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BACKGROUND Born 1943, Worcester, Massachusetts • Attended public schools in

Millbury, Massachusetts • Married 1965 to the former Josetta

Knopf • Two children: Peter 1969 and Bradford 1974.

EDUCATION B.A. Economics. Williams College 1965.

Ph.D. Economics. Stanford University 1970.

PRESENT Stanford University: Senior Fellow, Stanford Institute for Economic POSITION Policy Research, 2015-; Morris M. Doyle Centennial Professor in Public

Policy (Emeritus).

PREVIOUS Stanford University: Gordon Cain Senior Fellow, Stanford Institute for POSTS Economic Policy Research 2003-2015. Morris M. Dovle Centennial

Economic Policy Research 2003-2015. Morris M. Doyle Centennial Professor in Public Policy and Director, Public Policy Program, School of Humanities and Sciences, 2005-2014. Professor of Economics (by courtesy) 2003-2014. Economists Incorporated: co-founder and CEO, 1981-2002, consultant 2003- • Stanford University: Visiting Professor of Economics, Stanford in Washington, 1989-2002, Assistant Professor

of Economics 1973-1978 • Antitrust Division, United States

Department of Justice: Chief Economist, 1979-1981 • Duke University:

Associate Professor of Business and Law, 1978-1980, Adjunct Professor of Public Policy, 1981-88 • White House Office of Telecommunications Policy: Chief Economist, 1971-1972.

MEMBERSHIPS AFFILIATIONS American Economic Association

FELLOWSHIPS Merit Scholar 1961-65; Woodrow Wilson Fellow 1966; National

Defense Education Act Title IV Fellow 1966-69; Brookings Institution Economic Policy Fellow 1970-1971; Hoover Institution National Fellow

1974-1975; Aspen Institute for Humanistic Studies Fellow and chairman, Task Force on the Future of the Postal Service 1978-79.

TEACHING Economic Analysis of Law (undergraduate)

UNIVERSITY Steering Committee, Stanford Institute for Economic Policy Research

SERVICE Advisory Board, Center for the Study of Poverty and Inequality

PUBLICATIONS

BOOKS

"Decorrupting Government" (unpublished draft monograph, 2013).

The Internet Challenge to Television, Harvard University Press, 1999.

Economics of a Disaster: The Exxon Valdez Oil Spill, Praeger, 1995. (with others)

Electric Utility Mergers: Principles of Antitrust Analysis, Praeger, 1994. (with M. Frankena)

Video Economics, Harvard University Press, 1992. (with S. Wildman)

The Political Economy of Deregulation, American Enterprise Institute, 1983. (with R. Noll)

The Regulation Game: Strategic Use of the Administrative Process, Ballinger, 1978. (with R. Braeutigam)

Economics and Freedom of Expression: Media Structure and the First Amendment, Ballinger, 1975.

Television Economics, D.C. Heath, 1974. (with J. Beebe, and W. G. Manning, Jr.)

CHAPTERS OR SECTIONS OF BOOKS

"Communication Policy Reform, Interest Groups, and Legislative Capture." In R. May, ed. Communications Law and Policy in the Digital Age: The Next Five Years. Carolina Academic Press, 2012

"Media Regulation," Oxford Companion to American Politics, Oxford Univ. Press 2012

"A Fresh Start in Communications Policy: Two Modest Reforms," in R. May, ed., New Directions in Communications Policy, Carolina Academic Press, 2009.

"Antitrust in China 2006: The Problem of Incentive Compatibility," in *Policy Reform and Chinese Markets*, B. M. Fleisher, et al., eds., Edward Elgar, 2008 (with S. Sun and W. Zheng).

"Local Broadband Access: Primum Non Nocere or Primum Processi? A Property Rights Approach," in T. Lenard and R. May, eds., *Net Neutrality or Net Neutering*, Springer, 2006. (with G. Rosston).

"Spectrum Allocation and the Internet," in Cyber Policy and Economics in an Internet Age, edited by William Lehr and Lorenzo Pupillo, 2003. (SIEPR Policy paper No. <u>01-009</u>) (with G. Rosston)

"Broadband Mysteries" in R. W. Crandall and J. H. Alleman, eds, Broadband: Should We Regulate High-Speed Internet Access? Brookings, 2002.

"Media as Industry: Economic Foundations of Mass Communication" in R. Islam, ed., *The Right to Know: Institutions and the Media*, World Bank, 2002.

"A Novel Conference: The Origins of TPRC," in J. MacKie-Mason and D. Waterman, eds., *Telephony, the Internet and the Media: Selected Papers from the 1997 Telecommunications Policy Research Conference*, Erlbaum, 1998; reprinted in S. Braman ed., *Communication Research & Policy: A Sourcebook*, MIT Press, 2002.

"The Future of Television: Understanding Digital Economics," in Noll and Price, eds., A Communications Cornucopia: Markle Foundation Essays on Information Policy. Brookings Institution, 1998.

United States v. AT&T: The Economic Issues, in Kwoka and White, eds., *The Antitrust Revolution*, Scott Foresman, 1988; 2nd ed. 1994. (with R. Noll)

"United States v. AT&T: An Interim Assessment," in Hausman and Bradley, eds., *Future Competition in Telecommunications*, Harvard Business School Press, 1988. (with R. Noll)

"Defining Geographic Markets under the 1984 Merger Guidelines: An Economic Perspective (Outline)," in Practicing Law Institute, 27th Annual Advanced Antitrust Seminar, Course Handbook Series No. 581, PLI, 1987.

"The Rise and Fall and Rise of Cable Television Regulation," in L. Weiss, ed. Regulatory Reform: What Actually Happened, Little, Brown, 1986. (with P. Gottlieb)

Horizontal Mergers: Law and Policy, ABA Section of Antitrust Law Monograph No. 12, 1986. (contributor)

"Program Competition in the New Video Industry," in E. Noam, ed., Rivalry Among the Video Transmission Media, Columbia Univ. Press, 1985. (with S. Wildman)

"Interest Group Behavior and the Political Economy of Regulation," in J. Meyers, ed., *Incentives vs. Controls in Health Policy: Broadening the Debate*, AEI, 1985.

"Some Economic Implications of the Divestiture of the Bell Operating Companies," in H. Shooshan, ed., Disconnecting Bell, Pergamon Press, 1984. (with R. Crandall)

The Use of Economists in Antitrust Litigation, J. Greenfeld, ed., ABA Section of Antitrust Law, 1984. (contributor)

"Economic and Postal Pricing Policy," in J. Fleishman, ed., *The Future of the Postal Service*, Praeger, 1983. (with R. Willig)

"Differing Media, Differing Treatment?" in D. Brenner and W. Rivers, eds., Free But Regulated: Conflicting Traditions in Media Law, 1982.

"The Rise and Fall of Cable Television Regulation," in L. Weiss, ed., *The Regulatory Revolution*, Little, Brown, 1981.

"Diversity and Television," OTP Staff Research Paper, 1972, reprinted in D. H. Ginsburg, Regulation of Broadcasting, West, 1979.

"Alternative Structures for Television," OTP Staff Research Paper, 1972, reprinted in D. H. Ginsburg, *Regulation of Broadcasting*, West, 1979. (with J. H. Beebe)

"The Place of Print in an Electronic Society," in G. O. Robinson, ed., *Communications for Tomorrow: Policy Perspectives for the Future*, Praeger, 1978.

"Cable Television: The Framework of Regulation," in Study on Federal Regulation, App. to Vol. XI, Framework for Regulation, Comm. on Govt'l Affairs, United States Senate, 95th Cong., 2nd Session, October 1978.

"Economic Policy Research on Cable Television: Assessing the Cost and Benefits of Cable Deregulation," in P. A. MacAvoy, ed., *Deregulation of Cable Television*, American Enterprise Institute, 1977. (with others)

"The Role of Analysis in the Formation of Cable Television Policy," in R. E. Park (ed.) *The Role of Analysis in Regulatory Decision Making: The Case of Cable Television*, Lexington Books, 1973.

ARTICLES

"Antitrust and Vertical Integration in 'New Economy' Industries with Application to Broadband Access," *Review of Industrial Organization* 38:4 363-386, 2011. DOI: 10.1007/s11151-011-9291-y

"The Temptation of Media Regulation," Regulation, Vol. 31, No. 1, Spring 2008

"Antecedents to Net Neutrality," *Regulation* (Fall 2007) http://www.cato.org/pubs/regulation/regv30n3/v30n3-3.pdf

"China's Competition Policy Reforms: The Antimonopoly Law and Beyond," 75 Antitrust Law Journal 401 (2008) (with Su Sun and Wentong Zheng)

http://papers.ssrn.com/sol3/papers.cfm?abstract_id=978810 Reprinted in Library of Essays on Chinese Law, Volume III, Law and the Market Economy in China, Perry Keller, ed., 2011.

"Antitrust in China: The Problem of Incentive Compatibility," 1 Journal of Competition Law and Economics Winter, 123-48, 2005, (with Su Sun and Wentong Zheng). http://ssrn.com/abstract=595801

"Assigning Broadband Rights," *Regulation*, Summer 2004. http://www.cato.org/pubs/regulation/regv27n2/v27n2-2.pdf

"Coordinated Interaction and Clayton Enforcement," 12:1 Geo. Mason L. Rev. 89, 2003 (with Stuart Gurrea) http://papers.ssrn.com/sol3/papers.cfm?abstract_id=406840

"Regulatory Reform: The Telecommunications Act of 1996 and the FCC Media Ownership Rules" 2003 *Michigan State-DCL Law Review* 671, 2003. http://papers.ssrn.com/sol3/papers.cfm?abstract_id=406261

"Determining Optimal Access to Regulated Essential Facilities," 58 Antitrust Law Journal 887, 1989.

"Competitive Policy Considerations in Cable Television Franchising" 4 Contemporary Policy Issues 69, April 1986. (with P. Greenhalgh)

"The Evolution of Clayton §7 Enforcement and the Beginnings of U.S. Industrial Policy" 31 Antitrust Bulletin 409, Summer 1986. (Reprinted in D. Audretsch, ed., Industrial Policy and Competitive Advantage, Edward Elgar, 1997.)

"An Economic Analysis of Alternative Fee Shifting Systems" 47 Law and Contemporary Problems 801, 1984. (with R. Braeutigam and J. Panzar)

"Structural Approaches to the Problem of TV Network Economic Dominance," 1979 Duke Law Journal 191, 1979

"Diversity in Broadcasting: The Economic View of Programming," 28 Journal of Communication 43, Spring 1978.

"Television Programming, Monopolistic Competition and Welfare," 91 *Quarterly Journal of Economics* 103, February 1977. (with A. M. Spence)

"Kickbacks, Specialization, Price Fixing, and Efficiency in Residential Real Estate Markets," 29 Stanford Law Review 931, May 1977. (with J. Grundfest)

"Regulating Diversity: The Case of Radio Formats," 21 Journal of Broadcasting 305, Summer 1977.

"Television Rivalry and Network Power," 24 Public Policy 33, Winter 1976. (with W. Manning)

"Newspaper and Television Station Joint Ownership," 18 Antitrust Bulletin 787, Winter 1973.

"Monopoly Pricing in Combined Gas and Electric Utilities," 15 Antitrust Bulletin 713, Winter 1970.

"Public Policy and Emerging Technology in the Media," 18 *Public Policy* 539, Summer 1970.

NOTES AND REVIEWS

"The FCC and the Unfree Market for TV Program Rights," Free State Foundation, Perspectives from FSF Scholars, March 2011.

"Saving Mt. Wilson -- and Increasing Spectrum Efficiency," Free State Foundation, Perspectives from FSF Scholars, October 27, 2009.

"A Better Way to Manage Spectrum," Free State Foundation, Perspectives from FSF Scholars, April 6, 2009.

"<u>The Temptation of Media Regulation</u>," Free State Foundation, Perspectives from FSF Scholars, May 1, 2008

<u>Book review</u> of Beato and Laffont, eds. *Competition Policy in Regulated Industries: Approaches for Emerging Economies. Journal of Economic Literature.* 2005.

"Imported Antitrust," Review of Michal Gal, *Competition Policy for Small Market Economies*, 21 *Yale Journal on Regulation* 441 2004. http://papers.ssrn.com/sol3/papers.cfm?abstract_id=525042

Book Review of G. W. Brock, Telecommunications Policy for the Information Age, 34 *Journal of Economic Literature* 797 1996.

Book Review of F.M. Scherer, Competition Policies for an Integrated World Economy, 33 *Journal of Economic Literature* 1993, 1995.

"Flawed Reasoning," Public Utilities Fortnightly, July 15, 1993. (with M. Frankena)

"Antitrust Analysis of Electric Utility Mergers After the Energy Policy Act," International Merger Law, No. 30, February 1993. (with M. Frankena)

"Merger Control in Argentina," International Merger Law, No. 27, November 1992.

"Competitive Issues in Electric Utility Mergers," International Merger Law, No. 26, October 1992. (with M. Frankena)

"The Electronic Media," in Proceedings of the 1990 Stanford Symposium on Democracy, Diversity, and News Media Ownership (forthcoming).

<u>Book Review</u> of P. Temin, The Fall of The Bell System, 1988 *Regulation*: AEI Journal on Government and Society 2.

Book Review of A. Brown, Commercial Media in Australia: Economics, Ownership, Technology and Regulation, 17 *Economic Analysis and Policy* (n.s.) 105, March 1987.

"Recent Developments in Cable Television Regulation," 1 Regulatory Reform: The ABA Section of Antitrust Law Industry Regulation Committee Newsletter, December 1985.

"Cynicism and Credulity in Explaining Regulation," in *The Political Economy of Regulation: Private Interests in the Regulatory Process*, FTC Law and Economics Conf., March 1984.

Book Review of F. Fisher, et al., Folded, Spindled, and Mutilated: Economic Analysis of U.S. v. IBM, *Sloan Management Review*, Winter 1984.

R. G. Noll and B. M. Owen, "What Makes Reform Happen?" *Regulation*, March/April 1983.

"Discussion" prepared for the Session on the Economics of the First Amendment, annual meetings of the American Economic Association, New York, December 1973, 64 American Economic Review 400, May 1974.

"Comment on the Perfectly Competitive Allocation of Public Goods," *Review of Econ.* and Statistics, November 1969.

CONFERENCE PROCEEDINGS

Papers and Proceedings, 1972 Conference On Telecommunications Policy Research, Office of Telecommunications Policy, 1972. (editor)

Report of Papers and Proceedings, 1975 Conference on Telecommunications Policy Research, Aspen Institute for Humanistic Studies Program on Communications and Society, 1975. (editor)

OTHER

"Net Neutrality: Is Antitrust Law More Effective than Regulation in Protecting Consumers and Innovation?" <u>Testimony of Bruce M. Owen before the U.S. House of Representatives, Committee on the Judiciary, Subcommittee on Regulatory Reform, Commercial and Antitrust Law, June 20 2014. http://ssrn.com/abstract=2463823.</u>

Decorrupting Government: The United States Board of Overseers. working paper. 2013.

Consumer Welfare and TV Program Regulation, Mercatus Center Report May 2012

<u>Communication Policy Reform, Interest Groups, and Legislative Capture</u>, working paper 2012.

Shooting in the Dark: Comments, CeLPU & CTIC Fourth International Conference on Equal Access Issues in Communications Law, Honolulu, November 26, 2010

Antitrust and Vertical Integration in 'New Economy' Industries: Application to Broadband Access Stanford Law and Economics Olin Working Paper No. 400. October 26, 2010.

Old Media Policy Failures, New Media Policy Challenges, Keynote Speech, Conference on the Future of Public Broadcasting, University of Bayreuth, Germany May 2009

Comments of 71 Concerned Economists: Using Procurement Auctions to Allocate Broadband Stimulus Grants,

http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1377523 2009

"Supreme Court Amicus Brief Regarding Morgan Stanley Capital Group Inc. v. Public Utility District No. 1 of Snohomish County, Washington" (November 01, 2007). Baumol, William J., Blaydon, Colin, Cicchetti, Charles J., Dubin, Jeffrey A., Fisher, Franklin M., Hahn, Robert W., Hausman, Jerry A., Hogan, William W., Kalt, Joseph P., Kleindorfer, Paul R., Michaels, Robert J., Owen, Bruce M., Pirrong, Craig, Salinger, Michael A, Shavell, Steven, Smith, Vernon, Stulz, Rene, Sweeney, James L., Willig, Robert D. and Wolfram, Catherine D., AEI-Brookings Joint Center Brief No. 07-02 Available at SSRN: http://ssrn.com/abstract=1034200

Bamberger, G., Baumann, M., Gale, J. Hazlett, T., Katz, M., Mikkelsen, K., and Owen, B., Economists Joint Letter on Bundling of Cable Programming, FCC Docket MB 04-207, 2004

Promoting Efficient Use of Spectrum Through Elimination of Barriers to the Development of Secondary Markets in Promoting Efficient use of Spectrum Through Elimination of Barriers to the Development of Secondary Markets, FCC WT Docket No. 00-230, (with 36 other concerned economists) February 7, 2001.

"Brief of Economists Amici Curiae," State of New York, et al., v. Microsoft, United States District Court (DC), (with others) June 18, 2002.

"Lies, Damn Lies and the Legal Fictions of American Broadcast Regulation," presented at American Enterprise Institute Conference on the Role of Government in the Transition to Digital Television, October 26, 2001.

"Vertical Integration by Cable Systems," prepared for ABA Section of Antitrust Law, Cable Television: Was Regulation Right or Wrong?, National Symposium on Competition in the Cable Television Industry, Washington, D.C., June 12, 1990.

"Economic Incentives and Legal Reform," <u>Perspectives</u>: Journal of the Overseas Young Chinese Forum, (English edition). (with J. Portillo) June 2003

"Economists as Trustbusters?" Wall Street Journal, January 22, 1987.

"Cable Competition at Sufferance of Cities," Wall Street Journal, May 9, 1985.

"Give AT&T the Freedom It Didn't Want," Wall Street Journal, December 6, 1984.

"How Roles Grew in a TV Rule-Making Drama" Wall Street Journal, October 19, 1983. (with R. Noll)

"A Most Expensive 'Real Estate Custom,' "Los Angeles Times, December 4, 1977. (with J. Grundfest)

RESEARCH REPORTS

"The Net Neutrality Debate: Twenty Five Years after United States v. AT&T and 120 Years after the Act to Regulate Commerce" Stanford Institute for Economic Policy Research Working Paper 06-15 February 2007. http://siepr.stanford.edu/papers/pdf/06-15.html

"Antitrust in China 2006: The Problem of Incentive Compatibility," August 2006, (with Su Sun and Wentong Zheng). Working Paper, Stanford Center for International Development. http://siepr.stanford.edu/papers/pdf/03-40.html

"Confusing Success with Access: 'Correctly' Measuring Concentration of Ownership and Control in Mass Media and Online Services Stanford Law and Economics Olin Working Paper No. 283, SIEPR Policy Paper No. 03-026. http://papers.ssrn.com/sol3/papers.cfm?abstract_id=545302 May 2004

"Cable Networks: Bundling, Unbundling, and the Costs of Intervention," Economists Incorporated, July 2004 (with John Gale).

"The Effect of Controlling for Frequency Band (UHF/VHF) When Comparing the Quantity of Local News and Public Affairs Programming on Television Broadcast Network Owned and Operated Stations Relative to Network Affiliate Stations." Economists Incorporated. Filed at FCC May 12, 2003. (with M. Baumann and R. Mortimer)

"Affiliate Clearances, Retransmission Agreements, Bargaining Power and the Media Ownership Rules." Economists Incorporated. Filed at FCC April 21, 2003. (with M. Baumann and K. Mikkelsen)

"The Project for Excellence in Journalism's PEJ Study of Ownership and Quality of Newscasts: A Critique. Economists Incorporated. Filed at FCC March 13, 2003. (with M. Baumann and K. Mikkelsen)

"News and Public Affairs Programming: Television Broadcast Network Owned and Operated Stations Compared to Network Affiliated Stations." Economists Incorporated. Filed at FCC December 19, 2002. (with K. Mikkelsen, R. Mortimer, and M. Bauman)

"Statement on Media Ownership Rules." Economists Incorporated. Filed at FCC January 2, 2003.

"News and Public Affairs Programming Offered by the Four Top-Ranked Versus Lower-Ranked Television Stations." Economists Incorporated. Filed at FCC January 2, 2003. (with K. Mikkelsen and A. Ivory)

"Effect of Common Ownership or Operation on Television News Carriage, Quantity and Quality. Economists Incorporated. Filed at FCC January 2, 2003. (with K. Mikkelsen, R. Mortimer, and M. Baumann)

"Comments on FCC Ownership Study #10. Economists Incorporated. Filed at FCC January 2, 2003. (with M. Baumann, R. Mortimer, and K. Mikkelsen)

"Comment On FCC Ownership Study #4. Filed at FCC January 2, 2003. (with M. Baumann and R. Mortimer)

"Concentration Among National Purchasers of Video Entertainment Programming." Economists Incorporated. Filed at FCC January 2, 2003. (with M. Baumann)

"Counting Outlets and Owners In Milwaukee: An Illustrative Example." Economists Incorporated. Filed at FCC January 2, 2003. (with K. Mikkelsen)

"Preemption By O&Os Compared To Affiliates. Economists Incorporated. Filed at FCC January 2, 2003. (with M. Baumann and A. Ivory)

"News and Public Affairs Programming: Television Broadcast Network Owned and Operated Stations Compared To Network Affiliated Stations." Economists Incorporated. Filed at FCC January 2, 2003. (with K. Mikkelsen, R. Mortimer and M. Baumann)

"Economic Comments on Media Ownership Issues. Economists Incorporated. Filed at FCC February 3, 2003. (with M. Baumann and K. Mikkelsen)

"Competition Policy in Latin America" Stanford Law and Economics Olin Working Paper No. 268. http://ssrn.com/abstract=456441 SIEPR Policy Paper No. 03-003. (October 2003).

"Legal Reform, Externalities and Economic Development: Measuring the Impact of Legal Aid on Poor Women in Ecuador" May 2003. Stanford Law and Economics Olin Working Paper No. 255; Stanford Law School, Public Law Working Paper No. 55. http://ssrn.com/abstract=406260 SIEPR Policy Paper No. 02-032 (with J. Portillo)

Impact of Legal Aid: Ecuador, World Bank, 2003. (with others)

An Economic Approach to Project Impact Measurement and Evaluation Methods in Legal and Judicial Reform, World Bank, 2002 [DRAFT]

"Cable Modems, Access and Investment Incentives," report prepared for the National Cable Television Association, December 1998. (with G. Rosston)

Competition Policy in Peru: Report and Recommendations, November 1995. (with others)

An Economic Analysis of the Broadcast Television National Ownership, Local Ownership and Cross-ownership Rules, May 17, 1995, 2 vols. (with others)

An Economic Analysis of the Prime Time Access Rule, March 7, 1995, and A Supplementary Analysis of the Prime Time Access Rule, May 26, 1995. (with others)

Cable Rate Regulation—A Multi-Stage Benchmark Approach, January 1993. (with others)

Competition Policy and Consumer Protection in Argentina, Report of the Advisory Team to the Government of Argentina, July 1992. (with others)

An Economic Analysis of the Effect of the Exxon Valdez Oil Spill on Alaskan Seafood Prices, Report to the Trans-Alaska Pipeline Liability Fund, December 1991. (with others)

Competition Policy in Jamaica, Report of the Advisory Team to the Government of Jamaica, January 1991. (with R. Skitol and R. Crandall)

Federal Antitrust Policy and the Incentive to Undertake Research and Development in the Information Technologies, prepared for the Office of Technology Assessment, U.S. Congress. Economists Incorporated Research Report, 1989. (with M. Spence and P. Greenhalgh)

Economic Effects of the Financial Interest and Syndication Rule. Economists Incorporated Research Report, 1983. (with R. Crandall and R. Noll)

A Framework for Economic Analysis of Electronic Media Concentration Issues. Economists Incorporated Research Report, 1982. (with K. Baseman)

Notes on the Merger Guidelines: Economic Perspectives, Economists Incorporated Research Report, 1982. (with P. Greenhalgh and W. Myslinski)

Five Propositions on the Social Effects of Television, prepared for the Sloan Foundation, Duke University, 1979.

Policy Options in Mobile Radio Spectrum Management, prepared under contract with the UHF Task Force of the FCC, Stanford University, 1978. (with D. Dunn)

Licensing of Real Estate Brokers as Underwritten Title Insurance Agents, Report to the State of California, Studies in Industry Economics #64, Stanford Univ., 1976. (with J. Grundfest)