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Degrees:

A.B., University of Oklahoma; Areas Of Concentration: Mathematics, General Science,
Political Science

Ph.D., Duke University: Economics

Selected Work Experience:

University of Washington: Professor, The Daniel J. Evans School of Public Affairs, 1981 to present; Adjunct Professor, School of Law, 1990 to present; Adjunct Professor, Department of Civil Engineering, 1980 to 1995; Adjunct Professor, Department of Economics – 1990; Acting Director, Program in Social Management of Technology, 1976-77.

Northwestern University: Visiting Associate Professor of Economics, 1972-76.

University of Chicago: Research Associate, Department of Economics, 1972-76.

Roosevelt University: Associate Professor of Economics, 1971-76.

American Bar Foundation: Affiliated Scholar, 1972-74.

American Bar Foundation: Scholar in Residence, 1971-72.

University of Chicago: Research Fellow in Law and Economics, 1969-71.

Awards, Grants and Honors:

Grant from NSF and Pacific Earthquake Engineering Research Center, PEER, 1999, 2000, 2001

Offered Distinguished Fulbright Lectureship, Manila and Ireland, 1998

RAND Research Grant, Summer 1995

Olin Fellow, Yale Law School, Fall 1990

NBER Research Award, 1978

Sea Grant, 1977-78

Scholar in Residence: American Bar Foundation
Research Fellow in Law and Economics, University of Chicago, 1969-71
The Council of Law Related Studies, Harvard, 1971
Ford Foundation Grant (with P.S. Laumas), 1969
Ontario Department of Public Health, Research Grant, 1968
Marshall University Student Senate Teaching Award, 1965
Duke University Scholarship, 1963

Senior Editor:

Research in Law and Economics: A Research Annual, 1979-present

Public Service:

Member of Scientific Committee for European Law and Economics Project
Consultant to Regional Commission for Airline Affairs, 1992
Consultant, Federal Trade Commission
Commissioner, Regional Taxicab Commission
Board of Economic Advisors to the Economics Committee of the ABA Antitrust Section
Executive Committee of Western Economic Association (1994-97)

Selected Professional Associations:

American Law and Economics Association (founding member: past member of Board of Directors)

PUBLICATIONS:***Books:***

Benefit –Cost Analysis , , Edward Elgar, 2006 (with Allen Bellas)

Efficiency in Law and in Economics, Edward Elgar, 2001

Environmental Economics (with Jonathan Lesser and Daniel Dodds), Addison Wesley, March 24 1997.

Benefit Cost Analysis in Theory and Practice (with D. Dively), Harper Collins, 1994

Urban Transportation for the Environment, (with K. Croke). Ballinger, 1975.

Chapters in Books:

- "Is there Cultural Progress? 2002. *The Progress Project: Progress and Public Policy?*
Lexington Press
- "Facilitating Regulatory Design and Stakeholder Participation: The Fera Template with an Application to the Clean Air Act", in *Improving Regulation: Cases in Environment, Health, and Safety*, (ed. Paul Fischbeck and R. Scott Farrow) Resources for the Future (with others), 2001, pp. 429-442.
- "A Practitioner's Guide to Benefit Cost Analysis" (with Jonathan Lesser) in *The Handbook of Public Finance* (ed. by Frederick Thompson), Marcel Dekker, 1998. (peer reviewed)
- "The Coase Theorem", (with Steve Medema), Bouckaert and DeGeest (eds.) *The Encyclopedia of Law and Economics*, vol. 1 2000, pp. 836-892. Aldershot: Edward Elgar (peer reviewed)
- REPRINTED, 1998, In *The Foundations of Regulatory Economics* (ed. by R. Ekelund)
"The Costs and Benefits of Early Regulation of the Railroads," *Bell Journal of Economics*, (now the *RAND Journal of Economics*), 11(1), Spring 1980, pp. 343-350. (peer reviewed)
- "Ronald Coase, the British Tradition, and the Future of Economic Method" (with Steven G. Medema) in *Coasean Economics: Law and Economics and the New Institutional Economics* (ed. by Steven G. Medema), Boston: Kluwer Academic Publishers, forthcoming 1997. (peer reviewed)
- REPRINTED 1996 in *An Antitrust Anthology*, (ed. by Andrew Gavin), "An Empirical and Theoretical Comparison of Alternative Predation Rules," (with Donald Cooper), *University of Texas Law Review*, Vol. 61, 1982. (peer reviewed)
- "Environmental Regulations and Urban Traffic" (with K.G. Croke), in *Environmental Pollutants and the Urban Economy* (ed. by George Tolley), Cambridge, Ballinger Press, 1981.
- "The Problem of Social Cost: Fifteen Years Later" in *Externality Theory and Measurement* (ed. by Lin), Academic Press, Fall 1976. (peer reviewed)
- "The Effect of the Energy Crisis on Environmental Regulation" in *Energy Versus the Environment* (ed. by Holleb and Alexander), University of Chicago Press, 1976.

"Transportation Control Issues in Air Quality Maintenance" (with A. Cohen and K. Croke) in *Regional Issues in Air Quality Maintenance* (ACPA), 1975.

"Antitrust Cases as a Guide to Directions in Antitrust Research and Policy" in *Priorities in Antitrust* (edited by J. Dalton and S. Levine), D.C. Heath, 1974. (peer reviewed)

"The Rationale for Government Intervention" in *Contemporary Canadian Problems* (ed. by Reid), 1969.

Articles:

- "What is Economic Efficiency", Encyclopedia of Law and Society: American Global Perspectives, Russell Sage Foundation, 2005 (forthcoming)
- Predatory Bidding and The Ross Simmons Case, *The Antitrust Journal*, vol. 72, number 2, 2005
- "An Aggregate Measure for Benefit-Cost Analysis", accepted *Ecological Economics*-(I am lead author). (note reviewer gave this the highest possible rating.), forthcoming 2006
- "Should Moral Sentiments Be Incorporated into Benefit-Cost Analysis? An Example of Long-Term Discounting", accepted by *Policy Sciences*, March 2005, forthcoming 2006
- "An Economic Justification for a Price Standard in Merger Policy: The Merger of Superior Propane and ICG Propane" 2004, *Antitrust Law and Economics, Research in Law and Economics*, 21, 409-444 (with Sunny Knott). (edited by John Kirkwood)
- "Can Law and Economics Stand the Purchase of Moral Satisfaction?", 2002. *Research in Law and Economics* 20
- "Culture and Fairness in the Development of Institutions in the California Gold Fields" 2001, 61(1) *Journal of Economic History*, pp114-143. (with Leigh Anderson)
- "On Distributive Justice and Economic Efficiency: An Integrated Theory of the Common Law", 2000. *Research in Law and Economics* (with Brian Wasankari and Steven Vinyard)

- “Educating Alice: Lessons from the Coase Theorem” 2000. *Research in Law and Economics*, (with Steven Medema), pp. 69-112.
- “The End of Market Failure”, 2000. *Regulation Magazine* (with Howard McCurdy).
- “The Role of Rights in Benefit Cost Methodology: The Example of Salmon and Hydroelectric Dams”, (with Linda Graham), 1999, *University of Washington Law Review*, 74 (3), pp. 763-797.
- “The Failure of Market Failure”, (with Howard McCurdy), Fall 1999. *Journal Of Policy Analysis And Management*, 18(4) pp. 558-578.
- “Risk Estimation and Value of Information Analysis for Three Proposed Genetic Screening Programs for Chronic Beryllium Disease Prevention”, *Risk Analysis: An International Journal*, (with several co-authors) 1999.
- “Value-of-Information Analysis for Biomarkers: Susceptibility To Chronic Beryllium Disease at US D. O. E. Sites” 1998, (with other authors) *Proceedings of the Topical Meeting on Risk-Based Performance Assessment and Decision Making*, pp. 2205-213.
- “An Integration of Equity and Efficiency”, (1998c) 73 *Washington Law Review* April, 1998, pp. 349-361.
- “Is Benefit Cost Analysis Legal?” Three Rules”, *Journal of Policy Analysis and Management*- 17 (3), 1998, pp. 419-456.
- “Does Predatory Pricing Exist?” (with Tom Mumford), *Antitrust Bulletin*, pp. 949-985 Winter 1996 (issue of journal devoted to essays in honor of Phil Areeda and Donald Turner; ed. by Roger Blair and Amanda Esquibel)
- “Anti-Consumer Effects of Union Mergers: An Antitrust Solution” (with Robert Lande), 46 *Duke Law Journal*, 1996, pp. 197-239.
- “Economically Efficient Treatment of Computer Software: Reverse Engineering, Protection, and Disclosure” (with Lawrence D. Graham), *Rutgers Computer and Technology Law Review*, 22(1), 1996, pp. 61-142.

- "What Can Economic Analysis Contribute to the 'Sustainability' Debate" (with J. Lesser), *Contemporary Economic Policy*, 13 (3), July 1995, pp. 88-100.
- "Discounting Procedures for Environmental (and Other) Projects: A Comment on Kolb and Scheraga" (with J. Lesser), *Journal of Policy Analysis and Management*, 13(1), Winter 1994, pp. 140-156
- "The Economics of Vertical Integration," published by *Ali-Aba (American Bar Association)*, 1992.
- "Comment: Does Benefit Cost Analysis Stand Alone? Rights and Standing," *Journal of Policy Analysis and Management*, 10(1), Winter 1991, pp. 96-105.
- "More Lessons From Japan: End Industrywide Collective Bargaining?" (with Robert Lande), *4 Asian Economic Journal*, pp. 28-42. September 1990.
- "Rawlsian Difference Principles and Economic Utilitarianism" (with Robert Plotnick), *Social Justice Research*, 2(3), September 1988.
- "Including the Public Interest in Theories of Regulation" (with Nicole Urban), *Research in Law and Economics*, Vol. 11, 1988, pp. 1-23.
- "Is the Attempt to Gain Status a Zero-Sum Game? A Comment on Coelho," *Research in Law and Economics*, Vol. 7, July 1985, pp. 117-121.
- "Reducing Unions' Monopoly Power: Costs and Benefits" (with Robert Lande), *Journal of Law and Economics*, 28(2), May 1985, pp. 297-310.
- "Seattle Taxis: Deregulation Hits a Pothole," *Regulation*, American Enterprise Institute, November/December 1983, pp. 43-48.
- "New Trip for Taxicabs: Deregulation in Seattle," *Washington Public Policy Notes*, 11(3), Summer 1983.
- "Consistency Among Cost-Benefit Criteria," *The International Journal of Policy Analysis and Information*, 7(1), June 1983, pp. 125-132.

- "The Chicago Board of Trade Case, 1918," *Research in Law and Economics*, Vol. 5, 1983, pp. 17-55.
- "An Empirical and Theoretical Comparison of Alternative Predation Rules," (with Donald Cooper), *Texas Law Review*, 61(4), December 1982, pp. 655-715. Reprinted in *An Antitrust Anthology*, ed. by A. Gavin, 1996.
- "Preface and Comment: Evolutionary Theory in Law and Economics," *Research in Law and Economics*, Vol. 4, 1982, pp. xi-xvi.
- "A Market Penetration Model for Residential Photovoltaic Deployment and Its Application in Washington State" (with G. Mesher, B. Hyman and C. Kippenhan), *Energy, The International Journal*, 7(7), July 1982, pp. 613-626.
- "The Origin and Effect of Grain Trade Regulations in the Late Nineteenth Century," *Journal of Agriculture History*, 56(1), January 1982, pp. 172-193.
- "Towards a Public Interest Theory of Regulation" (with Nicole Urban), *National Bureau of Economic Research*, 1980.
- "The Problem of Social Cost in Retrospect," *Research in Law and Economics*, Vol. 2, 1980, pp. 83-102.
- "Adjudicatory Hearings as Part of the NPDES Permit Process" (with G. Zemansky), *Ecology Law Quarterly*, 9(1), November 1980, pp. 1-66. (law school reviewed)
- "The Costs and Benefits of Early Regulation of the Railroads," *Bell Journal of Economics*, (now the *Rand Journal of Economics*), 11(1), Spring 1980, pp. 343-350.
- "Research and Development by Smaller Firms," *Journal of Contemporary Business*, 5(2), Spring 1976, pp. 91-114.
- "Optimal Environmental Jurisdictions," *Ecology Law Quarterly*, 4(2), September 1974, pp. 193-245.

- "Theoretical Efficiency in Pollution Control – Reply," *Western Economic Journal*, 9(3), September 1971, pp. 314-316.
- "The Relative Stability of Monetary Velocity and Investment Multiplier in Canada" (with P. S. Laumas), *The Journal of Money, Credit, and Banking*, November 1971, pp. 867-877.
- "Theoretical Efficiency in Pollution Control," *Western Economic Journal*, 8(4), December 1970, pp. 364-376.
- "Monopoly, The Emergence of Oligopoly and the Case of Sugar Refining," *Journal of Law and Economics*, 13(2), October 1970, pp. 501-515.
- "The American Sugar Refinery Company, 1887-1914: The Story of a Monopoly," *Journal of Law and Economics*, 12(2), October 1969, pp. 339-375.

Selected Reports, Editorial Opinions and Published Proceedings:

The Use of Benefit-Cost Analysis in Performance Base Earthquake Design, Report to NSF/PEER, 2002

Bankruptcy Reform, *Journal American*, August, 1997 (with Tom Mumford)

"Earth Day Then and Now," editorial opinion, *Seattle Times*, April 16, 1995.

"Affirmative Action," *Seattle Times*, October 11, 1995.

"The Economist's Role in Takings Cases," paper prepared for the Washington Law School Foundation for a continuing education class, March 1995.

"The Relationship Between Transmission Lines and Property Values," report prepared for Halinen & Associates, 1992.

"Antitrust Policy in the Presence of Network Externalities," report submitted to the Federal Trade Commission, 1992, in connection with a non-public investigation.

"An Economic Analysis of Anticompetitive Foreclosure in the Market for IBM-compatible PC Operator System Software," report submitted to the Federal Trade Commission, 1992, in connection with a non-public investigation.

"Market Concentration and Innovation," report submitted to the Federal Trade Commission, 1992, in connection with a non-public investigation.

"A Critique of the EIS by the Puget Sound Air Transportation Commission," 1992, prepared for a citizens' group.

"Should We Re-Regulate Cable TV," editorial opinion, *Seattle Times*, Spring 1990.

- "Economic Analysis of Proposed Water Quality Standard for Ground Waters of the State of Washington," WAC-173-290, (with Carolyn Madden), Spring 1990.
- "Small Business Economics Impact Statement for Proposed Water Quality Standards for Ground Water for the State of Washington," WAC-173-290, (with Dan Carlson), Winter 1990.
- "The Method of Determining Comparable Cities," report to the Portland Police Guild, 1984.
- "A Cost-Benefit Analysis of Two Energy Saving Technologies," report to the University of Chicago/Argonne and ERDA, 1977.
- "An Economic Evaluation of Environmental Regulations for the Motor Racing Industry in Illinois," report to Illinois Institute of Environmental Quality (200 pages), 1976.
- "Economic Analyses of Transportation Emission Control Strategies," (with K.G. Croke and E.J. Croke). *Proceedings of the 69th Annual Meeting of the Air Pollution Control Association*, Portland, Oregon, June-July 1976.
- "An Economic and Environmental Analysis of Delays in Certain Combined Sewer Overflow Regulations," report to Illinois Institute of Environmental Quality (50 pages), 1976.
- "Transportation Control Issues for Air Quality Maintenance," (with K.G. Croke and A. Cohen). *Proceedings of Lake Michigan States Section, Air Pollution Control Association Conference on Long Term Maintenance of Clean Air Standards*, pp. 298-311, Chicago, 1975.
- "Environmental Pollutants and the Urban Economy," report to the National Science Foundation, 1974.
- "The Illinois Pollution Control System," report to the American Bar Foundation and the Law and Economics Program of the University of Chicago (two volumes, 600 pages), 1972.
- "A Cost-Benefit Analysis of Air Pollution in Toronto," report to the Ontario Department of Environmental Control (300 pages), 1969. (Property Value Study)
- "A Test of the Friedman Meiselman Hypothesis with Canadian Data," report to the Ford Foundation (250 pages), 1969.

Selected Book Reviews:

- Minding America's Business*, by Magaziner and Reich, reviewed for *Growth and Change*, 1984.
- The Chicago Board of Trade, 1859-1905, The Dynamics of Self-Regulation*, by Jonathan Lurie, University of Illinois Press, 1979, reviewed for *Journal of Agriculture History*, 1981.
- The Pollution Crisis/Official Documents*, edited by Rabin and Schwartz, 1972, reviewed for *International Journal of Water, Air and Soil Pollution*, 1972, p. 462.

American Enterprise: Free and Not So Free, by Clarence Cramer, reviewed for *Growth and Change*.

Land Use Without Zoning, by Bernard Siegan, reviewed for American Bar Association Journal, Nov. 1972, p. 1170.

Referee:

Journal of Political Economy, *American Economic Review*, *Journal of Law and Economics*, *Journal of Economic Literature*, *Economic Inquiry*, *Law and Policy*, *Contemporary Economic Policy*, *Journal of Policy Analysis and Management* and other journals.

Academic References:

D. McCloskey, Professor of Economics, University of Iowa

Steven Medema, Chair, Dept of Economics, University of Colorado at Boulder

John L. Peterman, Law and Economics Consulting Group

George Tolley, Professor of Economics, University of Chicago

Hubert Locke, Professor & Dean Emeritus, Graduate School of Public Affairs, University of Washington

Robert Lande, Professor of Law, University of Baltimore

Guido Calabressi, former Dean, Yale Law School

Ronald Coase, Professor Emeritus, University of Chicago

Mitchell Polinsky, School of Law, Stanford Law School

John Kirkwood, Seattle University School of Law

Peter Reuter, University of Maryland School of Public Affairs

Sandra Archibald, Dean, School of Public Affairs, University of Washington