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Curriculum Vitae

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- 2005-present ✧ Professor of Law & Economics, George Mason University
- 2005-present ✧ Director, Information Economy Project, GMU Law School
- 2002- present • Columnist, *Financial Times*
- 2000- present ✧ Senior Adviser, Analysis Group
- 2004 - 2005 • Visiting Faculty, Wharton School, University of Pennsylvania
- 1991 - 1992 ✧ Chief Economist, Federal Communications Commission

Degree: Ph.D., UCLA, 1984 (Economics)

Fields of Specialization:

Research: Law & Economics, Public Choice, Information Technology Policy
Teaching: Microeconomics, Corporate Finance, Law & Economics, Telecom/Internet Strategy and Policy

Awards:

- 1990-1991 ✧ Citicorp/Wriston Fellow, Manhattan Institute for Policy Research
- 1997-1998 ✧ Outstanding Lecturer, UC Davis Managerial Economics Program

Related Experience:

- 2005-present ✧ Board of Directors, Telecommunications Policy Research Conference
- 2001-2005 ✧ Senior Fellow, Manhattan Institute for Policy Research
- 2001-2003 • Fellow, AEI-Brookings Joint Center for Regulatory Studies
- 1998-2001 ✧ Resident Scholar, American Enterprise Institute
- 1996-2000 ✧ Professor of Agricultural & Resource Economics, UC Davis
- 1990-1996 ✧ Assoc. Prof. of Agricultural & Resource Economics, UC Davis
- 1984-1990 ✧ Asst. Prof. of Agricultural & Resource Economics, UC Davis
- 1993-2000 ✧ Director, Program on Telecommunications Policy, UC Davis
- 1990-1991 ✧ Visiting Scholar, Grad. School of Business, Columbia University

Books:

Public Policy Toward Cable Television: The Economics of Rate Controls, co-authored with Matthew Spitzer (Cambridge, MA: M.I.T. Press, 253 pages, December 1997).

Telecommunications Meltdown: Did American Communications Policy Fail?, co-authored with Eli Noam, Lawrence Lessig, and Richard A. Epstein (Tokyo: NTT Publishing, February 2005, 185 pages; translated into Japanese by Motohiro Tsuchiya, Kaoru Sunada, Akiko Shimojima, and Akiko Kojima), <http://www.nttpub.co.jp/vbook/list/detail/0148.html>.

Research Articles:

"Competition vs. Franchise Monopoly in Cable Television," in *Contemporary Policy Issues IV* (April 1986), 80-97.

"Public Policy and the Telecommunications Revolution," *Contemporary Policy Issues IV* (April 1986), 52-53.

"Is Antitrust Anticompetitive?" *Harvard Journal of Law and Public Policy IX* (Spring 1986), 277-336.

"Private Monopoly and the Public Interest: An Economic Analysis of the Cable Television Franchise," *University of Pennsylvania Law Review 134* (July 1986), 1335-1409.

"The Role of Property Rights in the Positive Theory of Monopoly," *Managerial and Decision Economics 8* (September 1987), 201-212.

"The Policy of Exclusive Franchising in Cable Television," *Journal of Broadcasting and Electronic Media 31* (Winter 1987), 1-20.

"Economic Origins of Apartheid," *Contemporary Policy Issues VI* (October 1988), 85-104.

"The Fairness Doctrine and the First Amendment," *The Public Interest 96* (Summer 1989), 103-116.

"Duopolistic Competition in CATV: Implications for Public Policy," *Yale Journal on Regulation VII*, No. 1 (Winter 1990), 65-119.

"A Reply to Regulation and Competition in Cable Television," *Yale Journal on Regulation, VII*, No. 1 (Winter 1990), 141-48.

"The Rationality of U.S. Regulation of the Broadcast Spectrum," *Journal of Law & Economics*, XXXIII (April 1990), 133-175. Reprinted in Stuart M. Benjamin, Douglas G. Lichtman, and Howard A. Shelanski, *Telecommunications Law and Policy* (Durham, N.C.: Carolina Academic Press, 2001).

"Rent-Seeking in the Telco/Cable Cross-Ownership Controversy," *Telecommunications Policy* 14 (October 1990), 425-433.

"The Demand to Regulate Franchise Monopoly: Evidence from CATV Rate Deregulation in California," *Economic Inquiry* XXIX (April 1991), 275-296.

"The Political and Economic Motivation for Antitrust Legislation: The Sherman Act Re-examined," *Economic Inquiry* XXX (April 1992), 263-276.

"The Cost of Rent Seeking: Evidence from the Cellular Telephone License Lotteries" (with Robert J. Michaels), *Southern Economic Journal* 39 (January 1993), 425-35.

"Telco Entry Into Video," *Annual Review of Communications 1994-95*, International Engineering Consortium (1995), 212-28.

"Predation in Local Cable Television Markets," *Antitrust Bulletin* XL (Fall 1995), 609-44.

"Cable Television Rate Deregulation," *International Journal of the Economics of Business* 3 (No. 2, 1996), 145-63.

"Explaining the Telecommunications Act of 1996: Comment on Thomas G. Krattenmaker," 29 *Connecticut Law Review* (Fall 1996), 217-42.

"Was the Fairness Doctrine a 'Chilling Effect'? Evidence from the Post-Deregulation Radio Market" (with David Sosa) *Journal of Legal Studies* XXVI (January 1997), 307-29.

"'Chilling' the Internet? Lessons from FCC Regulation of Radio Broadcasting" (with David Sosa), 3 *Michigan Telecommunications and Technology Law Review* (1997), available online at: <http://www.law.umich.edu/mttlr/>.

"Physical Scarcity, Rent-Seeking and the First Amendment," *Columbia Law Review* 97 (May 1997), 905-44.

"Prices and Outputs Under Cable TV Reregulation," *Journal of Regulatory Economics* 12 (September 1997), 173-95.

"The Dual Role of Property Rights in Protecting Broadcast Speech," *Social Philosophy & Policy* 15 (Summer 1998), 176-208.

"Oak Leaves and the Origins of the 1927 Radio Act: Comment" *Public Choice* 95 (June 1998), 277-85.

"Occupational Licensing and the Transition from Welfare to Work" (with Jennifer Fearing) *Journal of Labor Research* (Spring 1998).

"Assigning Property Rights to Radio Spectrum Users: Why Did FCC License Auctions Take 67 Years?" *Journal of Law & Economics* XLI (October 1998), 529-76.

"Spectrum Flash Dance: Eli Noam's Proposal for 'Open Access' to Radio Waves," the *Journal of Law & Economics* XLI (October 1998), 805-20.

"Use of Designated Entity Preferences in Assigning Wireless Licenses," with Babette E.L. Boliek 51 *Federal Communications Law Journal* (May 1999), 639-63.

"Economic & Political Consequences of the 1996 Telecommunications Act," 50 *Hastings Law Journal* (August 1999), 1359-94. Reprinted in 23 *Regulation* (No. 3, 2000), 36-45.

"Microsoft's Browser 'Jihad': Competitive or Predatory?" 9 *Cornell Journal of Law & Public Policy* (Fall 1999), 29-59.

"DOS Kapital: Has Antitrust Action Against Microsoft Created Value in the Computer Industry?" with George Bittlingmayer, 55 *Journal of Financial Economics* (March 2000), 329-59. Reprinted in, David S. Evans, ed., Microsoft, Antitrust and the New Economy: Selected Essays (Boston: Kluwer Academic Publishers, March 2002), 193-220.

"Digitizing Must Carry under Turner Broadcasting v. FCC (1997)," 8 *Supreme Court Economic Review* (2000), 141-207.

"Digital TV and the Quid Pro Quo," with Matt Spitzer, 2 *Business & Politics* (August 2000), 115-59.

"The Effect of Rate Regulation on Mean Returns and Non-diversifiable Risk: The Case of Cable Television," with Arthur Havenner and Zhiqiang Leng, 19 *Review of Industrial Organization* (2001), 149-164.

"The Fallacy of Regulatory Symmetry: An Economic Analysis of the 'Level Playing Field' in Cable TV Franchising Statutes," with George Ford, 3 *Business & Politics* (April 2001), 21-46.

"The Wireless Craze, the Unlimited Bandwidth Myth, the Spectrum Auction Faux Pas, and the Punchline to Ronald Coase's 'Big Joke': An Essay on Airwave Allocation Policy," 15 *Harvard Journal of Law & Technology* (Spring 2001), 335-567.

“Open Access’: The Ideal and the Real,” with George Bittlingmayer, 26 *Telecommunications Policy* (2002), 295-310.

“Regulation and Vertical Integration in Broadband Access Supply,” in Robert Crandall and James Alleman, eds., *Should We Regulate High-Speed Internet Access?* (Washington, DC: AEI-Brookings Joint Center for Regulatory Studies; Dec. 2002), 197-222.

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“Practical Steps to Spectrum Markets,” 27 *Telecommunications Policy* (August 2003), 479-80.

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“The Irony of Regulated Competition in Telecommunications,” 4 *Columbia Science & Technology Law Review* (2003).

“The Arbitrage Mirage: Regulated Access Prices with Free Entry in Local Telecommunications Markets” (with Arthur M. Havenner), *Review of Network Economics* (Dec. 2003), 440-450.

“Is Federal Preemption Efficient in Cellular Phone Regulation?” 56 *Federal Communications Law Journal* (Dec. 2003), 155-237.

“All Broadcast Regulation Politics Are Local: A Response to Christopher Yoo’s Model of Broadcast Regulation,” 53 *Emory Law Journal* (Winter 2004), 233-53.

“Legislators vs. Regulators: Who Killed Low Power FM Radio?” with Bruno Viani, 7 *Business & Politics*, No. 1, Article 1 (April 2005).

“Spectrum Tragedies,” 22 *Yale Journal on Regulation* (Summer 2005), 242-74.

“The Social Value of TV Band Spectrum in European Countries,” with Jüergen Müller and Roberto Muñoz, 8 *INFO*, No. 2 (2006), 62-73.

“Advanced Wireless Technologies and Public Policy,” with Matthew L. Spitzer, 79 *Southern California Law Review* (March 2006), 595-665.

“Rivalrous Telecommunications Networks With and Without Mandatory Network Sharing,” *Federal Communications Law Journal* (forthcoming, 2006).

“Shedding Tiers for a la Carte? An Economic Analysis of Cable TV Pricing,” (University of Colorado) *Journal of Telecommunications and High Technology Law* (forthcoming, 2006).

“Cable TV Franchises as Barriers to Video Competition,” *Virginia Journal of Law & Technology* (forthcoming, 2006).

Articles Submitted or In-Progress:

“Property Rights to Radio Spectrum in Guatemala and El Salvador: An Experiment in Liberalization,” with Giancarlo Ibarguen and Wayne A. Leighton, George Mason University Law & Economics Working Paper 06-07 (March 2006).

“‘Barbed Wireless’ and the Vertical Structure of Property Rights,” Conference Paper, Mont Pelerin Society, Reykjavik, Iceland (Aug. 22, 2005).

“A Welfare Analysis of Spectrum Allocation Policies,” with Roberto E. Muñoz, AEI-Brookings Joint Center for Regulatory Studies, Related Publication 04-18 (August 2004).

“What Really Matters in Spectrum Allocation Design,” with Roberto E. Muñoz, AEI-Brookings Joint Center for Regulatory Studies Working Paper 04-16 (August 2004).

“Property Rights and the Value of Wireless Licenses,” AEI-Brookings Joint Center for Regulatory Studies Working Paper No. 04-08 (March 2004).

“The U.S. Digital TV Transition: Time to Toss the Negroponte Switch,” AEI-Brookings Joint Center for Regulatory Studies Working Paper 01-15 (November 2001).

“Regulated Unbundling of Telecommunications Networks: A Stepping Stone to Facilities-Based Competition?” with Coleman Bazelon, paper presented at the Telecommunications Policy Research Conference (Sept. 2005).

Book Chapters & Other Essays:

"The Curious Evolution of Natural Monopoly Theory," in Robert Poole, Jr., (ed.), Unnatural Monopolies: The Case for Deregulating Public Utilities (Lexington, MA: Lexington Books, 1985).

"Private Contracting vs. Public Regulation as a Solution to the Natural Monopoly Problem," in Robert Poole, Jr., (ed.), Unnatural Monopolies: The Case for Deregulating Public Utilities (Lexington, MA: Lexington Books, 1985).

"The Economics of Discrimination in Rent Controlled Housing Markets," in Issues in Housing Discrimination (Washington, D.C.: United States Commission of Civil Rights, 1985).

"Razing Keynes," Chapter One in Morgan O. Reynolds, ed., W. H. Hutt: An Economist for the Long Run (Chicago: Henry Regnery, 1986).

"Wiring the Constitution for Cable," *Regulation* 12 (Number 1, 1988), 30-34; summarized as "Unwiring Cable" in *The Wilson Quarterly* XII (Winter 1988), 26-27.

"Cabling America: Economic Forces in a Political World," in Cento Veljanovski, ed., Freedom in Broadcasting (London: Institute of Economic Affairs; 1989), 208-223.

"Taxing Entrepreneurs: Models and Reality," in Bös and Felderer, eds., The Political Economy of Progressive Taxation (Berlin-Heidelberg: Springer, 1989), 145-147.

"Competition Policy in Cable Television," *Regulatory Reform III* (Industry Regulation Committee of the ABA Section of Antitrust Law; May 1990), 7-15.

"Should Telephone Companies Provide Cable TV?," *Regulation* 13 (Winter 1990), 72-80.

"CATV: The Impact of Deregulation and the Emerging Technology." In Martin Elton, ed., Integrated Broadband Networks (Amsterdam: Elsevier; May 1991), 247-263.

"Telecommunications: Starting the Next Century Early," in David Boaz and Edward H. Crane (eds.), Market Liberalism: A Paradigm for the 21st Century (Washington, DC: Cato Institute, 1993), 129-146.

"Cable Re-regulation: What You Didn't See on C-SPAN," *Regulation* (Spring 1993).

"The Political Economy of Apartheid," in D. R. Henderson, ed., Fortune Encyclopedia of Economics (August 1993), 97-104.

"Rate Regulation and the Quality of Cable Television," chapter in William Lehr, ed., Quality and Reliability in Telecommunications Infrastructure (1995).

"What To Do About Telecoms," *Jobs & Capital* (Fall 1995), 33-38.

"Federal Pre-emption of Local Regulation of Cable Television," Chapter 23 in James Hickey, Jr. and Alexej Ugrinsky, eds., Government Structures in the USA and the Sovereign States of the Former USSR (1996), 247-55.

"Bottom-Up Privatization: The Czech Experience," Chapter 7 in Terry Anderson and P.J. Hill, eds., The Privatization Process: A Worldwide Perspective (1996), 97-114.

"Market Failure in Broadcast Regulation," Ch. 6 in R. Corn-Revere, ed., Rationales and Rationalizations (Washington, D.C.: The Media Institute; 1997), 151-182.

"Is the 'Public Interest' in the Public Interest?," in Donald L. Alexander, ed., Telecommunications Policy: Have Regulators Dialed the Wrong Number? (Westport, CT: Praeger; 1997), 49-74.

"Telecommunications Policy Reform in the United States and Canada," with Robert Crandall, in Martin Cave and Robert Crandall, eds., Telecommunications Liberalization on Two Sides of the Atlantic (Washington: AEI-Brookings Joint Center for Regulatory Studies; 2001), 8-38.

"Canadian Television Policy After Broadcasting," in Marc Raboy, ed., L'avenir de la Réglementation de la Radiodiffusion, Cahier-médias numéro 14, Centre d'études sur les Médias, Université Laval (Sainte-Foy, Quebec; March, 2003).

"Cable Television," chapter in Martin Cave, Sumit Mujumdar, and Ingo Vogelsang, eds., Handbook of Telecommunications Economics, Volume II (Amsterdam: Elsevier; Dec. 2005).

"Ronald Coase and the Spectrum Question," Beesley Lecture, London Business School (Oct. 11, 2005; published version forthcoming, 2006)

Special Teaching Assignments/Lectures:

"The Economic Way of Thinking," Foundation for Teaching Economics, Prague, Czechoslovakia (September 1991).

"The Economic Way of Thinking," Foundation for Teaching Economics, Prague, Czechoslovakia (August 1992).

"The Economic Way of Thinking," Foundation for Teaching Economics, Budapest, Hungary (September 1992).

"Economic Challenges for the Next Four Years," A Conference for Journalists presented by the Foundation for American Communications, Los Angeles, California (January 1993).

Ministry of Post & Telecommunications Institute, lecture program arranged by Columbia Institute on Tele-Information, Tokyo, Japan (March 1993).

"Nafta, Gatt and Other Four-Letter Words," An economics conference for journalists presented by the Foundation for American Communications, San Diego, California (December 1993).

Institute on Economics for Journalists presented by the Foundation for American Communication, funded by Ford Foundation, Tomales Bay, California (July 1994).

Ministry of Post & Telecommunications Institute, (program arranged by Columbia Institute on Tele-Information), Tokyo, Japan (December 1994).

"The New Congress and the Economy," An economics conference for journalists presented by the Foundation for American Communication, University of Georgia (May 1995).
Institute on Economics for Journalists presented by the Foundation for American Communications, Tomales Bay, California (July 1995).

Center for Market Processes, Congressional Staff Briefing on the economics of regulation, Williamsburg, Virginia (August 1995).

"Spectrum Management," Columbia University's Third Annual International Training Conference for Telecommunications Regulators, New York, New York (November 1995).

"Economics and the '96 Elections," Economics Conference for Journalists presented by the Foundation for American Communications, Greenbrier, West Virginia (April 1996).

Institute on Economics for Journalists presented by the Foundation for American Communications, Jackson Hole, Wyoming, (August 1996).

"Economics for Leaders," Lectures to High School Economics Teachers, Foundation for Teaching Economics, Babson College, Wellesley, Massachusetts (July 1997).

Institute on Economics for Journalists presented by the Foundation for American Communications, Tomales Bay, California (August 1997).

The Stranahan Lecture, University of Toledo School of Law (October 1997)

Distinguished Pantaleon/Concepcion Chair, Universidad Francisco Marroquin, Guatemala (October 1997).

Telecommunications Policy, Seminar for Journalists, Foundation for American Communications, San Diego, California (December 1998).

Institute on Economics for Journalists presented by the Foundation for American Communications, Tomales Bay, California (August 1999).

Institute on Economics for Journalists presented by the Foundation for American Communications, Tomales Bay, California (June 2000).

Institute on Property Rights for Judges, George Mason University School of Law, Law & Economics Center, Tucson, Arizona (April 2004).

Capitol Hill Campus, Mercatus Center, George Mason University, Lecture on Spectrum Policy for Congressional Staff Members, Washington D.C. (Jan. 31, 2006)

Capitol Hill Campus, Mercatus Center, George Mason University, Lecture on Cable TV Regulation for Congressional Staff Members, Washington D.C. (Feb. 2, 2006).

Monographs:

"Cable Television and the First Amendment: Bartering with the Public Interest," (Washington, D.C.: The Media Institute, 1987).

"Residential Community Associations as Alternative Providers of Public Services," (Berkeley: California Policy Seminar, July 1988).

"Perspectives of Regulators," in Regulating Chemicals: The Quandary in Public Policy, Report of the Public Policy and Regulations Study Group for the 1987-88 Study on "Chemicals in the Human Food Chain: Sources, Options and Public Policy," University of California Agricultural Issues Center (1988), pp. 28-33.

"Cable vs. Telcos: Technology Shaping Emerging Policy Options," Cable TV and News Media Law & Finance, VII (no. 3; May 1989), pp. 1, 5.

"The Political Economy of Rent Control in California," Reason Foundation monograph (November 1991).

"The Effect of U.S. Sanctions on South African Apartheid." Institute of Governmental Affairs, UC Davis (April 1992).

"The Political Economy of Radio Spectrum Auctions," Working Paper No.1, Program on Telecommunications Policy, Institute of Governmental Affairs, UC Davis, June 1993.

"Market Power in the Cellular Telephone Duopoly," study submitted to the Federal Communications Commission by the Time Warner Telecommunications, August 1993.

"Errors in the Haring-Jackson Analysis of Cellular Rents," report submitted to the Federal Communications Commission by the National Cellular Resellers Association, January 1994.

"Regulating Cable Television Rates: An Economic Analysis," Working Paper No.3, Program on Telecommunications Policy, Institute of Governmental Affairs, U.C. Davis, July 1994.

"Regulating the Digital Explosion," Briefing Paper for Journalists in *Quill Magazine* (April 1995).

"Chilling' the Internet? Lessons from FCC Regulation of Radio Broadcasting," with David Sosa, *Cato Institute Policy Analysis No. 270* (19 March, 1997).

"Regulating Wireless Phones in California: An Economic Analysis," Pacific Research Institute (April 15, 2003), <http://www.pacificresearch.org/pub/sab/techno/wireless/HazlettPaper.pdf>.

"Sending the Right Signals: Promoting Competition Through Telecommunications Reform," A Report to the U.S. Chamber of Commerce, co-authored with Coleman Bazelon, John Rutledge, and Deborah Allen Hewitt (Oct. 6, 2004), <http://www.uschamber.com/portal/teleconsensus/041006telecommstudy.htm>.

Refereed or Reviewed Manuscripts for:

American Economic Review, Journal of Industrial Economics, Economic Inquiry, Journal of Law & Economics, Information Economics and Policy, IEEE Internet Computing, Contemporary Economic Policy, California Agriculture, Journal of Economics & Management Strategy, Journal of Law, Economics & Organization, Journal of Broadcasting & Electronic Media, Journal of Economic History, Journal of Regulatory Economics, Business History Review, Managerial and Decision Economics, Southern Economic Journal, Review of Law & Economics, Telecommunications Policy, Review of Network Economics, Manhattan Institute for Policy Research, AEI-Brookings Joint Center for Regulatory Studies, Smith-Richardson Foundation, Earhart Foundation, Harcourt-Brace, M.I.T. Press, University of Chicago Press, Federal Trade Commission, Congressional Budget Office.

Consulting (formal and informal):

SBC, Turner Broadcasting, U.S. Chamber of Commerce, Major League Baseball, Verizon, Knology, Northpoint Technology, SMS/800, Satellite Broadcasting & Communications Association, FiberStreet, Gemstar, Telus, Pacific West Cable Company, Preferred Communications, Century Cable, Group W, Telesat Cablevision, Norwest Communications, Total TV, Montgomery Cable and Entertainment, Ohio Bell, Wireless Cable Association, Competitive Cable Association, U.S. Telephone Association, AT&T Wireless, Cingular, Nextel, T-Mobile, Sprint PCS, Cellular Telephone Resellers Association, Western Wireless, NewsCorp, FoxTel, Cablevision Systems, CBS, Pacific Telesis, U.S. West, BellSouth, Ameritech, Southwestern Bell, Nynex, Time Warner Telecommunications, Coastal Cable, Southern New England Telephone, McClatchy Enterprises, Viacom, Tandem Computers, White House Office of Policy, White House Council of Economic Advisers, U.S. Department of Justice, Federal Trade Commission, Federal Communications Commission, the National Telecommunications and Information Administration, Government of El Salvador, Government of Guatemala, Government of United Kingdom, European Commission, Congressional Budget Office, U.S. General Accountability Office, County of Santa Cruz, California Department of Justice, California Governor's Office, Progress & Freedom Foundation, Alliance for Public Technology, Common Cause, California Power Exchange, the California Board of Equalization, the U.S. House Commerce Committee staff, and the U.S. Senate Commerce Committee staff.

Oral Testimony:

Before the Joint Economic Committee of Congress on the subject of urban enterprise zones, October 1981.

Before the California Public Broadcasting Commission on the subject of cable television deregulation, February 1982.

Before the Compton, California City Council, on the subject of enterprise zones, October 1982.
Before the Pacific Grove, California City Council, on the subject of local land-use regulations, February 1984.

Before the Federal Competition Board, Republic of South Africa, on the subject of monopoly and industrial concentration, June 1985.

Before the U.S. Commission on Civil Rights, on the subject of housing market discrimination, November 1985.

Before the Santa Cruz, California City Council, on the subject of municipal franchising of cable television, November 1985.

Before the U.S. District Court for Northern California, in Pacific West v. Sacramento, regarding franchise monopoly in cable television, April/May 1987.

Before the U.S. District Court for Minnesota, in Norwest Communications v. St. Paul, regarding franchise monopoly in cable television, May/June 1988.

Before the Florida State House of Representatives on cable television franchising legislation, March 1991.

Before the U.S. District Court for Northern California, in Pacific West v. Sacramento Cable Television, on predatory behavior in cable competition, April 1991.

Before the Advisory Council on the National Information Infrastructure, U.S. Department of Commerce, Washington D.C., February 1994.

Before the California Superior Court, Sacramento County, in Coleman et al. v. Sacramento Cable Television, regarding price discrimination and cable competition, March, May 1994.

Before the U.S. Senate, Committee on Commerce, Science and Transportation, regarding the use of auctions for High Definition Television licenses, September 1995.

Before the Federal Communications Commission, En Banc hearing on Spectrum Allocation, March 1996.

Before the U.S. Senate Budget Committee, regarding auctioning digital television licenses, March 1996.

Before the U.S. Senate, Committee on Commerce, Science and Transportation, regarding spectrum regulatory policy, March 1996.

Before members of the Guatemalan Congress, regarding telecommunications policy reform legislation, September 1996.

Before Federal Bankruptcy Court (Dallas, Texas) regarding the Personal Communications Service license auctions conducted by the Federal Communications Commission, April 1998.

Before the Federal Communications Commission, En Banc hearing on Spectrum Allocation, April 1999.

Before the Federal Communications Commission, Public Hearing on Creating Secondary Markets in Spectrum, May 31, 2000.

Before the Senate Commerce Committee, Hearings on the Transition to Digital Television, March 1, 2001.

Before the U.S. Department of Commerce, NTIA Spectrum Summit, April 4, 2002.

Before the Spectrum Policy Task Force, Federal Communications Commission, August 9, 2002.

Before the Congressional Internet Caucus, Spectrum Policy, Washington, D.C., May 1, 2003.

Before the U.S. Department of Commerce, NTIA Spectrum Policy Hearing, May 12, 2003.

Before the Senate Commerce Committee, Subcommittee on Communications, Hearing on MVDDS licensing, May 22, 2003.

Before the Senate Commerce Committee, Hearing on the Digital TV transition, June 9, 2004.

Book Reviews and Op-Eds:

"Slinky Plan for Sticky Wages," review of Martin Weitzman's The Share Economy in the *Wall Street Journal* (20 May, 1985).

"Animal Rights, Animal Crackers," *Wall Street Journal* (7 August, 1985).

"Why Cable TV Needs a Free Market," *New York Times* (17 November, 1985).

"Lose a Billion--Get a Check," review of Robert Reich and John Donahue, New Deals: The Chrysler Revival and the American System in *Reason Magazine* (December 1985).

"Those Catchwords of Cable," *Wall Street Journal* (25 April, 1986).

"Kinnock's Crowning Cheek on Apartheid," *Wall Street Journal* (31 December, 1986).

"Economic Sanctions May Actually Help South Africa's Apartheid," *Chicago Tribune* (26 February, 1987).

"Sanctions: Hurting South Africa, Helping Apartheid," *San Francisco Chronicle* (4 March, 1987).

"Ma Bell's Disconnect," review of Steve Coll's, The Deal of the Century: The Break-Up of AT&T in *Reason Magazine* (May 1987), 51-54.

"The Unfairness Doctrine," review of Lucas A. Powe, Jr.'s American Broadcasting and the First Amendment, *Wall Street Journal* (June 4, 1987).

"The Fairness Doctrine was Never Quite Fair," *Los Angeles Times* (4 October, 1987).

"Making Money Out of the Air," *New York Times* (2 December, 1987).

"Ingredients of a Food Phobia," *Wall Street Journal* (5 August, 1988).

"Negative Icons Nose to Nose on 'Geraldo,'" *Wall Street Journal* (8 November, 1988).

"Economist! Drama! Prose!," review of George J. Stigler's Memoirs of an Unregulated Economist, *Reason Magazine* (May 1989), 53-55.

"Wired: The Loaded Politics of Cable TV," *The New Republic*, 200, No. 22 (May 29, 1989), 11-13.

"Raiders of the Lost Park," *Wall Street Journal* (14 September, 1989).

"Bushels of Dough," review of James Bovard's The Farm Fiasco, *Wall Street Journal* (21 September, 1989).

"The Unbelievable LBJ," review of Robert A. Caro's Means of Ascent, *Wall Street Journal* (8 March, 1990).

"Who's Behind the Cable Scam?," *Wall Street Journal* (30 March, 1990).

"Dial 'G' for Giveaway," *Barron's* (4 June, 1990).

"For Cable TV, Rerun of a Horrow Show," *New York Times* (8 August, 1990).

"Static Interference," review of William B. Ray's FCC: The Ups and Downs of Radio-TV Regulation, *Reason* (February, 1990), 55-57.

"One Man, One Share: How to Privatize South Africa," *The New Republic* (31 December, 1990), 14-15.

"Did Sanctions Matter?" *New York Times* (22 July 1991).

"In Cable War, Consumers Get Snagged," *Wall Street Journal* (2 October, 1992).

"The Case for Cable Competition," *City Journal* (Winter 1992).

"The Forgotten Continent," review of George B. N. Ayitteh's, Africa Betrayed, *Wall Street Journal* (17 March 1993).

"Why Your Cable Bill Is So High," *Wall Street Journal* (24 September, 1993).

"How Home Shopping Became King of Cable," *Wall Street Journal* (14 July, 1994).

"Strike Out: Economic Logic Loses in Baseball Strike," *Chicago Tribune* (16 September, 1994).

"Spectrum Auctions -- Only a First Step," *Wall Street Journal* (20 December, 1994).

"Station Brakes: The Government's Campaign Against Cable Television," *Reason* (February 1995), 41-47.

"How Washington 'Saved' Us From Cable," *Wall Street Journal* (23 March, 1995), A14.

"The Czech Miracle: Why Privatization Went Right in the Czech Republic," *Reason* (April 1995), 28-35.

"Cable Controls: Lower Rates, Lower Quality," *Wall Street Journal* (14 July, 1995), A12.

"Free the Airwaves," *The American Enterprise* (March/April, 1996), 71-2.

"The 'Public Interest' Fraud," *Wall Street Journal* (6 May, 1996), op-ed page.

"Industrial Policy for Couch Potatoes," *Wall Street Journal* (7 August, 1996), A-14.

Review of Thomas Streeter's Selling the Air, *Journal of Economic Literature* XXXV (September 1997), 1411-12.

"Velvet Devolution: What's Really Happening in the Czech Republic," *Reason* (March 1998).

"As Microsoft Goes, So Goes the Computer Industry," with George Bittlingmayer, *Wall Street Journal* (26 May, 1998), A14.

"Good Riddance to Cable TV Regulations," *Wall Street Journal* (1 April, 1999).

"Befuddled by 'Internet Time,' The Government's Pointless Lawsuit Against Microsoft," with George Bittlingmayer, *The Weekly Standard* (July 5/12, 1999), 23-26.

"AOL Time Warner: Everything Old is New Again Online," *National Post* (Jan. 19, 2000).

"The Vision Thing: Handing Broadcasters Valuable Spectrum for High-Definition TV Has Proven a Valuable Lesson in Misguided Gore-FCC Policy," *Forbes* (21 February, 2000), 36.

"Surprise, Surprise: Cable Rates Fall After Deregulation," *Barron's* (28 February, 2000).

“Why Nasdaq Loses When the Government Wins,” (with G. Bittlingmayer), *Wall Street Journal* (April 4, 2000).

“TV Smackdown! (Cable vs. Broadcast),” *Wall Street Journal* (May 5, 2000), A16.

“Tattletale Email,” *Forbes ASAP* (August 21, 2000), 194.

“Heavy Burden,” *Forbes ASAP* (Nov. 27, 2000), 270.

“Dim Bulbs: Blackouts Are Now Rolling through California, Why Not the Heads of State Regulators?” *San Diego Union-Tribune* (Jan. 28, 2001).

“Slicing through Static over the Telecommunications Act,” with Robert Crandall, *San Diego Union-Tribune* (February 25, 2001).

“Dialogue,” Debating Ken Auletta on U.S. v. Microsoft, *Slate Magazine* (Feb. 28/Mar. 1, 2001).

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