaleidescape, 2011-12
Class Plaintiffs, Text Messaging Antitrust Litigation, 2011-15
Class Plaintiffs, California Automobile Insurance Antitrust Litigation, 2011-14
Class Plaintiffs, NCAA Student-Athlete Name and Likeness Licensing Litigation, 2011-14
State Attorneys General and Class Plaintiffs, E-Books Antitrust Litigation, 2013-14
Pandora Media, 2013-14
Class Plaintiffs, Television Blackout Antitrust Litigation, 2013-
City of San Jose, 2014-

BOOKS AND MONOGRAPHS

Reforming Regulation: An Evaluation of the Ash Council Report. Brookings Institution, 1971.

Economic Aspects of Television Regulation, co-authors Merton J. Peck and John J. McGowan. Brookings Institution, 1973. Winner, National Association of Educational Broadcasters Annual Book Award, 1974.

Government and the Sports Business, editor. Brookings Institution, 1974.

The Political Economy of Deregulation, co-author Bruce Owen. American Enterprise Institute, 1983.

Books, cont'd

Regulatory Policy and the Social Sciences, editor. University of California Press, 1985.

The Technology Pork Barrel, co-author Linda R. Cohen. Brookings Institution, 1991.

The Economics and Politics of Deregulation. European University Institute, 1991.

Constitutional Reform in California: Making State Government More Effective and Responsive, co-editor Bruce E. Cain. University of California Institute of Governmental Studies, 1995.

Sports, Jobs, and Taxes, co-editor Andrew Zimbalist. Brookings Institution, 1997.

Challenges to Research Universities, editor. Brookings Institution, 1998

A Communications Cornucopia, co-editor Monroe E. Price. Brookings Institution, 1998.

The Economics and Politics of the Slowdown in Regulatory Reform. AEI Press, 1999.

The Digital Dilemma, 17 co-authors (Committee on Intellectual Property Rights and the Emerging Information Infrastructure). National Academy Press, 2000.

Bridging the Digital Divide, editor. California Council on Science and Technology, 2001.

Economic Reform in India, co-editors Nicholas C. Hope, Anjini Kochar, and T.N. Srinivasan. Cambridge University Press, 2013

ARTICLES IN SCHOLARLY PUBLICATIONS

"Urban Concentration: Prospects and Implications." In *Increasing Understanding of Public Problems and Policies*. Farm Foundation, 1969.

"Metropolitan Employment and Population Distribution and the Conditions of the Urban Poor." In *Financing the Metropolis: Public Policy in Urban Economics: The Urban Affairs Annual Reviews*, IV, John P. Crecine, ed. Sage Publications, 1970. Brookings Reprint No. 184.

"National Communications Policy: Discussion--Spectrum Allocation Without Markets." *American Economic Review Papers and Proceedings* 60(2) (May 1970).

"The Behavior of Regulatory Agencies." *Review of Social Economics* 24(1) (March 1971): 15-19. Brookings Reprint No. 219 (November 1971).

"Summary and Conclusions," co-author William Capron. In *Technological Change in Regulated Industries*, William Capron, ed. Brookings Institution, 1971.

"The Nature and Causes of Regulatory Failure." *Administrative Law Review* 23(4) (June 1971): 424-437. Revised version published as "The Economics and Politics of Regulation." *Virginia Law Review* 57(6) (September 1971): 1016-1032.

"Mass Balance, General Equilibrium and Environmental Externalities," co-author, John Trijonis. *American Economic Review* 61(4) (September 1971): 730-735.

Scholarly Articles, cont'd

- "Selling Research to Regulatory Agencies." In *The Role of Analysis in Regulatory Decisionmaking: The Case of Cable Television*, Rolla Edward Park, ed. Heath-Lexington, 1973.
- "Relative Prices on Regulated Transactions of the Natural Gas Pipelines," co-author Paul W. MacAvoy. *Bell Journal of Economics and Management Science* 4(1) (Spring 1973): 212-234.
- "Regulating Prices in Competitive Markets," co-author Lewis A. Rivlin. *Yale Law Journal* 82(7) (June 1973): 1426-1434.
- "Attendance and Price Setting." In *Government and the Sports Business*, Roger G. Noll, ed. Brookings Institution, 1974. Reprinted in *The Economics of Sport*, Andrew Zimbalist, ed. Edward Elgar, 2001.
- "The U.S. Team Sports Industry." In *Government and the Sports Business*, Roger G. Noll, editor. Brookings Institution, 1974. Abridged version reprinted in *Public Policies Toward Business: Reading and Cases*, William G. Shephard, ed. Irwin, 1975.
- "Alternatives in Sports Policy." In *Government and the Sports Business*, Roger G. Noll, ed. Brookings Institution, 1974. Abridged version in *Public Policies Toward Business: Readings and Cases*, William G. Shephard, ed. Irwin 1975. Revised version in *Handbook of Social Science of Sport*, Gunther R. R. Luschen and George H. Sage, eds. Stripes Publishing Co., 1980.
- "The Social Costs of Government Intervention." In *The Business-Government Relationship in American Society: Reassessment*, Neil H. Jacoby, editor. University of California Press, 1975.
- "The Consequence of Public Utility Regulation of Hospitals." In *Controls on Health Care*. Washington, D.C.: National Academy of Sciences, 1975.
- "Information, Decision-Making Procedures and Energy Policy." *American Behavioral Scientist*, Vol. 19, No. 3 (January/February 1976): 267-278. Reprinted in *Current Issues in Social Policy*, W. B. Littrell and G. Sjoberg, eds. Sage, 1976.
- "Breaking Out of the Regulatory Dilemma: Alternatives to the Sterile Choice." *Indiana Law Journal* 51(3) (Spring 1976): 686-699. Reprinted in *Corporate Practice Commentator* 19(1) (Spring 1977): 99-114.
- "Safety Regulation," co-authors Nina Cornell and Barry Weingast. In *Setting National Priorities: The Next Ten Years*, Henry Owen and Charles L. Schultze, eds. Brookings Institution, 1976.
- "Major League Team Sports." In *The Structure of American Industry*, Walter Adams, ed. 5th ed. Macmillan, 1977. 6th ed. Macmillan, 1981.
- "An Experimental Market for Public Goods: The PBS Program Cooperative," co-author John A. Ferejohn. *American Economic Review Papers and Proceedings* 66(2) (May 1976): 267-273.
- "Government Policy and Technological Innovation: Where Do We Stand and Where Do We Go?" In *Innovation, Economic Change and Technology Policies*, K.A. Stroetmann, ed. Birkhauser-Verlag, 1977.
- "Economic Policy Research on Cable Television: Assessing the Costs and Benefits of Cable Deregulation," co-authors S. M. Besen, B. M. Mitchell, B. M. Owen, R. E. Park, and J. N. Rosse. In *Deregulation of Cable Television*, Paul W. MacAvoy, ed. American Enterprise Institute, 1977.
- "The Economic Implications of Regulation by Expertise: The Case of Recombinant DNA Research," co-author Paul A. Thomas. In *Research with Recombinant DNA*. National Academy of Sciences, 1977.

Scholarly Articles, cont'd

- "The Dilemma of Consumer Advocacy." In *Regulatory Reform*, W.S. Moore, ed. American Enterprise Institute, 1978.
- "Voters, Bureaucrats and Legislators: A Rational Choice Perspective on the Growth of Bureaucracy," co-author Morris P. Fiorina. *Journal of Public Economics* 9(3) (May 1978): 239-254.
- "Public Utilities and Solar Energy Development: Institutional Economic Considerations." In *The Solar Market: Proceedings of the Symposium on Competition in the Solar Industry*, Federal Trade Commission, 1978. Excerpted version in *On the Economics of Solar Energy*, Stephen L. Feldman and Robert M. Wirtshafter, eds. D.C. Heath, Lexington Books, 1980.
- "Uncertainty and the Formal Theory of Political Campaigns," co-author John A. Ferejohn. *American Political Science Review* 72(2) (June 1978): 492-505.
- "The Rationale for Mandated Cost Increases." In *Economic Effects of Government-Mandated Costs*, Robert F. Lanzillotti, ed. University Presses of Florida, 1978.
- "Regulation and Computer Services." In *The Computer Age*, Michael L. Dertouzos and Joel Moses, eds. MIT Press, 1979: 254-284.
- "An Experimental Analysis of Decision-Making Procedures for Discrete Public Goods: A Case Study of a Problem in Institutional Design," co-authors John A. Ferejohn and Robert E. Forsythe. In *Research in Experimental Economics*, Vol. I, Vernon L. Smith, ed. JAI Press, 1979.
- "Voters, Legislators and Bureaucracy: Institutional Design in the Public Sector," co-author Morris P. Fiorina. *American Economic Review Papers and Proceedings* 68(2) (May 1978): 256-260. Translated into Italian in *Problemi Di Amministrazione Pubblica* 4(2) (1979): 69-89.
- "Practical Aspects of the Construction of Decentralized Decision-Making Systems for Public Goods," co-authors John A. Ferejohn and Robert Forsythe. In *Collective Decisionmaking*, Clifford S. Russell, ed. Resources for the Future, 1979.
- "Antitrust Exemptions: An Economic Overview." In National Commission for the Review of Antitrust Laws and Procedures, *Report to the President and the Attorney General*, Vol. II. U.S. Department of Justice, 1979.
- "Regulatory and Nonregulatory Strategies for Controlling Health Care Costs," co-author Alain Enthoven. In *Medical Technology: The Culprit Behind Health Care Costs*, Stuart H. Altman and Robert Blendon, eds. Sun Valley Forum on National Health. U.S. Department of Health, Education and Welfare Publication No. (PHS) 79-3216, 1979.
- "Majority Rule Models and Legislative Elections," co-author Morris P. Fiorina. *Journal of Politics*, Vol. 41, No. 4 (November 1979): 1081-1104.
- "The Game of Health Care Regulation: Comments on Feldman/Roberts." In *Issues in Health Care Regulation*, Richard S. Gordon, ed. McGraw-Hill Book Co., 1980.
- "Discussion: Regulatory Institutions in Historical Perspective." *American Economic Review Papers and Proceedings*, 70(2) (May 1980): 316-317.
- "Regulation in Theory and Practice: An Overview," co-author Paul L. Joskow. In *Studies in Public Regulation*, Gary Fromm, ed. MIT Press, 1981.

Scholarly Articles, cont'd

"The Economics of Disaster Defense: The Case of Building Codes to Resist Seismic Shock," co-author Linda Cohen. *Public Policy* 29(1) (Winter 1981): 1-29. Reprinted in *The Economics of Natural Disasters*, Vol. I, Howard Kunruether and Adam Rose, eds. Edard Elgar, 2004.

"Designing a Market for Tradable Emissions Permits," co-author Robert W. Hahn. In *Reform of Environmental Regulation*, Wesley Magat, ed. Lexington Books, 1982.

"Implementing Marketable Emissions Permits." *American Economic Review Papers and Proceedings* 72(2) (May 1982): 120-124.

"An Experimental Examination of Auction Mechanisms for Discrete Public Goods," co-authors John A. Ferejohn, Robert Forsythe and Thomas R. Palfrey. In *Research in Experimental Economics*, Vol. II, Vernon L. Smith, ed. JAI Press, 1982. Reprinted in *Experimental Foundations of Political Science*, Donald R. Kinder and Thomas R. Palfrey, eds. University of Michigan Press, 1993.

"Implementing Tradable Emissions Permits," co-author Robert W. Hahn. In *Reforming Social Regulation*, Leroy Graymer and Frederick Thompson, eds. Sage Publications, 1982.

"The Case Against the Balanced Budget Amendment: Comments on Aranson and Rabushka." In *The Economic Consequences of Government Deficits*, Laurence Meyer, ed. Kluwer-Nyhoff Publishing, 1983.

"The Feasibility of Marketable Emissions Permits in the U.S." In *Public Sector Economics*, Jorg Finsinger, ed. Macmillan Press, Ltd., 1983.

"Barriers to Implementing Tradable Air Pollution Permits: Problems of Regulatory Interactions," co-author Robert W. Hahn. *Yale Journal on Regulation* 1(1) (1983): 63-91.

"The Future of Telecommunication Regulation." In *Telecommunications Today and Tomorrow*, Eli Noam, ed. Harcourt Brace Jovanovich, 1983.

"The Political Foundations of Regulatory Policy." *Zeitschrift fur die gesamte Staatswissenschaft (Journal of Institutional and Theoretical Economics)* 139(3) (1983): 377-404. Reprinted in *Congress: Structure and Policy*, Mathew McCubbins and Terry Sullivan, eds. Cambridge University Press, 1987.

"The Regulation of Surface Freight Transportation: The Welfare Effects Revisited," co-author Ronald R. Braeutigam. *The Review of Economics and Statistics* 66(1) (1984): 80-87.

"Prospective Payment: Will It Solve Medicare's Financial Problem," co-author Alain C. Enthoven. *Issues in Science and Technology* 1(1) (1984): 111-116. Reprinted in Health Industry Today 48(3) (1985): 16-24.

"The Preferences of Policy Makers for Alternative Allocations of the Broadcast Spectrum," co-author Forrest Nelson. In *Antitrust and Regulation: Essays in Memory of John J. McGowan*, Franklin M. Fisher, ed. MIT Press, 1985.

"Government Regulatory Behavior: A Multidisciplinary Survey and Synthesis." In *Regulatory Policy and the Social Sciences*, Roger G. Noll, ed. University of California Press, 1985.

"Let Them Make Toll Calls!: A State Regulator's Lament." *American Economic Review Papers and Proceedings* 75(2) (1985): 52-56.

"State Regulatory Responses to Competition and Divestiture in the Telecommunications Industry." In *Antitrust and Regulation*, Ronald E. Grieson, ed. Lexington Books, 1986.

Scholarly Articles, cont'd

- "The Political and Institutional Context of Communications Policy." In *Marketplace for Telecommunications*, Marcellus S. Snow, ed. Longman, Inc., 1986.
- "Funding and Knowledge Growth: Comments." *Social Studies of Science* 16(1) (1986): 135-42.
- "Government R&D Programs for Commercializing Space," co-author Linda R. Cohen. *American Economic Review Papers and Proceedings* 76(2) (1986): 269-73.
- "Administrative Procedures as Instruments of Political Control," co-authors Mathew D. McCubbins and Barry R. Weingast. *Journal of Law, Economics and Organization* 3(2) (1987): 243-77. Abridged version in *State and Federal Administrative Law*, Arthur Earl Bonfield and Michael Asimow, eds., West Publishing, 1989. Reprinted in *Economic Regulation*, Paul Joskow, ed. Edward Elgar, 2000; *Regulation and Regulatory Processes*, Cary Coglianese and Robert Kagan, eds. Ashgate Publishing, 2007; *The Economics of Administrative Law*, Susan Rose-Ackerman, ed., Edward Elgar, 2007; *Rational Choice Politics*, Torun Dewan, Keith Dowling and Kenneth Shepsle, eds., Sage, 2009; *Institutional Law and Economics*, Pablo Spiller, ed., Edward Elgar, 2014.
- "Communications." In *The New Palgrave*, John Eatwell, Murray Milgat, and Peter Newman, eds. MacMillan, 1987.
- "Comment: Settlement Incentives and Follow-on Litigation." In *Private Antitrust Litigation*, Lawrence J. White, ed. MIT Press, 1988.
- "The Political Economy of NASA's Applications Technology Satellite Program," co-author Linda R. Cohen. In Space Applications Board, *Proceedings of a Symposium on Space Communications Research and Development*. National Research Council, 1988.
- "Economics, Politics and Government Research and Development," co-author Linda Cohen. In *Technology and Politics*, Michael E. Kraft and Norman J. Vig, eds. Duke University Press, 1988.
- "The Anticompetitive Uses of Regulation: *United States v. AT&T (1982)*," co-author Bruce M. Owen. In *The Antitrust Revolution*, John E. Kwoka, Jr., and Lawrence J. White, eds. Scott, Foresman, 1988.
- "The Economics of Sports Leagues." In *Law of Professional and Amateur Sports*, Gary A. Uberstine, ed. Clark Boardman, 1988.
- "Preface: Symposium on Telecommunications Demand." *Information Economics and Policy* 3(4) (1988): 275.
- "Telecommunications Regulation in the 1990s." In *New Directions in Telecommunications Policy*, Vol. I, Paula R. Newberg, ed. Duke University Press, 1989.
- "U.S. v. AT & T: An Interim Assessment," co-author Bruce M. Owen. In *Future Competition in Telecommunications*, Stephen P. Bradley and Jerry A. Hausman, eds. Harvard Business School Press, 1989.
- "Structure and Process, Politics and Policy: Administrative Arrangements and the Political Control of Agencies," co-authors Mathew D. McCubbins and Barry R. Weingast. *Virginia Law Review* 75(2) (March 1989): 431-482. Reprinted in: *The Political Economy of Regulation*, Thomas Lyon, ed., Edward Elgar, 2007; *Institutional Law and Economics*, Pablo Spiller, ed., Edward Elgar, 2014; *Public Administration Vol. II*, B. Guy Peters and Jon Pierre, eds., Sage Publications, 2014

Scholarly Articles, cont'd

"Economic Perspectives on the Politics of Regulation." In *Handbook of Industrial Organization*, Vol. II. Richard Schmalensee and Robert Willig, eds. North Holland Publishing Co., 1989. Reprinted in *Regulation and the Law*, Anthony I. Ogus, ed. Edward Elgar Publishing, 2001.

"Comment: Peltzman on Deregulation." *Brookings Papers on Economic Activity: Microeconomics* (1989): 48-58.

"Pricing of Telephone Services," co-author Susan Smart. In *After the Breakup*, Barry G. Cole, ed. Columbia University Press, 1990.

"Positive and Normative Models of Procedural Rights: An Integrative Approach to Administrative Procedures," co-authors Mathew D. McCubbins and Barry R. Weingast. *Journal of Law, Economics and Organization* 6 (1990): 307-332.

"Some Implications of Cognitive Psychology for Risk Regulation," co-author James Krier. *Journal of Legal Studies* 19 (June 1990): 747-779. Excerpts reprinted in *Foundations of the Economic Approach to Law*, Avery Weiner Katz, ed. Oxford University Press, 1998. Reprinted in *Behavioral Law and Economics*, Cass R. Sunstein, ed. Cambridge University Press, 2000.

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