

Timothy J. Brennan

Positions and Addresses:

Professor of Public Policy and Economics
School of Public Policy
University of Maryland, Baltimore County (UMBC)
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Citizenship: U.S.A.

Primary Teaching and Research Fields:

Antitrust, Regulation, Industrial Organization, Law and Economics, Energy Policy, Communications Policy

Additional Fields: Public Finance, Policy and Ethics, Environmental Economics, Mathematical Methods, Intellectual Property

Academic Background:

Ph. D., Economics, University of Wisconsin, August, 1978 (Dissertation: *On the Micro-foundations of Keynesian Macroeconomics*, R. Bryce Hool, advisor).

M. A., Economics, University of Wisconsin, May, 1976.

M. A., Mathematics, University of Wisconsin, May, 1975.

B. A., Mathematics, University of Maryland, December 1973 (high honors, honors in mathematics).

Honors: PURC Distinguished Service Award, Public Utility Research Center, University of Florida, 2013.

International Fellow, C.D. Howe Institute, Toronto, Ontario, Canada, 2010.

T. D. MacDonald Chair, Competition Bureau, Industry Canada, 2006.

Bearman First-Year Seminar Professor, UMBC, 2003-04.

EPCOR Distinguished Lecturer, University of Alberta, October 2001.

McGee Lecturer in Public Policy, Vanderbilt University, March 2000.

Gilbert White Fellow, Resources for the Future, 1995.

U.S. Department of Justice, Antitrust Division Award of Merit, 1985;

Meritorious Awards: 1982, 1984; Special Achievement Awards: 1979, 1980

Wisconsin Alumni Research Foundation Graduate Fellowships:

Mathematics, 1974-1975; Economics, 1976-1977;

Doctoral Dissertation in Economics, 1977-1978.

Valedictorian, University of Maryland, December 1973.

Positions Held:

1990-present: Professor, Public Policy and Economics, University of Maryland Baltimore County (associate professor 1990, tenured 1991, full professor 1993)

1995-present: Senior Fellow, Resources for the Future, Washington, DC

2010-present: Special Advisor, Brattle Group, Washington, DC

2015-present: Associate Faculty, Center for Research in Regulated Industries, Rutgers Business School

2014: Chief Economist, U.S. Federal Communications Commission

- 2006: T.D. MacDonald Chair in Industrial Economics,
Canadian Competition Bureau, Industry Canada
- 2003-2005: Staff consultant, Bureau of Economics, Federal Trade Commission
- 1996-1997: Senior Economist for Industrial Organization and Regulation, Council of Economic Advisers, Executive Office of the President, Washington, DC
- 1995: Gilbert White Fellow, Resources for the Future, Washington, DC
- 1986-1989: Associate Professor of Public Policy, Communication, and Economics,
Graduate School of Arts and Sciences, George Washington University
- 1978-1986: Economist, Antitrust Division, U. S. Department of Justice

Department of Justice Responsibilities: Primary Division economist in the areas of telecommunications, broadcasting, and intellectual property. Staff economist, *U. S. v. AT&T*, *U. S. v. Natl. Assn. of Broadcasters*, amicus briefs concerning ASCAP, NCAA, state action cases. Other major matters include those listed below under Official Publications. From 1986-1999, consulted to Division on a part-time staff basis on intellectual property, telecommunications industry structure, computer software practices, energy regulation, and broadcasting policy. Provided policy advice to antitrust and regulatory officials from Eastern Europe, Mexico, and other countries with developing market economies. Served as a contract consultant to the Division through UMBC, 1999-2000.

Professional Association Memberships:

- American Bar Association (associate member)
- American Economic Association
- Association for Public Policy Analysis and Management
- Association of Energy and Resource Economists
- Canadian Economics Association
- Environmental Law Institute (associate member)
- International Association for Energy Economics
- Society for Benefit-Cost Analysis
- Society for Economic Research on Copyright Issues
- U.S. Association for Energy Economics

Editorships:

- Co-editor, *Economic Inquiry*

Editorial Boards:

- Journal of Regulatory Economics*
- Communication Law and Policy*
- Information Economics and Policy*
- International Journal of the Economics of Business*

Refereeing:

- Agricultural and Resource Economics Review*, *American Economic Review*, Cambridge University Press, *Canadian Journal of Economics*, *Communication Law and Policy*, *Contemporary Economic Policy*, *Contemporary Policy Issues*, *Eastern Economic Review*, *Ecological Economics*, *Economic Inquiry*, *Economics and Philosophy*, Edward Elgar, *Energy*, *Energy Economics*, *Energy Efficiency*, *Energy Journal*, *Energy Policy*, *Energy Studies Review*, *Environment and Development Economics*, *Government and Policy*, *Growth and Change*, *Information Economics and Policy*, *International Journal of the Economics of Business*, *Journal of American History*, *Journal of Broadcasting and Electronic Media*, *Journal of Business Economics*, *Journal of Communication*, *Journal of Consumer Culture*, *Journal of Economic Education*, *Journal of Economic Issues*, *Journal of Economics and Management Strategy*, *Journal of Environmental Economics and Management*, *Journal of the European Economic As-*

sociation, Journal of Industrial Economics, Journal of Institutional Economics, Journal of Policy Analysis and Management, Journal of Political Economy, Journal of Public Economics, Journal of Regulatory Economics, Journal of Theoretical Politics, Land Economics, Management Science, MIT Press, Oxford University Press, Portal, Quarterly Journal of Economics, RAND Journal of Economics, Regulation, Research in Law and Economics, Research in the History of Economic Thought and Methodology, Resource and Energy Economics, Review of Industrial Organization, Review of Network Economics, Review of Social Economy, Routledge Publishing, Scottish Journal of Political Economy, Smith Richardson Foundation, Southern Economic Journal, Sustainability, University of Michigan Press, University of Minnesota Press, Utilities Policy, Wiley Encyclopedia for Operations Research and Management Science, Zeitschrift für Nationalökonomie.

Presentations:

U.S. Government: Council of Environmental Quality, Department of Agriculture, Department of Justice, Department of Transportation, Federal Trade Commission, Federal Communications Commission, Congressional staff, Agency for International Development, Department of Energy, Government Accountability Office, President's Economic Recovery Advisory Board, Office of Technology Assessment, Food and Drug Administration.

International Government: Australian Competition and Consumer Commission, Canadian Senate Standing Committee on Transport and Communications, Industry Canada—Competition Bureau, Costa Rica Commission for the Protection of Competition (COPROCOM), Mexico Secretariat for Communication and Transport, Mexico Competition Commission, Netherlands Embassy, New Zealand Embassy, Romanian Competition Council, Swedish Competition Authority (Konkurrensverket), United Kingdom Office of Fair Trading, Uzbekistan State Committee for Demonopolization and Competition.

Professional Associations: American Bar Association (Antitrust Section), Association of the Bar of the City of New York, American Economic Association, Association for Education in Journalism and Mass Communication, Association for Evolutionary Economics, Association for Institutional Thought, Association for Public Policy Analysis and Management, Association for Social Economics, Canadian Bar Association, Canadian Economics Association, Eastern Economic Association, Electronic Technicians Association, History of Economics Society, Industrial Organization Society, International Association of Energy Economists, International Network for Economic Method, International Telecommunications Society, National Association of State Utility Consumer Advocates, Society for Benefit-Cost Analysis, Society for Economic Research on Copyright Issues, Southern Economic Association, Transportation and Public Utilities Group, Vancouver Competition Policy Group, Western Economic Association International, U.S. Association for Energy Economics.

Institutional: American Enterprise Institute, AT&T Bell Laboratories, Brookings Institution, C. D. Howe Institute (Canada), Economists Inc., eSapience, Freedom Forum Media Studies Center, Institute for Policy Analysis (Australia), International Communications Forecasting Conference, Lincoln Institute of Land Policy, Maryland Clean Energy Technology Incubator, Mansfield Center for Pacific Affairs, MGF Webb (New Zealand), National Economists Club, National Research Council, Phoenix Center for Advanced Legal and Economic Policy Studies, Resources for the Future, Technology Policy Institute, Telecommunications Policy Research Conferences, TransAlta Corporation (Canada), Transpower NZ (New Zealand) World Bank.

U.S. Academic: Ball State University (Digital Policy Institute), City University of New York (Baruch College School of Public Affairs), Columbia University (Institute for Tele-Information), Emory University, George Mason University (Center for Public Choice, Law School, School of Public Policy, Learning in Retirement Institute), George Washington University (School of Law, Department of Economics), Georgetown University (Law School, Public Policy Institute, McDonough School of Business, Center for Business and Public Policy), Harvard University (John F. Kennedy School of Government, Harvard Law School), Johns Hopkins University

(Nitze School of Advanced International Studies, Center for Population Studies), Louisiana State University, Michigan State University (Institute for Public Utilities), Middle Tennessee State University, New York University School of Law (Institute for Policy Integrity), Northwestern University (Department of Communication Studies, Annenberg Washington Program), Oberlin College, Penn State (College of Earth and Mineral Sciences), Rutgers University (Advanced Workshops in Regulation and Public Utility Economics), University of California-Berkeley (UC Energy Institute), University of California-Davis (Institute of Government Affairs), University of California-Washington Center, University of Delaware (Center for the Study of Values), University of Florida (Public Policy Research Center), University of Maryland Baltimore County, University of Maryland-College Park, University of Maryland School of Law, University of Pennsylvania (Department of Economics, Annenberg School for Communication, Law School), University of Southern California (Annenberg School for Communication), University of Texas (Department of Economics, Law School), Vanderbilt University (Owen School of Business, Department of Economics), Virginia Polytechnic Institute, West Virginia University.

International Academic: Carleton University (Department of Economics), Curtin Graduate School of Business (Centre for Research in Applied Economics, Department of Economics and Finance, School of Public Policy), Deutsche Hochschule für Verwaltungswissenschaften Speyer (German University of Administrative Sciences-Speyer), Ecole Normale Supérieure (Paris School of Economics), European University Institute (Florence School of Regulation, Florence Competition Programme), Hong Kong Economic Association (Nankai University, Tianjin, China), Karlsruhe Institute of Technology (Telecommunications Economics Research Group), University of Alberta (School of Business), University of Auckland (School of Business), University of British Columbia (Sauder School of Business), University of Calgary (Van Horne Institute, Department of Economics).

Consultancies:

Brattle Group
 Cellular Telephone Industry Association
 Competition Bureau, Industry Canada
 Criterion Economics
 Energy Information Administration, U.S. Department of Energy
 Environmental Law Institute
 ERS Group
 Exeter Associates
 Federal Communications Commission
 International Law Institute
 Robinson, Curley and Clayton
 U. S. Postal Regulatory Commission (Public Representative)
 World Bank

Other Professional Activities:

Interviewee, CTFN, regarding AT&T/Time Warner merger (Jan. 8, 2018).
 Panelist, DOT-FAA Benefit-Cost Analysis Roundtable, Deregulation and Enabling Innovation: Spotlight on FAA and New Technologies and Industries, Department of Transportation, Washington, DC (Jul. 31, 2017).
 Panelist, “Deregulation of Energy Markets,” WYPR Midday, Baltimore, MD (Jul. 26, 2017).
 Panelist, Title II, Net Neutrality, and the Struggle for Balance in Broadband Regulation: A Policy Forum, Center for Business and Public Policy, McDonough School of Business, Georgetown University, Washington, DC (Jul. 12, 2017).
 Panelist, Consumer Protection Economics, Western Economic Association International, San Diego, CA (Jun. 27, 2017).

- Advisor, WEAI's 2017 Graduate Student Workshop, San Diego, CA, (Jun. 24-26, 2017).
- Panelist, "What to do about Title II?," Phoenix Center Policy Roundtable, Washington, DC (Jun. 14, 2017).
- Interviewee before Federal Communications Commission working group on the role of economists at the Commission, Washington, DC (Jun. 14, 2016).
- Panelist, What Do the Election Results Portend for Regulatory Policy, Southern Economic Association 86th Annual Conference, Washington, DC (Nov. 19, 2016).
- Panelist, Promoting Broadband Investment in the 21st Century, Phoenix Center 2016 Annual Telecoms Symposium, Washington, DC (Nov. 15, 2016).
- Expert Interview, The Role and Value of the U.S. Postal Monopoly, Physical Infrastructure Team, Government Accountability Office, Washington, DC. (Oct. 13, 2016).
- Panelist, "The FCC's Path to Populism: A Search for Relevancy in the Digital Age," George Washington University Public Policy Institute, Washington, DC (Jul. 11, 2016).
- Interviewee, Global Competition Review, on the potential role of environmental considerations in decisions whether to prosecute potential antitrust violations (Jun. 16, 2016).
- Participant, Anchoring and Black Swans: Reconsidering Risk Aversion and the Future of Commercial Space, Invitation-Only Experts Workshop, Resources for the Future, Washington, DC (Mar. 22, 2016).
- Panelist, "The Role of Benefit-Cost Analysis in Government Decisions," Society for Benefit-Cost Analysis 8th Annual Meeting, Washington, DC (Mar. 18, 2016).
- Participant, Joint RFF/Waseda Workshop on Sustainable Energy in US and Japan: The Role of Renewable Energy and Energy Efficiency, Washington, DC (Mar. 11, 2016).
- Interviewee, SNL Energy on relationship between competition in energy markets and emissions (Feb. 16, 2016).
- Panelist, "Regulatory Revival and its Effect on the Communications Industry," Phoenix Center 2015 Annual Telecoms Symposium, Washington, DC (Dec. 1, 2015).
- Panelist, Government Policy and Innovation, Resources for the Future and BASF, Washington, DC (Oct. 2, 2015).
- Interviewee, Sydney Morning Herald on net neutrality (Aug. 7, 2015).
- Organizing Committee, Telecommunications Policy Research Conference, 2015-16.
- Panelist, The Economics of Bargaining, DC Industrial Organization Conference, Washington, DC (March 6, 2015).
- Panelist, Roundtable with Agency Heads of Economics, Global Competition Review Live 4th Annual Antitrust Leaders Forum, Miami, FL (Feb. 6, 2015).
- Roundtable on research proposals on the economics of privacy/data security, George Mason University School of Law (Jan. 22-23, 2015).
- Interviewee, Bloomberg News re GrubHub-Seamless proposed merger (May 22, 2013).
- Associated Center Faculty, Center for Research on Regulated Industries, Rutgers Business School (2012-present).
- Co-Organizer, Conference on Postal and Delivery Economics, Center for Research in Regulated Industries, Rutgers University (2012-15).
- Invited Participant, Research Roundtable on the Economics of Privacy and Data Security, George Mason University School of Law, Arlington, VA (Dec. 12-13, 2012, Dec. 11-12, 2013, Mar. 7, 2014).

- Interviewee, The Morning Briefing Show with Tim Farley on the POTUS Channel for SiriusXM (Nov. 15, 2012).
- Invited Participant, Fifth Annual Conference on Antitrust Economics and Competition Policy, Searle Center, Northwestern University School of Law (Sep. 21-22, 2012).
- Energy Efficiency Roundtable, Sloan Foundation, New York, NY (Aug. 23-24, 2012).
- Reviewer, *Choice*, 2012-present.
- Interviewee, Financial Post (Toronto) on Canadian administrative payments for abuse of dominance law violations (May 11, 2012).
- Invited Participant, Second Annual Conference on Competition, Search, and Social Media, George Mason University School of Law, Arlington, VA (May 16, 2012).
- Interviewee, Fort-Worth Star Telegram, on Texas electricity markets (Apr. 11, 2012).
- Invited participant, Research Roundtable on *The Law & Economics of Search Engines and Online Advertising*, George Mason University School of Law, Arlington, VA (Nov. 3-4, 2011).
- Invited participant, Fourth Annual Conference on Antitrust Economics and Competition Policy, Northwestern University School of Law, Chicago, IL (Sept. 23-24, 2011).
- Public Comments Filed on Draft Merger Enforcement Guidelines, Canadian Competition Bureau (Aug. 31, 2011).
- Participant, C.D. Howe Institute Competition Policy Council meeting on foreign investment in telecommunications, Toronto, ON (via conference call, Jun. 17, 2011).
- Member, Competition Policy Council, C.D. Howe Institute, Toronto, Ontario, Canada, 2011-.
- Peer reviewer, draft *State of Maryland Long-Term Electricity Supply* (2011).
- Department of State Consultation with Mr. Viroslov Mircea, Romanian Competition Council (Jun. 8, 2011).
- Peer Reviewer, RAND Corporation, 2011.
- Interviewee, Electricity Decoupling and Outages, Platt's Electric Power Daily (Feb. 5, 2011).
- Participant, Maryland Public Service Commission Advanced Metering Infrastructure Working Group, 2010-2013.
- Interviewee, Net Neutrality vs. Minimum Quality Standards, German Public Radio (Nov. 22, 2010).
- Panelist, "Digital Communications, Economic Development and Policy Challenges," Digital Policy Institute, Indianapolis, IN (Oct. 15, 2010).
- International Fellow, C.D. Howe Institute, Toronto, Ontario, Canada, 2010-.
- Panelist, "Fair Pricing: A Conference on Ethics and Dynamic Pricing," Rutgers Business School (Apr. 9, 2010).
- Keynote Speaker, "U.S. Energy Policy in Transition," Robert F. Lanzillotti Public Policy Research Center, Warrington College of Business Administration, University of Florida, Gainesville, FL (Mar. 18, 2010).
- Proposal Reviewer, Energy Efficiency Community Block Grant Program, U.S. Department of Energy (Mar. 2010)
- Interviewee, WYPR-FM, on Maryland as a Cybersecurity Hub (Feb. 5, 2010).
- Moderator, "The Role of Prizes in Innovation and Entrepreneurship," First Wednesday Seminar, Resources for the Future, Washington, D.C. (Dec. 2, 2009).
- Energy efficiency presentation and discussion, White House Council on Environmental Quality (Oct. 6, 2009).

- Energy efficiency presentation and discussion (teleconference), President's Economic Recovery Advisory Board (Sep. 2, 2009).
- Keynote Speaker, Australian Competition and Consumer Commission 10th Regulatory Conference, Surfer's Paradise, Queensland, Australia (July 30, 2009).
- Visiting Fellow, School of Economics and Finance, Curtin Business School, Perth, WA, Australia (July 20-25, 2009).
- Panelist, "Climate Change, Cap-and-Trade, Renewable Electricity and Efficiency Mandates: How Do They Fit Together?" Technology Policy Institute, Rayburn House Office Building, Washington, DC (June 12, 2009).
- Adviser, Environmental Law Institute, "Estimating U.S. Government Subsidies to Energy Sources: 2002 – 2008," http://www.elistore.org/Data/products/d19_07.pdf (2009)
- Member, Maryland Comprehensive Energy Plan Advisory Committee, 2009-10 (Annapolis public meeting Dec. 1, 2009).
- Panelist, "Economic Standards for Considering Abuse of Dominance: Canadian and U.S. Perspectives," Canadian Bar Association, National Competition Law Section, Economics Committee and American Bar Association, Section of Antitrust Law, Economics Committee and International Committee (via teleconference, May 27, 2009).
- Interview, Congressional Quarterly, antitrust policy and removing immunity for freight rail (May 27, 2009).
- Featured Interview, Maryland electricity policy, Maryland Commons, http://marylandcommons.com/editions/21/content_items/95, (May 4, 2009).
- Electricity transmission economics interagency meeting, White House Council on Environmental Quality (May 11, 2009).
- Interviewed re President Obama's Address to the Joint Session of Congress regarding energy policy, Greenwire (Feb. 24, 2009).
- Discussant, FTC Hearings on Resale Price Maintenance, Federal Trade Commission, Washington, DC (Feb. 19, 2009).
- Interviewed re purchase of Constellation Energy, WYPR radio (Sep. 23, 2008).
- Chair, Panel on Current Issues in Canadian Competition Policy, Phelps Centre for the Study of Government and Business (University of British Columbia), Canadian Economics Association, Vancouver, British Columbia (Jun. 6, 2008).
- Moderator, "Curbing Electricity Demand: Who, How and Why," First Wednesday Seminar, Resources for the Future, Washington, D.C. (Apr. 9, 2008).
- Expert Reviewer, "Federal Financial Interventions and Subsidies in Energy Markets 2007," Energy Information Administration, U.S. Department of Energy (Feb. 2008).
- Member, Working Group, Demand-Side Management Cost Benefit Analysis, Maryland Public Service Commission (Jan. 2008).
- Panelist, Electricity Stakeholders Outreach Meeting, Maryland Energy Administration, State House, Annapolis, MD (Sep. 5, 2007).
- Interviewee, "Greater Baltimore Committee: Issues and Answers," Comcast News Channel (July 29, 2007).
- Panelist, Maryland Energy Summit, State Senate Office Building, Annapolis, MD (July 25, 2007).
- Panelist, "Can Antitrust Be Forward Looking?" Federal Trade Commission, Washington, DC, May 24, 2007.

- Panelist, “Predatory Buying,” U.S. Department of Justice and Federal Trade Commission Joint Hearings on Section 2 Single Firm Conduct, Washington, DC, June 22, 2006.
- Panelist, “Holistic Approaches to Competition Enforcement,” United Kingdom Office of Fair Trading, London, England, June 20, 2006.
- Consultant, Telecommunications Policy Rule and Local Regulatory Forbearance, Competition Bureau, Industry Canada, Gatineau, Quebec, 2005.
- Invited Participant, “The Theoretical and Empirical Analysis of Bundling,” George Mason University School of Law, May 20, 2005.
- Regulatory Expert on Natural Monopolies and Telecommunications, Technical Assistance to the Republic of Uzbekistan for Institutional Strengthening of the State Committee on Demonopolization and Competition Development, International Law Institute, 2004-05.
- Chair, Antitrust Enforcement Panel, International Industrial Organization Conference, Atlanta, GA, Apr. 9, 2005.
- Chair, Telecommunications Policy Panel, International Industrial Organization Conference, Chicago, IL, Apr. 24, 2004.
- Participant, “Electricity Workshop—Security of Supply: Operating Reserves and Capacity Markets, Transmission and Interconnection, and Demand Response,” Royal Netherlands Embassy, Washington, DC, March 9-10, 2004.
- Energy Information Administration, U.S. Department of Energy, Transmission Data Advisory Group, 2004.
- Proposal Reviewer, National Science Foundation: Programs in Economic, Ethics and Value Studies, Law and Social Policy, Human and Social Dynamics, 1992, 1996, 1999, 2000, 2004.
- Advisory Committee, Retail Electricity Deregulation Index, Center for the Advancement of Energy Markets, 2000-04.
- Interviewee, CBC Radio “Ottawa Morning,” regarding 2003 blackout, Aug. 19, 2003.
- Reviewer, Electric Power Research Institute “Framework for the Future” Report, May 2003.
- Default Electricity Provider Forum, Center for the Advancement of Energy Markets, 2002-2003.
- Chair, “O Kilowatts, Where Art Thou” Panel, Association for Public Policy Analysis and Management, Dallas, TX, Nov. 8, 2002.
- Panelist, Broadband Forum, National Telecommunications and Information Administration, U.S. Department of Commerce, Oct. 12, 2001.
- EPCOR Distinguished Lecturer, University of Alberta, Edmonton, Alberta, Oct. 4, 2001.
- McGee Lecturer in Public Policy, Vanderbilt University, March 1, 2001.
- Interviewee, *De Zeit*, Jan. 25, 2001.
- Interviewee, California electricity deregulation, TV2/Danmark, Feb. 7, 2001.
- Advisory Committee, Federal Communications Commission “Connecting the Globe” Project, 2000.
- National Association of Regulatory Utility Commissioners Uniform Business Practices Workshop, March 3-4, 2000.
- Report Reviewer, National Research Council, Board on Infrastructure and the Constructed Environment, 1999.
- Proposal Reviewer, Smith Richardson Foundation, 1998.
- Interviewee, U.S. telecommunications policy, China Television (Taiwan), Jun. 25, 1998.

Presenter, "Overview of Electricity Competition Policy Issues," League of Women Voters, Vineyard Haven, MA, Sep. 21, 1997.

Organizing Committee, Telecommunications Policy Research Conference, 1994-96.

Advisor, Mexico Secretariat for Communications and Transport and Mexico Competition Commission, Mexico City, Mexico, August 29-30, 1995.

Advisory Panel, *Wireless Technologies and the National Information Infrastructure*, Office of Technology Assessment, 1994-95.

Advisory Panel, Rights for Electronic Access to and Delivery of Information (READI) Program, Coalition for Networked Information, 1993-95.

Socioeconomics Grant Review Panel, Environmental Protection Agency, 1992-94.

Advisor, Slovak Antimonopoly Office, Bratislava, Slovak Republic, July 12-13, 1993.

Reviewer and Contributor, Office of Technology Assessment reports: *Copyright and Home Copying*, 1989; *Global Standards*, 1992.

Panelist, *Pro & Con*, WHMM-TV, Washington, DC, Jul. 24, 1989.

Selection Committee, Rockefeller Prize for Non-Academically Affiliated Philosophers, American Philosophical Association, 1987, Chair, 1988.

Workshop on Ethics and Public Policy, Washington College, Summer 1980.

Other Teaching Experience:

Lecturer on Energy Efficiency and Dynamic Pricing, Institute for Public Utilities Advanced Regulatory Studies Program, Michigan State University, Oct. 1-2, 2009.

Lecturer on Natural Monopoly Regulation and Telecommunications Policy, State Committee on Demonopolization and Competition Development, Tashkent, Uzbekistan, Jan. 14-18, 2005.

Lecturer, Post-Privatization: Managing the Challenge, International Law Institute, Washington, DC, Jun. 11, 2004, Oct. 14, 2005.

Lecturer, Georgetown Public Policy Institute, Georgetown University, Nov. 2003.

Lecturer, Microeconomics Refresher Course, World Bank, Washington, DC, 1999.

Lecturer, Economic Regulation, Washington Campus Summer MBA Program, Georgetown University, Washington, DC, 1996.

Lecturer, Regulatory Economics and Telecommunications Policy in Developing Market Economies, International Law Institute, Washington, DC, 1994.

Lecturer, United States Telecommunications Training Institute, Washington, DC, 1989-94.

Lecturer and Panelist, Annenberg Washington Program Communications Faculty Workshops, 1988-1990, 1993.

Lecturer, Introductory and Intermediate Microeconomics for Attorneys in the Antitrust Division, U. S. Dept. of Justice, Spring 1981-Spring 1982.

Teaching Assistant, Graduate Microeconomic Theory, University of Wisconsin, Madison, Spring 1977 ("Excellent" rating received).

Co-teacher, Institutional Economics, University of Wisconsin, Madison, Spring 1977.

Leader, Seminar on Nicholas Georgescu-Roegen's *The Entropy Law and the Economic Process*, University of Wisconsin, Madison, Summer 1977.

Other Research Experience:

Research Assistant in Education and Job Migration, Institute for Research on Poverty, University of Wisconsin, Madison, August 1975-August 1976.

Programmer and Research Assistant in Plasma Physics, Institute for Fluid Dynamics and Applied Mathematics, University of Maryland, College Park, October 1970–August 1974.

PUBLICATIONS

Books:

Alternating Currents: Electricity Markets and Public Policy (with Karen Palmer and Salvador Martinez), Washington, DC: Resources for the Future (2002).

A Shock to the System: Restructuring America's Electricity Industry (with Karen Palmer, Raymond Kopp, Vito Stagliano, Alan Krupnick, and Dallas Burtraw), Washington: Resources for the Future (1996).

Monographs:

The Supply Chain and Industrial Organization of Rare Earth Materials: Implications for the U.S. Wind Energy Sector (with Jhih-Shyang Shih, Joshua Linn, Joel Darmstadter, Molly K. Macauley, and Louis Preonas), Washington: Resources for the Future (2012).

Generating the Benefits of Competition: Challenges and Opportunities in Opening Electricity Markets, Toronto: C. D. Howe Institute, Commentary 260 (April, 2008).

The California Electricity Experience, 2000-2001: Education or Diversion? Washington: Resources for the Future (2001).

Edited Collections:

The Contribution of the Postal and Delivery Sector: Between E-Commerce and E-Substitution (co-edited with Pier Luigi Parcu and Victor Glass), New York: Springer (2018).

The Changing Postal and Delivery Sector: Towards a Renaissance (co-edited with Michael Crew and Pier Luigi Parcu), New York: Springer (2017).

The Future of the Postal Sector in a Digital World (co-edited with Michael Crew), New York: Springer, (2016).

Postal and Delivery Innovation in the Digital Economy (co-edited with Michael Crew), New York: Springer (2015).

The Role of the Postal and Delivery Sector in a Digital Age (co-edited with Michael Crew) Cheltenham, UK: Edward Elgar (2014).

“Symposium: Recent Competition Issues in Telecommunications,” *Antitrust Bulletin*, vol. 40, no. 3 (1995).

Articles:

“The Rise of Behavioral Economics in Regulatory Policy: Rational Choice or Cognitive Limitation?,” *International Journal of the Economics of Business*, vol. 25, no. 1 (2018): 97-108.

“Should Antitrust Go Beyond ‘Antitrust?’,” *Antitrust Bulletin*, vol. 63, no. 1 (2018): 49-64

“Consumer’s Guide to Regulatory Impact Analysis: Ten Tips for Being an Informed Policymaker” (with Susan Dudley and 17 co-authors), *Journal of Benefit Cost Analysis*, vol. 8, no. 2 (2017): 187-204.

“The Post-Internet Order Broadband Sector: Lessons from the Pre-Open Internet Order Experience,” *Review of Industrial Organization*, vol. 50, no. 4 (2017): 469-486. doi:10.1007/s11151-016-9551-y.

“Behavioral Economics and Energy-Efficiency Regulation,” *Network*, issue 59 (2016): 1-8.

- “Ahead of His Time: The Singular Contributions of Richard Markovits,” *Antitrust Bulletin*, vol. 61, no. 1 (2016): 109-20.
- “Holding Distribution Utilities Liable for Outage Costs,” *Energy Economics*, vol. 48, no. 1 (2015): 89-96.
- “Economics at the FCC, 2013-14,” (with Allison Baker, Jack Erb, Omar Nayeem, and Aleksandr Yankelevich), *Review of Industrial Organization*, vol. 45, no. 4 (2014): 345-78.
- “Is Complexity in Antitrust a Virtue? The Accuracy-Simplicity Tradeoff,” *Antitrust Bulletin*, vol. 59, no. 4 (2014): 827-53.
- “Behavioral Economics and Policy Evaluation,” *Journal of Benefit-Cost Analysis*, vol. 5, no. 1 (2014): 89-109.
- “Mitigating Monopoly or Preventing Discrimination: Comparing Antitrust to Regulatory Goals in the Interstate Commerce Act,” *Review of Industrial Organization* 43: (2013): 103-119.
- “Energy Efficiency Resource Standards: Economics and Policy” (with Karen Palmer), *Utilities Policy*, vol. 25 (2013): 58-68.
- “Putting a Floor on Energy Savings: Comparing State Energy Efficiency Resource Standards” (with Karen Palmer, Samuel Grausz, and Blair Beasley), *Utilities Policy* vol. 25 (2013): 43-57.
- “Energy Efficiency Policy Puzzles,” *Energy Journal*, vol. 34, no. 2 (2013): 1-25.
- “Should Utilities Be in the Energy Efficiency Business?” *IAEE Energy Forum* (Winter 2013): 9-14.
- “Prizes Versus Patents: A Comment on Jonathan Adler’s *Eyes on a Climate Prize: Rewarding Energy Innovation to Achieve Climate Stabilization*,” *Environmental Law Reporter News and Analysis* 42 (2012): 10719-10721.
- “Network Neutrality or Minimum Quality? Barking Up the Wrong Tree—and Finding the Right One,” *CPI Antitrust Chronicle* (March 2012 (2)): 2-9.
- “Getting Exclusion Cases Right: *Intel* and Beyond,” *CPI Antitrust Chronicle* (December 2011 (1)): 2-9.
- “Revise or Start Anew? Pondering the Google Books Rejection,” *CPI Antitrust Chronicle* (June 2011 (2)): 1-7.
- “‘High-Tech’ Antitrust: Incoherent, Misguided, Obsolete, or None of the Above? Comments on Crandall-Jackson and Wright,” *Review of Industrial Organization*, vol. 38, no. 4 (2011): 423-33.
- “Energy Efficiency and Renewables Policies: Promoting Efficiency or Facilitating Monopsony?” *Energy Policy*, vol. 39, no. 7 (2011): 3954-65.
- “The Challenges of Climate Policy,” *Australian Economic Review*, vol. 43, no. 3 (2010): 225–39.
- “Decoupling in Electric Utilities,” *Journal of Regulatory Economics*, vol. 38, no. 1 (2010): 49-69.
- “Optimal Energy Efficiency Policies and Regulatory Demand-Side Management Tests: How Well Do They Match?” *Energy Policy*, vol. 38 (2010): 3874-85.
- “Public-Private Co-Production of Risk: Government Indemnification of the Commercial Space Launch Industry” (with Carolyn Kousky and Molly Macauley), *Risk, Hazards & Crisis in Public Policy*, vol. 1, no. 1 (2010): 117-46, doi: 10.2202/1944-4079.1012.
- “Network Effects in Infrastructure Regulation: Principles and Paradoxes,” *Review of Network Economics*, vol. 8, no. 4 (2009): 279-301.
- “The Proposed Google Book Settlement: Assessing Exclusionary Effects,” *Global Competition Policy* (Oct. 2009, Release Two): 1-9.

- “Behavioral Economics and Merger Enforcement: A Speculative Guide,” *Threshold: American Bar Association Mergers and Acquisitions Committee*, vol. 9, no. 2 (2009): 21-29.
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- “Energy Efficiency Resource Standards: Economics and Policy” (with Karen Palmer), Resources for the Future Discussion Paper 12-10 (February 2012).
- “Energy Efficiency Policy: Surveying the Puzzles,” Resources for the Future Discussion Paper 11-27 (May 2011).
- “Prizes, Patents and Technology Procurement: A Proposed Analytical Framework” (with Molly Macauley and Kate Whitefoot), RFF Discussion Paper 11-21 (May 2011 Resources for the Future).
- “Net Neutrality or Minimum Quality Standards: Network Effects vs. Market Power Justifications,” (June 8, 2010), available at SSRN: <http://ssrn.com/abstract=1622226>.
- “More than a Wing and a Prayer: Government Indemnification of the Commercial Space Launch Industry” (with Carolyn Kousky and Molly Macauley), Resources for the Future Discussion Paper 09-38 (September 2009).

- “The Challenges of Climate for Energy Markets,” Resources for the Future Discussion Paper 09-32 (September 2009).
- “Network Effects as Infrastructure Challenges Facing Utilities and Regulators,” ACCC Regulatory Conference, Conference papers/presentations, Session 1 (July 2009).
- “Energy Efficiency: Efficiency or Monopsony?” Resources for the Future Discussion Paper 09-20 (May 2009).
- “Optimal Energy Efficiency Policies and Regulatory Demand-Side Management Tests: How Well Do They Match?” Resources for the Future Discussion Paper 08-46 (January 2009).
- “Is the Benefit of Reserve Requirements in the ‘Reserve’ or the ‘Requirement?’” Resources for the Future Discussion Paper 08-33 (September 2008).
- “Night of the Living Dead’ or ‘Back to the Future?’ Electric Utility Decoupling, Reviving Rate-of-Return Regulation, and Energy Efficiency,” Resources for the Future Discussion Paper 08-27 (August 2008).
- “Electricity Markets and Energy Security: Friends or Foes,” Resources for the Future Discussion Paper 07-46 (2007).
- “Saving Section 2: Reframing Monopolization Law,” AEI-Brookings Joint Center for Regulatory Studies Related Publication 05-27 (2005).
- “Competition as an Entry Barrier? Consumer and Total Welfare Effects of Bundling,” AEI-Brookings Joint Center for Regulatory Studies Related Publication 05-08 (2005).
- “State and Federal Roles in Facilitating Electricity Competition: Legal and Economic Perspectives in the Electricity Sector,” Harvard Electricity Policy Group, Kennedy School of Government, Harvard University (2004).
- “Do Easy Cases Make Bad Law? Antitrust Innovations or Missed Opportunities in *United States v. Microsoft*,” AEI-Brookings Joint Center for Regulatory Studies Related Publication (2002).
- “Checking for Market Power in Electricity: The Perils of Price-Cost Margins,” Institute for Policy Analysis (Melbourne, VIC, Australia), (2002).
- “Vertical Market Power” as Oxymoron: Getting Convergence Mergers Right,” Resources for the Future Discussion Paper 01-39 (2001).
- “The Economics of Competition Policy: Recent Developments and Cautionary Notes in Antitrust and Regulation,” Resources for the Future Discussion Paper 00-07 (2000).
- “Do Lower Prices for Polluting Goods Make Environmental Externalities Worse?” Resources for the Future Discussion Paper 99-40 (1999).
- “Demand-Side Management Programs Under Retail Electricity Competition,” Resources for the Future Discussion Paper 99-02 (1998).
- “Transforming Power Markets: The Clinton Administration’s ‘Comprehensive Electricity Comprehension Plan,’” Resources for the Future, (1998).
- “Enforcing Environmental Regulation: Implications of Remote Sensing Technology,” (with Molly K. Macauley), Resources for the Future Discussion Paper 98-33 (1998).
- “Making Sense of the Telecommunications Act of 1996,” Center for Research on Telecommunications Policy Working Paper CRTP-34, Haas School of Business, University of California, Berkeley (1996).
- “Is Cost-of-Service Regulation Worth the Cost?” Economic Analysis Group Discussion Paper 93-9, Antitrust Division, U.S. Dept. of Justice (1993).

- “Market Failure and Public Policy Toward Telecommunications Infrastructures,” Office of Technology Assessment, Washington, DC (1993).
- “Moral Rights, Public Policy Debate, and Right Holder Inalienability,” Graduate Institute for Policy Education and Research Working Paper 1988-6, George Washington University (1988).
- “Capping ‘Average’ Prices of Regulated Multiproduct Firms,” Department of Economics, Economics Discussion Paper D-8718, George Washington University, (1987).
- “The ‘Fairness Doctrine’ in Broadcasting: Philosophical and Economic Perspectives,” Economics Discussion Paper D-8709, Department of Economics, George Washington University (1987).
- “Cross-Subsidization and Discrimination by Regulated Monopolists,” Economic Analysis Group Discussion Paper 87-2, Antitrust Division, U.S. Dept. of Justice (1987) [presented, Southern Economic Association meetings, Nov. 23, 1987].
- “Liability Rules and Quality Choice: Are There Too Many BMWs on The Road?” Economics Discussion Paper D-8704, Department of Economics, George Washington University (1987).
- “Taxing Home Audio Taping,” Economic Analysis Group Discussion Paper 86-6, Antitrust Division, U.S. Dept. of Justice (1986).

SELECTED PRESENTATIONS

2011 – Present:

- “Behavioral Economics in Regulatory Policy,” 37th Eastern Conference on Advanced Regulatory Economics, Center for Research in Regulated Industries, Ellicott City, MD (June 6, 2018).
- “Incentive-Based Regulation as Information-Conserving Regulation,” Advanced Workshop in Regulation and Competition -- Postal Workshop, Center for Research in Regulated Industries, Rutgers Business School, Washington, DC (April 13, 2018).
- “Behavioral Economics in BCA: Measuring Unrecognized Benefits,” Society for Benefit-Cost Analysis 10th Annual Meeting, Washington, DC (March 15, 2018).
- “Inducing Optimal Quality Under Price Caps: Why, How, and Whether,” Advanced Workshop in Regulation and Competition, Center for Research in Regulated Industries, Rutgers Business School, Newark, NJ (January 12, 2018), 26th Annual Postal and Delivery Economics Conference, Florence School of Regulation, Split, Croatia (June 1, 2018); 37th Eastern Conference on Advanced Regulatory Economics, Center for Research in Regulated Industries, Ellicott City, MD (June 7, 2018).
- “Open Internet” to “Internet Freedom”: How We Got Into This Mess, and (Maybe) How to Get Out Of It”, Advanced Workshop in Regulatory Economics, Center for Research in Regulated Industries, Rutgers Business School, Newark, NJ (Nov. 17, 2017)
- “Should antitrust break with the past?” Anti-Trust and Anti-Globalization, Second FCP Annual Conference, European University Institute, Florence, Italy (Oct. 21, 2017).
- “Michael Crew’s (and Paul Kleindorfer’s) Scholarly Contributions to the CRRRI Postal Conferences, 1990- 2012,” 25th Conference on Postal and Delivery Economics, Florence School of Regulation, Barcelona, Spain (May 25, 2017); 36th Eastern Conference in Advanced Regulatory Economics, Center for Research in Regulated Industries, Rutgers Business School, Annapolis, MD (May 31, 2017); 30th Western Conference in Advanced Regulatory Economics, Center for Research in Regulated Industries, Rutgers Business School, Monterey, CA (Jun. 28, 2017).
- “Non-Academic Employment Opportunities,” Insights from WEAI’s 2017 Graduate Student Workshop, Western Economic Association International, San Diego, CA (Jun. 26, 2017).

- “Usefulness of ‘Value of Statistical Life’ in the Commercial Space Context: Limited, But Still Relevant”, Society for Benefit Cost Analysis 9th Annual Conference, Washington, DC (Mar. 17, 2017); Benefit-Cost Analysis: Advancing Analysis Workshop, Office of Risk Assessment and Cost-Benefit Analysis, U.S. Department of Agriculture, Washington, DC (Sep. 7, 2017).
- “NARUC vs. NYPS”, Advanced Workshop in Regulation and Competition, Center for Research in Regulated Industries, Rutgers Business School, Newark, NJ (Nov. 18, 2016); 30th Western Conference in Advanced Regulatory Economics, Center for Research in Regulated Industries, Rutgers Business School, Monterey, CA (Jun. 29, 2017).
- “Competitive Electricity Pricing and Power Market Reform,” Energy System Transformation Workshop 2016: Toward a Sustainable and Healthy Energy System in China, Rock Environment and Energy Institute, Beijing, China (via video) (October 20, 2016).
- “Merger Conditions,” Rutgers University Center for Research in Regulated Industries, 35th Eastern Conference in Advanced Regulatory Economics, Shawnee-on-Delaware, PA (May 11, 2016); Rutgers University Center for Research in Regulated Industries, 29th Western Conference in Advanced Regulatory Economics, Monterey, CA (Jun. 22, 2016).
- “How Much Relevance Does Reality Imply? (Re)Considering the Endowment Effect,” Society for Benefit Cost Analysis 8th Annual Conference, Washington, DC (Mar. 18, 2016); Canadian Economic Association Meetings, Ottawa, ON, CA (Jun. 4, 2016).
- “The 2015 Open Internet Order: Administrative Law Questions,” Center for Research in Regulated Industries, Rutgers Business School, Newark, NJ (Jan. 15, 2016).
- “The Post-Internet Order Broadband Sector: Lessons from the Pre-Open Internet Order Experience,” Symposium: The Future of the Internet Ecosystem in a Post-Open Internet Order World, Technology Policy Institute and the University of Pennsylvania Law School’s Center for Technology, Innovation and Competition, Washington, DC (Jan. 8, 2016); Rutgers University Center for Research in Regulated Industries, 34th Eastern Conference in Advanced Regulatory Economics, Shawnee-on-Delaware, PA (May 12, 2016); Advanced Analytical Consulting Group (webinar, Sep. 7, 2016).
- “Ahead of His Time: The Singular Contributions of Richard Markovits,” University of Texas Law School, Austin, TX (Oct. 16, 2015).
- “Government Policy and 5G Innovation,” The Innovation and Engineering Dynamics of the Digital Economy: Economic Transformation and Expansion Enabled by 5G, Georgetown Center for Business and Public Policy, Georgetown University, Washington, DC (Oct. 14, 2015).
- “Current U.S. Regulatory Issues,” ACCC/AER Regulation Conference 2015, Brisbane, QLD, Australia (Aug. 6, 2015).
- “Opening the ‘Open Internet,’” Rutgers University Center for Research in Regulated Industries, 34th Eastern Conference in Advanced Regulatory Economics, Shawnee-on-Delaware, PA (May 13, 2015); FSR Communication and Media Annual Conference, Florence School of Regulation, Florence, Italy (May 29, 2015); Resources for the Future, Washington, DC (June 11, 2015); Rutgers University Center for Research in Regulated Industries, 28th Western Conference in Advanced Regulatory Economics, Monterey, CA (June 24, 2015); ACCC/AER Regulation Conference 2015, Brisbane, QLD, Australia (Aug. 6, 2015); ACCC Legal and Economic Section, Melbourne, VIC, Australia (Aug. 11, 2015); University of Maryland, Baltimore County, Catonsville, MD (Sep. 24, 2015); Economic Analysis Group, Antitrust Division, U.S. Department of Justice, Washington, DC (Nov. 10, 2015).
- “Storage Market and Policy Issues,” Storage, Renewables and the Evolution of the Grid Symposium, MIT Energy Initiative, Cambridge, MA (May 1, 2015).

- “Policy Aspects of Time-Variant Pricing (TVP) of Electricity,” On the REV Agenda: The Role of Time-Variant Pricing, New York Department of Public Service, Environmental Defense Fund and Institute for Policy Integrity—NYU School of Law, New York, NY (Mar. 31, 2015).
- “Price Cap Regulation with Declining Demand,” CRRI/Rutgers: Prospects for Reforming the Postal Sector, Washington, DC (Mar. 27, 2015); Rutgers University Center for Research in Regulated Industries, 34th Eastern Conference in Advanced Regulatory Economics, Shawnee-on-Delaware, PA (May 15, 2015); Rutgers University Center for Research in Regulated Industries, 28th Western Conference in Advanced Regulatory Economics, Monterey, CA (June 25, 2015).
- “Does Benefit-Cost Analysis Solve the Right Problem?” Society for Benefit-Cost Analysis Seventh Annual Conference, Washington, DC (March 19, 2015).
- Panel discussion on the economics of bargaining, DC Industrial Organization Conference 2015, Washington, DC (Mar. 6, 2015).
- “Bidding for Spectrum: The Absence of a ‘Foreclosure Premium,’” Center for Research in Regulated Industries, Rutgers Business School, Newark, NJ (Jan. 16, 2015); Rutgers University Center for Research in Regulated Industries, 34th Eastern Conference in Advanced Regulatory Economics, Shawnee-on-Delaware, PA (May 14, 2015).
- “Is Behavioral Economics ‘Economics?’” Office of Planning, U.S. Food and Drug Administration, White Oak, MD (Oct. 1, 2014); Department of Economics, Emory University, Atlanta, GA (Oct. 9, 2014).
- “Economic Observations on Cybersecurity Policy,” Workshop on the Economics of Information Security, Department of Homeland Security and Penn State University, State College, PA (Jun. 25th, 2014).
- “Exclusion via Conditional Pricing: Keeping it Simple,” Federal Trade Commission/Department of Justice Workshop on Conditional Pricing Practices, Washington, DC (Jun. 23rd, 2014).
- Keynote, “A Regulator’s Dilemma: Policy in an Age of Disruption,” Center for Business and Public Policy, Georgetown University, Washington, DC (Jun. 17th, 2014).
- “Energy Efficiency Policy: Does it conserve? Who makes the choices? Can winners compensate losers”, Science, Technology and Environmental Policy Program, Woodrow Wilson School, Princeton University, Princeton, NJ (Mar. 24, 2014).
- “Ethical Rights in Policy Assessment: The Role and Necessity of Inalienability,” Society for Benefit-Cost Analysis, Sixth Annual Conference, Washington, DC (March 13, 2014).
- “The FCC: From ‘Regulatory Agency’ to ‘Granting Agency?’” National Exchange Carrier Association NECA EXPO, Academic Perspective on Regulatory Reform, Las Vegas, NV (Nov. 13, 2013).
- “An Expanded Distribution Utility Business Model: Win-Win, or Win-Maybe,” Trans-Atlantic Infraday, Federal Energy Regulatory Commission, Washington, DC (Nov. 8, 2013), Center for Research in Regulated Industries, Rutgers Business School, Newark, NJ (Jan. 8, 2014), Rutgers University Center for Research in Regulated Industries, 33rd Eastern Conference in Advanced Regulatory Economics, Shawnee-on-Delaware, PA (May 16, 2014).
- “Using Executive Orders or Legislation for Clean Energy Policy: Framing the Question,” Workshop on Accelerating Deployment of Clean Energy Technologies, National Academy of Sciences, Washington, DC (Jul. 26, 2013).
- “‘Economics of Law’ Insights into Cybersecurity Policy,” The Incentives and Regulation of Cybersecurity, Center for Business and Public Policy, Georgetown University, Washington, DC (Jun. 13, 2013).

- “Complexity in Antitrust: The Accuracy-Simplicity Tradeoff,” Antitrust as an Interdisciplinary Field: Insights from Economics and Business Strategy, American Antitrust Institute 2013 Symposium, Washington, DC (Jun. 11, 2013).
- “Gross Substitutes vs. Marginal Substitutes: Implications for Market Definition in the Postal Sector,” CRRRI Workshop in Regulatory Economics: The Future of USPS, Washington, DC (Apr. 12, 2013); 21st Conference on Postal and Delivery Economics, Portmarnock, County Fingal, Ireland (Jun. 1, 2013); Federal Communications Commission, Washington, DC (Jul. 9, 2013).
- “Energy Efficiency Policy: The Role of Consumer Error,” 40th Annual PURC Conference, Public Utility Research Center, Warrington College of Business Administration, University of Florida, Gainesville, FL (Feb. 13, 2013); Center for Research in Regulated Industries, Rutgers Business School, Newark, NJ (Jan. 8, 2014).
- “Whither the FCC?” Phoenix Center for Advanced Legal and Economic Policy Studies, 2013 Annual U.S. Telecoms Symposium, Washington, DC (Jan. 3, 2013).
- “Holding Distribution Utilities Liable for Outage Costs: An Economic Look,” National Association of State Utility Consumer Advocates, Baltimore, MD (Nov. 12, 2012); Center for Research in Regulated Industries, Rutgers Business School, Newark, NJ (Nov. 16, 2012); Rutgers University Center for Research in Regulated Industries, 32nd Eastern Conference in Advanced Regulatory Economics, Shawnee-on-Delaware, PA (May 16, 2013); 11th International Industrial Organization Conference, Boston, MA (May 18, 2013).
- “Behavioral Economics and Policy Evaluation,” Association for Public Policy Analysis and Management, Baltimore, MD (Nov. 9, 2012); Society for Benefit-Cost Analysis (Feb. 21, 2013).
- “Transmission Investment Issues in the US (with possible application to New Zealand),” Transpower NZ Limited, Wellington, NZ (Jul. 30, 2012).
- “Government Business Enterprises or Regulated Private Firms: Issues in Choice, Interaction, and Implementation,” 13th Australian Competition and Consumer Commission Regulatory Conference: Lessons Learned and New Approaches, Brisbane, QLD, Australia (Jul. 26, 2012).
- “Lessons For (De)Regulatory Economics: Failures and Controversies,” 13th Australian Competition and Consumer Commission Regulatory Conference: Lessons Learned and New Approaches, Brisbane, QLD, Australia (Jul. 24, 2012); Webb Henderson Regulatory Roundtable, Wellington, NZ (Jul. 30, 2012).
- “Regulating Infrastructure Service: Multiple Objectives, Economic and Other,” 7th Annual Land Policy Conference: Infrastructure and Land Policies, Lincoln Institute, Cambridge, MA (Jun. 4, 2012).
- “Clean Energy Standard Proposals,” 1st Northeast Workshop on Energy Policy and Environmental Economics, Dyson School of Applied Economics and Management, Cornell University, Ithaca, NY (May 5, 2012).
- “What Policy Goals Should Count in Antitrust? Musings on AT&T/T-Mobile,” Phoenix Center for Advanced Legal and Economic Policy Studies, 2011 Annual U.S. Telecoms Symposium, Washington, DC (Dec. 1, 2011).
- “Energy Efficiency Resource Standards: Economics and Policy,” 5th Annual Trans-Atlantic InfraDay—Atlantic Energy Group conference, Federal Energy Regulatory Commission, Washington, DC (Nov. 10, 2011); 10th International Industrial Organization Conference, Arlington, VA (Mar. 17, 2012); Rutgers University Center for Research in Regulated Industries, 31st Eastern Conference in Advanced Regulatory Economics, Shawnee-on-Delaware, PA (May 17, 2012).
- “Patents, Prizes and Technology Procurement: A Proposed Analytical Framework,” 9th International Industrial Organization Conference, Boston, MA (Apr. 9, 2011); National Academy of

Sciences, Washington, DC (Mar. 8, 2012); Environmental Law and Policy Annual Review Conference, Washington, DC (Apr. 13, 2012).

“Can the Future Compensate the Present? Potential Limitations on Cost-Benefit Analysis in Climate Policy,” Society for Benefit-Cost Analysis, Third Annual Conference and Meeting, Washington, DC (Oct. 20, 2010); Center for Urban Environmental Research and Education, UMBC, Catonsville, MD (Apr. 1, 2011), Resources for the Future, Washington, DC (Jun. 29, 2011); Institute of Public Affairs, Melbourne, VIC, Australia (Jul. 23, 2012).

“Energy Efficiency: Policy Puzzles,” Institute for Public Utilities Advanced Regulatory Studies Program, Michigan State University, East Lansing, MI (Oct. 1, 2009); Robert F. Lanzillotti Public Policy Research Center, Warrington College of Business Administration, University of Florida, Gainesville, FL (Mar. 18, 2010), 4th Trans-Atlantic InfraDay, Washington, DC (Nov. 5, 2010); 9th International Industrial Organization Conference, Boston, MA (Apr. 10, 2011); Rutgers University Center for Research in Regulated Industries, 30th Eastern Conference in Advanced Regulatory Economics, Skytop, PA (May 20, 2011); 45th Meeting of the Canadian Economic Association, Ottawa, ON, Canada (Jun. 3, 2011); Government Accountability Office, Washington, DC (Oct. 4, 2011); U.S. Association for Energy Economics, 30th North American Conference, Washington, DC (Oct. 12, 2011).

“The Challenges of Climate for Energy Markets,” Australian Competition and Consumer Commission, Tenth Regulatory Conference, Surfers’ Paradise, Queensland, Australia (July 30, 2009); Maryland Clean Energy Technology Incubator, Catonsville, MD (Mar. 10, 2010), Rutgers University Center for Research in Regulated Industries, 29th Eastern Conference in Advanced Regulatory Economics, Skytop, PA (May 20, 2010); University of California-Washington Center, Washington, DC (Sep. 15, 2011).

“Behavioral vs. standard economics: A methodological assessment,” Curtin Corner Public Policy Forum, Curtin Graduate School of Business, Perth, WA, Australia (July 24, 2009); UMBC Department of Public Policy, Baltimore, MD (Dec. 9, 2009); Association for Social Economics, Philadelphia, PA (Feb. 28, 2010); Resources for the Future, Washington, DC (Jun. 10, 2010); Canadian Competition Bureau, Gatineau, QC (Jun. 2, 2011), Economic Analysis Group, Antitrust Division, U.S. Department of Justice, Washington, DC (Mar. 27, 2012); Australian Competition and Consumer Commission, Melbourne, VIC, Australia (Jul. 24, 2012); Department of Economics, West Virginia University, Morgantown, WV (Oct. 5, 2012).

2006 – 2010:

“Today’s Top Ten Telecom Policy List,” Phoenix Center for Advanced Legal and Economic Policy Studies, 2010 Annual U.S. Telecoms Symposium, Washington, DC (Dec. 2, 2010).

“Consumer Choice in Electricity: Empirical Causes and Methodological Implications,” 3rd Annual FTC-Northwestern Microeconomics Conference, Federal Trade Commission, Washington, DC (Nov. 18, 2010).

“‘High Tech’ Antitrust: Incoherent, Misguided, Obsolete, or None of the Above?” Antitrust and the Dynamics of Competition in High Tech Industries, Technology Policy Institute, Washington, DC (Oct. 22, 2010).

“Valuing Information, Ascertaining Risk, and Setting the Target,” The Value of Information: Methodological Frontiers and New Applications, Resources for the Future and Center for Disease Dynamics, Economics and Policy, Washington, DC (Jun. 28, 2010).

“Net Neutrality or Minimum Standards: Network Effects vs. Market Power Justifications,” Rutgers University Center for Research in Regulated Industries, 29th Eastern Conference in Advanced Regulatory Economics, Skytop, PA (May 20, 2010); Ball State University Digital Policy Institute, Indianapolis, IN (Oct. 15, 2010); 32nd Annual Association for Public Policy Analysis and Management Research Conference, Boston, MA (Nov. 4, 2010); Network Neutrality and

- Open Access, 2nd International Symposium on Communications Regulation, Karlsruhe Institute of Technology Institute of Information Systems and Management, Karlsruhe, Germany (Nov. 22, 2010).
- “Energy Policy and Entrepreneurship,” Grand Opening, Maryland Clean Energy Technology Incubator, Baltimore, MD (Mar. 30, 2010).
- “Dynamic Pricing,” Institute for Public Utilities Advanced Regulatory Studies Program, Michigan State University, East Lansing, MI (Oct. 1, 2009).
- “Network Effects as Infrastructure Challenges Facing Utilities and Regulators,” Keynote Address, Australian Competition and Consumer Commission, Tenth Regulatory Conference, Surfers’ Paradise, Queensland, Australia (July 30, 2009); Trans-Atlantic INFRADAY Conference on Applied Infrastructure Modeling and Policy Analysis, Washington, DC (Nov. 13, 2009).
- “Opening Electricity Markets: US Expectations, Realities,” Energy Forum, Institute for Policy Analysis, Melbourne, VIC, Australia (July 28, 2009); Regulatory Roundtable, MGF Webb, Auckland, NZ (Aug. 3, 2009); Greater Baltimore Committee Energy Symposium, Baltimore, MD (Dec. 9, 2009).
- “Exclusion vs. Predation: Drawing Lines Between Easy and Hard Abuse Cases,” Australian Competition and Consumer Commission, Melbourne, VIC, Australia (July 27, 2009); Economic Analysis Group, Antitrust Division, U.S. Department of Justice, Washington, DC (Mar. 16, 2010); Bureau of Economics, Federal Trade Commission, Washington, DC (Apr. 8, 2010); Sixth Biennial Meeting, Hong Kong Economics Association, Nankai University, Tianjin, China (Dec. 19, 2010).
- “The Changing Antitrust/Regulation Interface in the US: Railways and Beyond,” Australian Railway Business Economics Conference, Centre for Research in Applied Economics, Curtin Graduate School of Business, Perth, WA, Australia (July, 20, 2009).
- “Climate Change, Cap-and-Trade, Renewable Electricity and Efficiency Mandates: How Do They Fit Together?” Technology Policy Institute, Rayburn House Office Building, Washington, DC (June 12, 2009).
- “Economic Standards for Considering Abuse of Dominance: Canadian and U.S. Perspectives,” (co-panelist), Canadian Bar Association, National Competition Law Section, Economics Committee and American Bar Association, Section of Antitrust Law, Economics Committee and International Committee (via teleconference, May 27, 2009).
- “Supporting the Infrastructure: Has Deregulation Helped or Hurt?” *Electric Power Infrastructure: Status and Challenges for the Future*, 2009 Annual Energy Conference, Energy Information Administration, U.S. Department of Energy, Washington, DC (Apr. 7, 2009); Rutgers University Center for Research in Regulated Industries, 28th Eastern Conference in Advanced Regulatory Economics, Skytop, PA (May 15, 2009).
- “Energy Efficiency: Efficiency or Monopsony?” 7th International Industrial Organization Conference, Boston, MA (Apr. 5, 2009); Rutgers University Center for Research in Regulated Industries, 22nd Western Conference in Advanced Regulatory Economics, Monterey, CA (Jun. 18, 2009), 44th Meeting of the Canadian Economic Association, Quebec City, QC, Canada (May 30, 2010).
- “Theories of Harm From RPM: Exclusion, the Equivalence Principle, and *per se* Rules,” FTC Hearings on Resale Price Maintenance, Panel 2: Examining Theories of Harm from Resale Price Maintenance, Federal Trade Commission, Washington, DC (Feb. 19, 2009).
- “Decoupling,” Michigan State University Institute for Public Utilities, 40th Annual Regulatory Policy Conference, Williamsburg, VA (Dec. 10, 2008); George Mason University School of Public Policy (Feb. 12, 2009), Department of Economics, George Washington University (Apr. 23,

- 2009); Rutgers University Center for Research in Regulated Industries, 28th Eastern Conference in Advanced Regulatory Economics, Skytop, PA (May 14, 2009); Resources for the Future (June 11, 2009); Department of Economics and Finance, Curtin Graduate School of Business, Perth, WA, Australia (July, 23, 2009); Institute for Public Utilities Advanced Regulatory Studies Program, Michigan State University, East Lansing, MI (Oct. 1, 2009).
- “Optimal Energy Efficiency Policies and Regulatory Demand-Side Management Tests: How Well Do They Match?” Trans-Atlantic INFRADAY Conference on Applied Infrastructure Modeling and Policy Analysis, Washington, DC (Nov. 14, 2008); 7th International Industrial Organization Conference, Boston, MA (Apr. 4, 2009); Rutgers University Center for Research in Regulated Industries, 22nd Western Conference in Advanced Regulatory Economics, Monterey, CA (Jun. 19, 2009).
- “Antitrust and Deregulation in Software, Telecommunications, and Electricity: Current Directions and Opportunities,” *Electronics Evolution: Then, Now, Emerging*, 2008 ETA Educational & Leadership Conference, Electronic Technicians Association, French Lick, IN (Oct. 13, 2008).
- “Assessing Electricity Markets: (Slightly) Outside the (Economics) Box,” *Powering the Future: Key Energy Issues for the Next Administration*, Technology Policy Institute, Washington, DC (Sept. 26, 2008).
- “RPM as Exclusion: Did the U.S. Supreme Court Stumble Upon the Missing Theory of Harm?” Canadian Economics Association, Vancouver, British Columbia (Jun. 6, 2008); Southern Economic Association, Washington, DC (Nov. 21, 2008).
- “Exclusive Dealing, Tied Selling, and Bundling: An Economic Policy Assessment,” Canadian Competition Bureau, Gatineau, Quebec (May 23, 2008).
- “Night of the Living Dead? Electric Utility ‘Decoupling’ and the Resuscitation of Rate-of-Return Regulation,” 6th International Industrial Organization Conference, Arlington, VA (May 17, 2008).
- “Is the Benefit of Reserve Requirements in the ‘Reserve’ or the ‘Requirement?’” Rutgers University Center for Research in Regulated Industries, 27th Eastern Conference in Advanced Regulatory Economics, Skytop, PA (May 15, 2008).
- “Essential Facilities and *Trinko*: Should Antitrust and Regulation be Combined,” *The Enduring Lessons of the Breakup of AT&T: A Twenty-five Year Retrospective*, Center for Technology, Innovation, and Competition, University of Pennsylvania Law School, Philadelphia, PA (Apr. 18, 2008).
- “Electricity 101: Understanding Maryland’s Electricity Market,” Maryland Public Policy Institute, Annapolis, MD (Mar. 20, 2008).
- “How Are Texas Electricity Markets Regulated? Comments,” *Electricity Deregulation Texas-Style*, American Enterprise Institute, Washington, DC (Jan. 25, 2008).
- “Making a Molehill out of a Mountain: A (Very) Modest Net Neutrality Idea,” Phoenix Center for Advanced Legal and Economic Policy Studies, 2007 Annual U.S. Telecoms Symposium, Washington, DC (Nov. 28, 2007).
- “Should Innovation Rationalize Supra-Competitive Prices? A Skeptical Speculation,” *The Pros and Cons of High Prices*, Swedish Competition Authority, World Trade Centre, Stockholm, Sweden (Nov. 9, 2007); 6th International Industrial Organization Conference, Arlington, VA (May 18, 2008).
- “Electricity Policy Developments,” Paris School of Economics, Ecole Normale Supérieure, Paris, France, (Nov. 7, 2007); Swedish Competition Authority, Stockholm, Sweden (Nov. 8, 2007).
- “Can Antitrust Be Forward Looking?” *Grocery Store Antitrust: Historical Retrospective and Current Developments*, Bureau of Economics, Federal Trade Commission, Washington, DC (May 24, 2007).

- “Skating Toward Deregulation: Canadian Developments,” Rutgers University Center For Research in Regulated Industries, 26th Eastern Conference in Advanced Regulatory Economics, Skytop, PA (May 17, 2007).
- “Same Ends, Conflicting Means? Canadian Competition Law v. U.S. Antitrust,” Department of Public Policy, University of Maryland Baltimore County, Catonsville, MD (May 14, 2007).
- “Rational Attention in Deregulated Utilities,” Behavioral Economics and Consumer Policy Conference, Federal Trade Commission, Washington, DC (Apr. 20, 2007).
- “Tying and Intellectual Property: Comment,” Symposium on Intellectual Property and Competition Law, Competition Bureau and Canadian Intellectual Property Office, Ottawa, Ontario (Mar. 29, 2007)
- “Electricity Markets and Energy Security: Friends or Foes?” *Securing our Nation’s Future*, Georgetown Public Policy Institute Annual Conference, U.S. House of Representatives Rayburn Building, Washington, DC (Mar. 23, 2007).
- “Bundled Rebates as Exclusion, not Predation,” Strategy and Business Economics Division, Sauder School of Business, University of British Columbia, Vancouver, British Columbia (Dec. 8, 2006); 5th International Industrial Organization Conference, Savannah, GA (Apr. 14, 2007).
- “Information Sharing: Economics and Antitrust—Comment,” *The Pros and Cons of Information Sharing*, Swedish Competition Authority, World Trade Centre, Stockholm, Sweden (Nov. 10, 2006).
- “Exclusionary Conduct: Structuring an Approach to Abuse of Dominance,” Swedish Competition Authority, Stockholm, Sweden (Nov. 9, 2006).
- “Seeking a ‘Higher Energy’ State: Issues in Price Deregulation of Electricity,” *Competition Policy in Regulated Industries: Principles and Exceptions*, C. D. Howe Institute, Toronto, Ontario (Nov. 6, 2006).
- “S.79 Knots and Attempts to Untangle Them,” Canadian Competition Bureau, Civil Matters Branch Retreat, Ste. Adele, Quebec (Oct. 24, 2006).
- “Environmental Tools: Managing the Implementation Portfolio,” *Environmental Policy Tools Workshop*, Alberta Environment, Edmonton, Alberta, Canada (Oct. 4, 2006); Center for Urban Environmental Research and Education, University of Maryland Baltimore County, Baltimore, MD (Feb. 9, 2007).
- “2006 in Competition Policy and Enforcement: An Economic Perspective” (with Alan Gundersen), Economics and Law Committee, Canadian Bar Association, Annual Fall Conference on Competition Law, Gatineau, Quebec (Sep. 28, 2006); Vancouver Competition Policy Roundtable, Vancouver, British Columbia (Dec. 7, 2006).
- “Bundled Rebates: When Are They Anticompetitive and How Can We Tell?” eSapience Dinner and Discussion Series, Washington, DC (July 19th, 2006).
- “Fair Trade or Imperialism: Importing Merger Guidelines into Deregulatory Policy,” Centre for the Study of Government and Business, Canadian Economic Association, Montreal, Quebec (May 28, 2006); Rutgers University Center for Research in Regulated Industries, 19th Western Conference in Advanced Regulatory Economics, Monterey, CA (June 30, 2006).
- Statement, Predatory Buying Panel, Department of Justice Antitrust Division and Federal Trade Commission Joint Section 2 Hearings on Single-Firm Conduct, Washington, DC (June 22, 2006).

“Exclusionary Conduct: Structuring an Approach to Monopolization Cases,” Commission for the Protection of Competition (COPROCOM) staff, Competition Bureau, Gatineau, Quebec (May 24, 2006); Office of Fair Trading, London, England (June 19, 2006).

“Three ‘Mini’ Essays on Bundling,” Department of Economics, Carleton University, Ottawa, Ontario (Mar. 24, 2006); Department of Economics, University of Texas, Austin, TX (May 3, 2006); Bureau of Economics, Federal Trade Commission, Washington, DC (June 15, 2006).

“*Trinko v. Baxter*: The Demise of *U.S. v. AT&T*,” Transportation and Public Utilities Group, American Economic Association, Boston, MA (Jan. 8, 2006); 4th International Industrial Organization Conference, Northeastern University, Boston, MA (Apr. 9, 2006).

2001 – 2005:

“Competition Agency Roles: Complements or Substitutes?” Economics and Law Committee, Canadian Bar Association, Annual Fall Conference on Competition Law, Gatineau, Quebec (Nov. 3, 2005).

“Public Use and ‘Just Compensation’: Observations on *Kelo v. New London*,” Resources for the Future, Washington, DC (July 20, 2005); Center for Urban Environmental Research and Education, University of Maryland Baltimore County, Catonsville, MD (Mar. 10, 2006).

“Alleged Transmission Undersupply: Is Restructuring the Cure or the Cause?” Rutgers University Center for Research in Regulated Industries, 23rd Conference in Advanced Regulatory Economics, Skytop, PA (May 19, 2005); International Industrial Organization Conference, Northeastern University, Boston, MA (Apr. 8, 2006).

“Consumer Preference Not to Choose: Methodological and Policy Implications,” Rutgers University Center For Research in Regulated Industries, 23rd Conference in Advanced Regulatory Economics, Skytop, PA (May 19, 2005), International Network for Economic Method, Allied Social Science Association Meetings, Boston, MA (Jan. 7, 2006).

“Electric Energy Markets: Does the Market Send the ‘Right’ Prices?” 9th Annual Washington Energy Policy Conference, School of Advanced and International Studies, Johns Hopkins University, Washington, DC (Apr. 26, 2005).

“Competition as an Entry Barrier? Consumer and Total Welfare Effects of Bundling,” 3rd International Industrial Organization Conference, Atlanta, GA (Apr. 8, 2005).

“Saving Section 2: Applications” Competition Bureau, Industry Canada, Gatineau, Quebec (Oct. 15, 2004).

“Saving Section 2: Theory” Competition Bureau, Industry Canada, Gatineau, Quebec (Oct. 14, 2004).

“Saving Section 2: Provisional Observations,” Federal Trade Commission, Washington, DC (Jul. 13, 2004); School of Public Affairs, Baruch College, New York, NY (Mar. 3, 2005); Eastern Economic Association, New York, NY (Mar. 4, 2005); 3rd International Industrial Organization Conference, Atlanta, GA (Apr. 9, 2005); National Association of Attorneys General Antitrust Seminar, Denver, CO (Sep. 28, 2005).

“Competition Policy Post-Privatization,” International Law Institute, Washington DC (Jun. 11, 2004, Oct. 14, 2005).

“Flight of the Flamingo: Using Competition Law to Open Postal Markets,” 12th Conference on Postal and Delivery Economics, Center for Research in Regulated Industries, Rutgers University, Cork, Ireland (Jun. 4, 2004).

“Pricing Issues in Electricity Generation and Local Telecommunications,” Declining Marginal Cost Industries in the Global Information Age, Competitive Enterprise Institute, Washington, DC (May 7, 2004).

- “Vertical Market Power’ as Oxymoron: Comments on Vertical Merger Guidelines,” *George Mason Law Review* 2004 Antitrust and Consumer Protection Symposium, Washington, DC (Mar. 2, 2004).
- “Implementing Electricity Policy,” Georgetown Public Policy Institute, Washington, DC (Nov. 22, 2003).
- “Regulation and Competition as Complements,” Center for Research in Regulated Industries, Rutgers University, Newark, NJ (Oct. 24, 2003); Rutgers University Center For Research in Regulated Industries, 23rd Conference in Advanced Regulatory Economics, Skytop, PA (May 19, 2004).
- “Electricity Markets: What Makes Them So Difficult?” National Economists Club, Washington, DC (Sep. 25, 2003).
- “Understanding Capacity Requirements,” Rutgers University Center For Research in Regulated Industries, 16th Western Conference in Advanced Regulatory Economics, San Diego, CA (June 27, 2003).
- “Fair Use as Policy Instrument,” Society for Economic Research on Copyright Issues, Annual Congress, Northampton, MA (June 19, 2003).
- “Mismeasuring Electricity Market Power: The Perils of Price-Cost Margins,” Rutgers University Center For Research in Regulated Industries, 22nd Conference in Advanced Regulatory Economics, Skytop, PA (May 21, 2003); School of Business, University of Alberta, Edmonton, Alberta (Oct. 10, 2003); International Industrial Organization Society Conference, Chicago, IL (Apr. 24, 2004); Economic Analysis Group, Antitrust Division, U.S. Department of Justice, Washington, DC (May 4, 2004).
- Panelist, “U.S. v. Microsoft, Where Do We Go From Here?” International Industrial Organization Society Conference, Boston, MA (Apr. 5, 2003).
- “Inherently Inalienable: The Normative Role of Rights in Social Policy,” Association for Social Economics, New York, NY (Feb. 22, 2003).
- “Political Economy and the Efficiency of Compensation for Regulatory Takings,” Eastern Economic Association, New York, NY (Feb. 21, 2003); Association for Public Policy Analysis and Management, Washington, DC (Nov. 8, 2003); Department of Economics, University of Auckland, Auckland, NZ (Mar. 21, 2005).
- “State and Federal Roles in Facilitating Retail Electricity Competition,” Regional Transmission Organizations: Restructuring Electricity Transmission, Van Horne Institute, Center for Regulatory Affairs and Canadian Institute of Resources Law, University of Calgary, Calgary, Alberta (Sep. 27, 2002).
- “Opening Electricity Markets: Lessons from the U.S. Experience,” Symposium on Power Trading and the Role of Government, Deutsche Hochschule für Verwaltungswissenschaften Speyer (German University of Administrative Sciences-Speyer), Speyer, Germany (Jun. 25, 2002); Institute for Policy Studies, Johns Hopkins University (Oct. 7, 2002).
- “Market Failures in Real-Time Metering: A Theoretical Look,” Rutgers University Center For Research in Regulated Industries, 15th Western Conference in Advanced Regulatory Economics, South Lake Tahoe, CA (June 20, 2002).
- “Challenges in Deregulating Electricity: Drawing the Right Lessons from California,” EPCOR Distinguished Lecture, Center for Applied Business Research in Energy and the Environment, School of Business, University of Alberta, Edmonton, Alberta (Oct. 4, 2001); Department of Economics and Faculty of Social Science, University of Calgary, Calgary, Alberta (Mar. 1, 2002); Symposium: Is Government Zapping Our Energy? William-Smith Lectures on Private Enterprise and Democracy, Oberlin College, Oberlin, OH (Mar. 9, 2002); Annual Energy Out-

look/National Energy Modeling System Conference, Energy Information Administration, U.S. Department of Energy, Crystal City, VA (Mar. 12, 2002); Nitze School of Advanced International Studies, Johns Hopkins University, Washington, DC (Mar. 13, 2002).

- “‘Vertical Market Power’ As Oxymoron: Getting Convergence Mergers Right,” Rutgers University Center for Research in Regulated Industries, 14th Western Conference in Advanced Regulatory Economics, San Diego, CA (June 28, 2001).
- “To Squeeze or Not To Squeeze: Why Put Vertical Claims Into Horizontal Boxes,” for panel on “Raising Rivals’ Costs: Should the Government Be Concerned?” Association for the Bar of the City of New York, New York, NY (Apr. 19, 2001); Competition Bureau, Industry Canada, Hull, Quebec (Dec. 6, 2001).
- “Correcting Abuses of Dominance: Controlling Conduct and Altering Structure,” principal speaker, “Symposium: Pyrrhic Victories: Reexamining the Effectiveness of Antitrust Remedies,” George Washington University School of Law, Washington, DC (Mar. 23, 2001).
- “U.S. Electricity Competition, 2000-01: Background and Lessons,” Efficiency and Fairness in the Competitive Economy, Mansfield Center for Pacific Affairs, Washington, DC (Mar. 19, 2001); Learning in Retirement Institute, George Mason University, Fairfax, VA (Apr. 24, 2001), U.S.-Asia Environmental Partnership, Washington, DC (Sep. 26, 2001).
- “The California Electricity Experience, 2000-01: Education or Diversion?” McGee Lecture in Public Policy, Owen School of Business, Vanderbilt University, Nashville, TN (Mar. 1, 2001); Rutgers University Center For Research in Regulated Industries, 20th Annual Conference in Advanced Regulatory Economics, Tamiment, PA (May 24, 2001).
- “Implementing Electricity Competition: What Can We Learn From California?” School of Public Affairs, Baruch College, New York, NY (Feb. 9, 2001).

1996 – 2000:

- “Economists, Economics, and Jurisprudence: Notes on *Browner v. American Trucking Association*,” Resources for the Future, Washington, DC (Nov. 28, 2000).
- “Traditional Policy Analysis and the New Economy,” Association for Public Policy Analysis and Management, Seattle, WA (Nov. 2, 2000).
- “Implementing Electricity Restructuring: Background, Issues, Controversies, and Assessment,” Department of Energy, Environmental, and Mineral Economics, Penn State University, University Park, PA (Oct. 27, 2000).
- “Convergence Mergers as Horizontal Mergers: Why and How,” Department of Energy, Energy Information Administration, Washington DC (Oct. 24, 2000).
- “Policy Federalism and Regulating Broadband Internet Access,” Rutgers University Center For Research in Regulated Industries, 13th Western Conference, Monterey, CA (July 7, 2000); International Communications Forecasting Conference, Seattle, WA (Sep. 28, 2000).
- “Green Preferences as Environmental Policy,” Rutgers University Center for Research in Regulated Industries, 19th Eastern Conference, Bolton Landing, NY (May 25, 2000); Eastern Economic Association, New York, NY (Mar. 4, 2005).
- “Do Easy Cases Make Bad Law? Antitrust Innovation or Missed Opportunities in *U.S. v. Microsoft*,” Northwestern University, Evanston, IL (Mar. 9, 2000); University of Maryland Baltimore County (April 18, 2000); Energy Information Administration, U.S. Department of Energy, Washington, DC (May 9, 2000); Economists, Inc., Washington, DC (July 25, 2000); International Association of Energy Economists, Library of Congress, Washington, DC (Sep. 15, 2000); Federal Communications Commission, Washington, DC (Oct. 4, 2000); Public Policy Workshop, George Washington University, Washington, DC (Oct. 18, 2000); Resources for

- the Future, Washington, DC (Feb. 7, 2001); American Bar Association Antitrust Section, Economics and Computer Industry Committees, Washington, DC (Feb. 21, 2001); Department of Economics, Vanderbilt University, Nashville, TN (Mar. 2, 2001); Department of Economics, West Virginia University, Morgantown, WV (Apr. 6, 2001); Learning in Retirement Institute, George Mason University, Fairfax, VA (Sep. 25, 2001); School of Business, University of Alberta, Edmonton, Alberta (Oct. 5, 2001); School of Public Affairs, Baruch College, New York, NY (Nov. 9, 2001); Competition Bureau, Industry Canada, Hull, Quebec (Dec. 7, 2001).
- “Implementing Electricity Competition: Policy Problems to Solve,” Efficiency and Fairness in the Competitive Economy Program, Mansfield Center for Pacific Affairs, Brookings Institution, Washington, DC (Mar. 7, 2000), Bonneville Power Administration Washington Program, Resources for the Future, Washington DC (Jun. 19, 2000).
- “Antitrust Policy: Theoretical Advances and Policy Cycles,” World Bank, Washington, DC (Nov. 17, 1999).
- “Price Regulation and Privatization: The Case of Chile,” World Bank, Washington, DC (Nov. 12, 1999).
- “Price Regulation: Received Insights and Recent Advances,” World Bank, Washington, DC (Nov. 12, 1999)
- “Why is Electricity Competition So Thorny?” George Mason University (Oct. 25, 1999); Resources for the Future, Washington, DC (July 28, 1999).
- “Updating *A Shock To The System*: New Developments in Electricity Restructuring,” Energy Information Administration, Department of Energy, Washington, DC (July 13, 1999); Resources for the Future, Washington, DC (May 10, 1999).
- “Do Lower Prices for Polluting Goods Make Environmental Externalities Worse?” Rutgers University Center for Research in Regulated Industries, 12th Western Conference, San Diego, CA (July 8, 1999).
- “Current Controversies: The Who, What, When and Why of Electricity Restructuring,” Middle Tennessee State University, Electricity Deregulation Symposium, Murfreesboro, TN (Mar. 30, 1999).
- “Vertical Excuses for Horizontal Practices: Should There Be Any *Per Se* Antitrust Rules?” American Economic Association Meetings, New York, NY (Jan. 5, 1999).
- “Deregulatory Policy in Telecommunications: Quandary or Oxymoron?” Cato Institute, Washington, DC (Nov. 5, 1998).
- “Promoting Telephone Competition: A Simpler Way?” School of Public Affairs, Baruch College, CUNY, New York, NY (Feb. 8, 1999); Center for the Study of Public Choice, George Mason University, Fairfax, VA (Nov. 10, 1998), Federal Communications Commission, Washington, DC (Nov. 4, 1998), 26th Telecommunications Policy Research Conference, Alexandria, VA (Oct. 4, 1998).
- “Critical Issues in Electricity Restructuring: Lessons and Policy Implications of Emerging Markets in New England and Elsewhere,” Alliance for Competitive Electricity, U.S. Capitol, Washington, DC (July 27, 1998).
- “Demand-Side Management Programs Under Retail Electricity Competition,” World Bank, Private Participation in Infrastructure Group, Washington, DC (Mar. 25, 1999); Department of Energy, Electricity Working Group, Washington, DC (Mar. 16, 1999); University of California Energy Institute, POWER Conference, Berkeley, CA (Mar. 5, 1999), Rutgers University Center For Research in Regulated Industries, 11th Western Conference, Monterey, CA (July 10, 1998).

- “Privatization Scenarios and Policy Issues,” Helium Reserve Committee, National Research Council, Washington, DC (July 6, 1998).
- “Looking Forward: The FCC and the Information Economy,” (panelist with FCC Commissioner H. Furchtgott-Roth and P. Pitsch), Session Eight of *Regulation: Principles, Practice, and Opportunities for Reform*, George Mason University, Longworth House Office Building, Washington, DC (Jun. 19, 1998). Transcript available at <http://www.gmu.edu/jbc>.
- “The Clinton Administration’s Competitive Electricity Competition Plan,” University of Calgary, Calgary, Alberta, Canada (May 8, 1998).
- “Electricity: The Big Policy Shifts,” Knight Center for Specialized Journalism, University of Maryland, College Park, MD (Feb. 16, 1998).
- “Executive Branch Electricity Policy Issues,” Resources for the Future, Washington, DC (Oct. 30, 1997)
- “Lessons of Governance Learned at the Council of Economic Advisers,” Department of Economics, University of Calgary, Calgary, Alberta, Canada (May 8, 1998); Center for Public Choice, George Mason University, Fairfax, VA (Oct. 28, 1997); Department of Economics, University of Maryland Baltimore County, Catonsville, MD (Oct. 6, 1997).
- “Antitrust and Regulation: The Interface in U.S. Telecommunications,” International Telecommunications Society, Calgary, Alberta (Jun. 16, 1997).
- “The Stranded Cost Debate in U.S. Electricity Deregulation,” Van Horne Institute, Calgary, Alberta (Jun. 13, 1997).
- “Electricity Restructuring and the U.S. Antitrust Laws,” TransAlta Corporation, Calgary, Alberta (Jun. 13, 1997).
- “Innovation Data for Public Policy,” National Research Council Workshop on Industrial Research and Innovation Indicators for Public Policy, National Academy of Sciences, Washington, DC (Feb. 28, 1997).
- “RBOC Entry into Long Distance Markets: Questions to Resolve,” Federal Communications Commission, Washington, DC (July 23, 1996).
- “A Philosophical Assessment of ‘Law and Economics’: Policy Norms and Judicial Contexts,” Fünftes Travemünder Symposium zur Ökonomischen Analyse des Rechts, Travemünde, Germany (Mar. 30, 1996).
- “The Information Infrastructure Task Force White Paper: An Economic Perspective,” Conference on Property and Commons in the Age of Information, Virginia Polytechnic Institute, Blacksburg, VA (Mar. 16, 1996).
- “Technology and Coordination: Antitrust Implications of Remote Sensing Satellites,” Symposium: High Technology, Antitrust, and the Regulation of Competition, Harvard Law School, Cambridge, MA (Mar. 9, 1996).

1990 – 1995:

- “Regulated Firms in Unregulated Markets,” before Canadian Senate Standing Committee on Transport and Communications, Washington, DC (Nov. 15, 1995).
- “What’s ‘New’ In Industrial Organization?” U.S. Agency for International Development, Annapolis, MD (Sep. 14, 1995).
- “ACCORD: An Internet Testbed Community for Coordinating Digital Technology and Academic Resource Development” (with Mary Keeler), Interoperability and the Economics of Information Infrastructure Workshop, Freedom Forum, Rosslyn, VA (Jul. 6, 1995).

- “Compensation for Regulation: Efficiency, Political Economy, and Equity in the Law,” (with James Boyd), 11th Annual AERE Workshop, Annapolis, MD (Jun. 5, 1995); Center for Public Choice, George Mason University (Sept. 26, 1995); Department of Economics, Louisiana State University (Nov. 3, 1995).
- “From Here to Eternity or Gone With the Wind: Does the Theory Behind U.S. v. AT&T Still Apply today?” 14th Annual Eastern Workshop in Advanced Regulatory Economics, Newport, RI (May 26, 1995); Association for Education in Journalism and Mass Communications, Washington, DC (Aug. 9, 1995), Telecommunications Policy Research Conference, Solomon’s Island, MD (Oct. 1, 1995); Industry Canada-Competition Bureau, Aylmer, Quebec (Nov. 17, 1995); Federal Communications Commission, Office of General Counsel-Competition Division (Nov. 29, 1995).
- “Stranded Assets,” Resources for the Future Council, Carmel, CA (Apr. 6, 1995).
- “Market Failure and Policy Failure,” Office of Technology Assessment, Washington, DC (Feb. 15, 1995).
- “The Economics of Regulation” and “U.S. v. AT&T,” Institutional Reform and the Informal Sector presentation to a delegation from the Russian Duma and State Committee for Anti-Monopoly Policy, Washington, DC (Sept. 1-2, 1994, Oct. 7, 1994).
- “Game Theory and the First Amendment: Strategic Implications of Freedom of the Press,” Joan Shorenstein Barone Center on the Press, Politics and Public Policy, John F. Kennedy School of Government, Harvard University, Cambridge, MA (Mar. 14, 1994); Telecommunications Policy Research Conference, Solomon’s Island, MD (Oct. 2, 1994).
- “Is Cost-of-Service Regulation Worth the Cost?,” 13th Annual Rutgers University Conference/Advanced Workshop in Regulation and Public Utility Economics, Newport, RI (May 25, 1994).
- “Two Kinds of Commensurability,” American Economic Association/Association for Social Economics, Boston, MA (Jan. 3, 1994).
- “Market Competition: An Economic Analysis,” *RBOC Regulatory Relief: Strategic Positioning for the Inevitable*, Telestrategies, Inc., Rosslyn, VA (Sept. 2, 1993).
- “The Economics of Regulation in Emerging Market Economies,” World Bank Economic Development Institute/US Agency for International Development Seminar on Microeconomics: Regulation, Structure, and Pricing Decisions of Natural Monopolies, Vienna, Austria (July 5, 1993).
- “Looking at Privatization,” Association of School Business Officials, Cockeysville, MD (1992).
- “Discrimination, in Theory, by Diversified Regulated Firms,” Telecommunications Policy Research Conference, Solomon’s Island, MD (1992); Southern Economic Association, New Orleans, LA (Nov. 18, 1995).
- “Comment: The Filière Électronique and Civil Society,” Columbia Institute for Tele-Information, Columbia University, New York, NY (1992).
- “First Amendment Rights and Property Rights,” Annenberg School for Communication, University of Southern California, Los Angeles, CA (Oct. 31, 1991), Telecommunications Policy Research Conference, Solomon’s Island, MD (1992).
- “Whither the Tunney Act: Remarks on Judge Greene’s Ruling to Lift the Line-of-Business Restriction on BOC Offering of Information Services,” Columbia Institute for Tele-Information, Columbia University, New York, NY (1991).
- “Markets, Information, and Virtue,” Western Social Science Association meetings, Sparks, Nevada (1991).

“Economic Perspectives on the First Amendment,” Freedom of Expression Past, Present and Future, Marshall-Wyeth School of Law, The College of William and Mary (1991).

“Social Moral Hazard: Technology, Paternalism, and Choice,” Department of Economics, George Mason University, Fairfax, VA (1990).

“Rights as Inalienable,” University of Maryland School of Law, Baltimore, MD (1990); Resources for the Future, Washington, DC (1990).

Official Publications (Major Antitrust Division Regulatory Filings):

Before the Federal Communications Commission:

Broadcasting:

“Amendment of Part 76 of the Commission’s Rules Concerning Carriage of Television Broadcast Signals by Cable Television Systems,” MM Docket No. 85-349, Jan. 30, 1986.

“Regional Concentration of Control Provisions of the Commission’s Multiple Ownership Rules,” MM Docket No. 84-19, Feb. 21, 1984.

“Multiple Ownership of AM, FM, and Television Broadcast Stations,” Gen. Docket No. 83-1009, Jan. 19, 1984 (reply comments, Feb. 21, 1984).

“Amendment of the Financial Interest and Syndication Rule,” BC Docket No. 82-345, Jan. 26, 1983 (reply comments, Apr. 26, 1983; Comments on FCC Tentative Decision, Sept. 20, 1983)—with Sheldon Kimmel.

“Amendment of the Commission’s Rules and Regulations Relative to Elimination of the Prohibition on Common Ownership of Cable Television Systems and National Television Networks,” CT Docket No. 82-434, Nov. 29, 1982.

“An Inquiry Into the Future Role of Low Power Television Broadcasting and Television Translators in the National Telecommunications System,” Docket No. 78-253, Mar. 2, 1981.

Common Carrier:

“Capping ‘Average’ Prices of Regulated Multiproduct Firms,” CC Docket 87-313: “Policy and Rules Concerning Rates for Dominant Carriers” (1987).

“Long-Run Regulation of AT&T’s Basic Domestic Interstate Services,” CC Docket No. 83-1147, Apr. 2, 1984 (reply comments, Jun. 4, 1984).

“Policy and Rules Concerning the Furnishing of Customer Premises Equipment, Enhanced Services, and Cellular Communications Services by the Bell Operating Companies,” CC Docket No. 83-115, Apr. 25, 1983.

“MTS and WATS Market Structure” (on pricing of telephone service), CC Docket No. 78-72, Aug. 6, 1982 (reply comments, Sep. 13, 1982)—with Thomas C. Spavins.

“An Inquiry into the Use of the Bands 825-845 MHz and 870-890 MHz for Cellular Communications Systems; and Amendment of Parts 2 and 22 of the Commission’s Rules Relative to Cellular Communications Systems,” CC Docket No. 79-318, Jun. 19, 1981.

“Elimination of Telephone Company-Cable Television Cross Ownership Rules for Rural Areas,” Docket No. 80-767, Apr. 6, 1981.

Before the Consumer Product Safety Commission:

“Proposed Methodology for Commission Consideration of Findings Under Section 9(c) of the Consumer Product Safety Act” (on standards for product regulation), Mar. 24, 1981.

Before the Department of Energy, Economic Regulatory Administration:

“Domestic Crude Oil Entitlements,” Docket No. ERA-R-80-36, Dec. 30, 1980.

“Motor Gasoline Allocation Revision and Mandatory Petroleum Price Regulations, Equal Application Rule,” Docket Nos. ERA-R-80-16 and ERA-R-80-20, Sep. 10, 1980.

“Gasohol Pricing and Allocation,” Docket No. ERA-R-80-11, Jul. 21, 1980.

“Alaska North Slope Crude Oil Entitlements,” Docket No. ERA-R-80-09, Jun. 13, 1980.

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“Trans-Alaska Pipeline System,” Docket No. OR78-1:

- a. Supplemental Reply Brief of U.S. Dept. of Justice on Capital Structure, Rate of Return, Taxes, and Tariff, Jul. 9, 1979;
- b. Supplemental Initial Brief on Exceptions of U.S. Dept. of Justice on Risk, Rate of Return, Taxes, and Tariff, May 1, 1980;
- c. Supplemental Reply Brief on Exceptions of U.S. Dept. of Justice, Jun. 2, 1980.