

### **Description of Economic Damages Data**

In order to analyze the potential economic damages resulting from the discharges of dioxin and other hazardous substances from the Lister Site, the State retained for purposes of this litigation an economist, Dr. Charles J. Cicchetti, as an expert witness to review the relevant evidence. During that process, Dr. Cicchetti collected economic data that is included in the Administrative Record.

Dr. Cicchetti has substantial experience in environmental economics, econometrics and damage analysis. He received his PhD in economics from Rutgers in 1969. He was a post doctoral fellow at Resources for the Future from 1969 to 1972, and soon after completing his post doctoral work, he was the first economist for the Environmental Defense Fund. Dr. Cicchetti has an extensive academic and professional background. He was a tenured Professor of Economics and Environmental Studies at the University of Wisconsin, and while there, he taught the first university undergraduate level course in environmental economics in the United States. He chaired the Public Service Commission of Wisconsin in the late-1970s and pursued a strong environmental and energy efficiency agenda. He was the Deputy Director of the Energy and Environmental Policy Center at Harvard University from 1985 until 1990. Later, Dr. Cicchetti was the Miller Chair in Government, Business and the Economy at the University of Southern California and taught environmental economics there. Additionally, Dr. Cicchetti has provided consulting expertise in natural resource damages valuation matters. Dr. Cicchetti also has experience identifying whether or not proximity to an environmental amenity or disamenity has an impact on property values. (A copy of Dr. Cicchetti's curriculum vitae is attached.)

Dr. Cicchetti did not issue a report, but the information that he collected and considered confirms that the discharges from the Lister Site had a negative impact on property values, economic development in the area, and the State's tax revenues. The data in the Record includes information on hazardous substances present at all EPA NPL sites in New Jersey, including the Lister Site, and property valuation data over multiple years on properties in the State of New Jersey. Data regarding tax rates, other economic indicators and geographic conditions is also included. GIS and statistical regression analyses of this data confirm an association between a decrease in property values and proximity to the Lister Site, and the loss of State revenues, as the result of Lister Site discharges. These results demonstrate economic damages to the State of New Jersey.

**CHARLES J. CICCHETTI****PROFESSIONAL EXPERIENCE**

2008-present	Senior Advisor to Navigant Consulting, Inc.;
1996-present	Co-Founder, Pacific Economics Group, a California LLC;
1998-2006	Jeffrey J. Miller Professor in Government, Business, and the Economy, University of Southern California;
1992-1996	Managing Director, Arthur Andersen Economic Consulting;
1991-2008	Adjunct Professor, University of Southern California
1991-1992	Co-Chairman, Putnam, Hayes & Bartlett, Inc.;
1988-1991	Managing Director, Putnam, Hayes & Bartlett, Inc.;
1987-1990	Deputy Director, Energy and Environmental Policy Center, John F. Kennedy School of Government, Harvard University;
1984-1987	Senior Vice President, National Economic Research Associates;
1980-1984	Co-Founder and Partner, Madison Consulting Group;
1979-1986	Professor of Economics and Environmental Studies, University of Wisconsin-Madison;
1977-1979	Chairman, Public Service Commission of Wisconsin, Appointed by Governor Patrick J. Lucey (member until 1980);
1975-1976	Director, Wisconsin Energy Office and Special Energy Counselor for Governor Patrick J. Lucey, State of Wisconsin;
1974-1979	Associate Professor, Economics and Environmental Studies, University of Wisconsin-Madison;
1972-1974	Visiting Associate Professor, Economics and Environmental Studies, University of Wisconsin-Madison;
1972	Associate Lecturer, School of Natural Resources of the University of Michigan;
1969-1972	Resources for the Future, Washington, D.C.;
1969	Post Doctoral Research: Ph.D., Economics, Rutgers University;
1968-1969	Instructor, Rutgers University;
1965	B.A., Economics, Colorado College;
1961-1964	Attended United States Air Force Academy.

**ADVISORY BOARDS**

Faculty Advisor to Campus Republicans at USC, 2002 to 2005  
Alliance for Energy Security; Former Member;  
Association of Environmental and Resource Economics, Former Executive Committee, Former Member;  
California ISO Market Advisory Group –Former Member appointed by Governor Gray Davis;

Center for Public Policy Advisory Committee, Former Member;  
Department of Energy, Fuel Oil Marketing Advisory Committee, Former Member;  
Graduate School of Public Policy at the University of California, Berkeley; Former  
Board Member;  
National Association of Regulatory Utility Commissioners, Executive Committee  
and Chairman of the Ad Hoc Committee on the National Energy Act, Former  
Member;  
Public Interest Economics Center, Board of Directors, Former Member;  
Rutgers University, Energy Research Advisory Board;  
U.S. Chamber of Commerce Energy and Natural Resources Committee, Former  
Member.

## **EDITORIAL BOARDS**

Journal of Environmental Economics and Management, Former Member  
Energy Systems and Policy, Former Member;  
Land Economics, Former Editor.

## **PUBLICATIONS**

### **Books and Monographs**

“Why EPA’s Mercury and Air Toxics Rule is Good for the Economy and  
America’s Workforce”, July 2011.

The Results in Context: A Peer Review of EEL’s “Potential Impacts of  
Environmental Regulation in the U.S. Generation Fleet.: May 11, 2011.

Expensive Neighbors: The Hidden Cost of Harmful Pollution to Downwind  
Employers and Businesses; by Charles J. Cicchetti, Ph.D., prepared for  
Exelon in response to EPA’s proposed Transport Rule under the Clean Air  
Act; January 2011.

“The True Cost of Harmful Pollution to Downwind Families and Business”, written  
by Charles J. Cicchetti, Ph.D., prepared for Exelon in response to EPA’s  
proposed Transport Rule under the Clean Air Act, November, 2010.

“Economic Regulation and the Development of Integrated Energy Systems”, with  
Mike Cleland and Sean Conway, ICES Literary Series, v.1 September 2012.

Going Green and Getting Regulation Right: “A Primer for Energy Efficiency”,  
PUR Publishers, March 2009.

Natural Gas: the Other California Energy Crisis, Pacific Economics Group Working Paper with Colin M. Long, November 2006.

The California Electricity Crisis: What, Why, and What's Next, with Jeffrey A. Dubin and Colin M. Long, Kluwer Academic Publishers, July 2004.

A Tarnished Golden State: Why California Needs a Public/Private Partnership for its Electricity Supply System, with Colin M. Long, August 2003.

Restructuring Electricity Markets: A World Perspective Post-California and Enron, with Colin M. Long and Kristina M. Sepetys, May 2003.

Energy Deregulation: The Benefits of Competition Were Undermined by Structural Flaws in the Market, Unsuccessful Oversight and Uncontrollable Competitive Forces, with Jeffrey A. Dubin, Jon Hockenyos, Colin M. Long and J.A. Wright. California State Auditor, Bureau of State Audits, Sacramento, California, March 2001.

Restructuring Electricity Markets: A World Perspective, with Kristina M. Sepetys, January 1996.

The Economic Consequence of Independent Film Making, Prepared for the American Film Marketing Association, with W.E. Peale, Stefan Boedeker, Jeffrey Dubin, Jeff Truitt, January 1995.

The Application of U.S. Regulatory Techniques to Spain's Electric Power Industry, with Irwin M. Stelzer, prepared for Unidad Electrica, S.A., Cambridge: Energy and Environmental Policy Center, Harvard University, March 1988.

The Economic Theory of Enhanced Natural Gas Service to the Industrial Sector: An Applied Approach, Vol. II with L.D. Kirsch, for the Gas Research Institute, Contract No. 5080-380-0349, February 1982.

The Economic Theory of Enhanced Natural Gas Service to the Industrial Sector: An Applied Approach, Vol. I with L.D. Kirsch and R. Shaughnessy, for the Gas Research Institute, Contract No. 5080-380-0349, May, 1981.

The Economic Effects of Deregulating Natural Gas, with R.H. Haveman, M. Lowry, M. Post and R. Schmidt, prepared for the Northeast Coalition for Energy Equity, Madison: MCG Monograph, 1981.

The Marginal Cost and Pricing of Electricity: An Applied Approach, with W. Gillen and P. Smolensky, Cambridge: Ballinger Publishing Company, 1977.

The Costs of Congestion: An Econometric Analysis of Wilderness Recreation, with V.K. Smith, Cambridge: Ballinger Publishing Company, 1976.

Energy System Forecasting, Planning and Pricing, ed. with W. Foell for the National Science Foundation, Madison: University of Wisconsin Monograph, 1975.

Studies in Electric Utility Regulation, ed. with J. Jurewitz for the Ford Foundation Energy Policy Project, Cambridge: Ballinger Publishing Company, 1975.

Perspective on Power: A Study of the Regulation and Pricing of Electric Power, with E. Berlin and W. Gillen for the Ford Foundation Energy Policy Project, Cambridge: Ballinger Publishing Company, 1974.

A Primer for Environmental Preservation: The Economics of Wild Rivers and Other Natural Wonders, New York: MSS Modular Publication, 1973.

Forecasting Recreation in the United States: An Economic Review of Methods and Applications to Plan for the Required Environmental Resources, Lexington: Lexington Books, June 1973.

Alaskan Oil: Alternative Routes and Markets, for Resources for the Future, Baltimore: Johns Hopkins University Press, December 1972.

The Demand and Supply of Outdoor Recreation: An Econometric Analysis, Ph.D. Thesis: Rutgers University, 1969. Also, with J.J. Seneca and P. Davidson, Washington, D.C.: U.S. Department of Interior, Bureau of Outdoor Recreation, Contract No. 7-14-07-4, 1969.

A Neo Keynesian Equilibrium Analysis For an Open Economy, A.B. Thesis, Colorado College, Colorado, Springs, Colorado, May, 1965.

## **PUBLICATIONS**

### **Journal Articles**

“Inflated Numbers; Erroneous Conclusions: The Navigant Wind Jobs Report”, American Energy Alliance, The National Center for Public Policy Research, March 2013.

“Economic Regulation and the Development of Integrated Energy Systems”, with Mike Cleland and Sean Conway, ICES Literary Series, v.1 September 2012.

“Technology for the Masses: The Consumer-centric Smart Grid and its Challenge for Regulators” with Philip Mause, Public Utilities Fortnightly, October 2011.

- "Duke's Fifth Fuel", Public Utilities Fortnightly, January 2008.
- "Public Service Commission of Wisconsin, 1977-1980" Charles J. Cicchetti, The NRRI Journal of Applied Regulation, Volume 4, December 2006
- "A Brief History of Rate Base: Necessary Foundation of Regulatory Misfit" with Charles J. Cicchetti, Public Utilities Fortnightly, July 2006.
- "ISOs and Transcos: What's at Stake?" with Gary D. Bachman and Colin M. Long, The Electricity Journal, December 2000.
- "Politics as Usual: A Roadmap to Backlash, Backtracking and Re-regulation," with Colin M. Long, Public Utilities Fortnightly, Vol. 138, No. 18. October 1, 2000.
- "Transmission Products and Pricing: Hidden Agendas in the ISO/Transco Debate," with Colin M. Long, Public Utilities Fortnightly, Vol. 137, No. 12. June 15, 1999
- "Mergers and the Convergence of the Electric and Natural Gas Industries," Natural Gas, March 1997.
- "Been There, Done That: Sunk Costs, Access Charges and the Transmission Pricing Debate," Energy, Vol. XXI, No. 4. September, 1996.
- "Regulating Competition: Transition or Travesty?" with Kristina M. Sepetys, The Electricity Journal, May 1996.
- "California Model Sets the Standard for Other States," with Kristina M. Sepetys, World Power Yearbook 1996.
- "Measuring the Effects of Natural Resource Damage and Environmental Stigma on Property Value," Environmental Law, September/October, 1995.
- "The Route Not Taken: The Decision to Build the Trans-Alaska Pipeline and the Aftermath," The American Enterprise, Volume 4, Number 5, September/October 1993.
- "A Micro-Econometric Analysis of Risk-Aversion and the Decision to Self-Insure," with Jeffrey Dubin, in Journal of Political Economy, Revised, July 1993. (Volume 102, No. 1, February 1994.)
- "Energy Utilities, Conservation, Efficiency," with Vinayak Bhattacharjee and William Rankin, Contemporary Policy Issues, Volume XI, Number 1, January 1993.

- "Uniqueness, Irreversibility, and the Theory of Nonuse Values," with Louis L. Wilde, American Agricultural Economics Association, December 1992.
- "Utility Energy Services," with Ellen K. Moran, Regulatory Incentives for Demand-Side Management, Chapter 9, American Council for an Energy-Efficient Economy, December 1992.
- "A Micro-Econometric Analysis of Risk Aversion and the Decision to Self-Insure," California Institute of Technology, with Jeffrey A. Dubin, January 1992.
- "The Use and Misuse of Surveys in Economic Analysis: Natural Resource Damage Assessment Under CERCLA," California Institute of Technology, with Jeffrey Dubin and Louis Wilde, July 1991.
- "The Federal Energy Regulatory Commission's Proposed Policy Statement on Gas Inventory Charges (PL-89-1-1000), Energy and Environmental Policy Center, Harvard University, Discussion Paper E-89-11, July 1989.
- "Incentive Regulation: Some Conceptual and Policy Thoughts," Energy and Environmental Policy Center, Harvard University, Discussion Paper E-89-09, June 1989.
- "Including Unbundled Demand-Side Options in Electricity Utility Bidding Programs," with William Hogan, Public Utilities Fortnightly, June 8, 1989. (Also a Discussion Paper E-88-07).
- "Assessing Natural Resource Damages Under Superfund: The Case Against the Use of Contingent Value Survey Methods," with Neil Peck, Natural Resources & Environment, Vol. 4, No. 1, Spring 1989.
- "Pareto Optimality Through Non-Collusive Bilateral Monopoly with Cost-of-Service Regulation (or: Economic Efficiency in Strange Places)," with Jeff D. Makhholm, Energy and Environmental Policy Center, Harvard University, Working Paper, 1988.
- "The FERC's Discounted Cash Flow: A Compromise in the Wrong Direction," with Jeff Makhholm, Public Utilities Fortnightly, July 9, 1987.
- "Conservation Subsidies: The Economist's Perspective," with Suellen Curkendall, Electric Potential, Vol. 2, No. 3, May/June 1986.
- "Our Nation's Gas and Electric Utilities: Time to Decide," with R. Shaughnessy, Public Utilities Fortnightly, December 3, 1981.

- "Is There a Free Lunch in the Northwest? (Utility-Sponsored Energy Conservation Programs)," with R. Shaughnessy, Public Utilities Fortnightly, December 18, 1980.
- "Opportunities for Canadian Energy Policy," with M. Reinbergs, Journal of Business Administration, Vol. 10, Fall 1978/Spring 1979.
- "Energy Regulation: When Federal and State Regulatory Commissions Meet," with J. Williams, American University Law Review, 1978.
- "The End-User Pricing of Natural Gas," with Don Wiener, Public Utilities Fortnightly, March 16, 1978.
- "An Econometric Evaluation of a Generalized Consumer Surplus Measure: The Mineral King Controversy," with V.K. Smith and A.C. Fisher, Econometrica, Vol. 44, No. 6, 1976.
- "Alternative Price Measures and the Residential Demand for Electricity: A Specification Analysis," with V.K. Smith, Regional Science and Urban Economics, 1975.
- "An Economic Analysis of Water Resource Investments and Regional Economic Growth," with V.K. Smith and J. Carston, Water Resources Research, Vol. 12, No. 1, 1975.
- "A Note on Fitting Log Linear Regressions with Some Zero Observations for the Regressand," with V.K. Smith, Metroeconomica, Vol. 26, 1975.
- "The Design of Electricity Tariffs," Public Utilities Fortnightly, August 28, 1975.
- "The Economics of Environmental Preservations: Further Discussion," with A.C. Fisher and J.V. Krutilla, American Economic Review, Vol. 64, No. 6, December 1974.
- "Electricity Price Regulation: Critical Crossroads or New Group Participation Sport," Public Utilities Fortnightly, August 29, 1974.
- "Interdependent Consumer Decisions: A Production Function Approach," with V.K. Smith, Australian Economic Papers, December 1973.
- "Economic Models and Planning Outdoor Recreation," with A.C. Fisher and V.K. Smith, Operations Research, Vol. 21, No. 5, September/October 1973.
- "Evaluating Federal Water Projects: A Critique of Proposed Standards," with R.K. Davis, S.H. Hanke and R.H. Haveman, Science, Vol. 181, August 1973.



"The Mandatory Oil Import Quota Program: A Consideration of Economic Efficiency and Equity," with W. Gillen, Natural Resources Journal, Vol. 13, No. 3, July 1973.

"Congestion, Quality Deterioration and Optimal Use: Wilderness Recreation in the Spanish Peaks Primitive Area," with V.K. Smith, Social Sciences Research, Vol. 2, 1, March 1973 (reprinted July 1973).

"The Economics of Environmental Preservation: A Theoretical and Empirical Analysis," with A.C. Fisher and J.V. Krutilla, American Economic Review, Vol. 62, No. 4, September 1972.

"Recreation Benefit Estimation and Forecasting: Implications of the Identification Problem," with V.K. Smith, J.L. Knetsch and R. Patton, Water Resources Research, Vol. 8, No. 4, August 1972.

"Evaluating Benefits of Environmental Resources with Special Application to the Hells Canyon," with J.V. Krutilla, Natural Resources Journal, Vol. 12, No. 1, January 1972. (Also published in Benefit-Cost and Policy Analysis, 1972.)

"On the Economics of Mass Demonstrations: A Case Study of the November 1969 March on Washington," with A.M. Freeman, R.H. Haveman and J.L. Knetsch, American Economic Review, Vol. 61, No. 4, September 1971.

"Option Demand and Consumer Surplus: Further Comment," with A.M. Freeman III, Quarterly Journal of Economics, Vol. 85, August 1971.

"Some Economic Issues Involved in Planning Urban Recreation Facilities," Land Economics, February 1971.

"A Note on Jointly Supplied Mixed Goods," with V.K. Smith, Quarterly Review of Economics and Business, Vol. 10, No. 3, Autumn 1970.

"A Gravity Model Analysis of the Demand for Public Communication," with J.J. Seneca, Journal of Regional Science, Vol. 9, No. 3, Winter 1969.

### **Articles Appearing in Other Volumes**

"Including Unbundled Demand-Side Options in Electric Utility Bidding Programs," in *Competition in Electricity: New Markets & New Structures*, with William Hogan and edited by James L. Plummer and Susan Troppmann, (Public Utilities Reports and QED Research Inc: Arlington, Virginia) March 1990.

- "Meeting the Nation's Future Electricity Needs: Cogeneration, Competition and Conservation," in 1989 Electricity Yearbook, New York: Executive Enterprises, 1989.
- "Environmental Litigation and Economic Efficiency: Two Case Studies," with R. Haveman in Environmental Resources and Applied Welfare Economics: Essays in Honor of John F. Krutilla, V.K. Smith ed., Washington, DC: Resources for the Future, 1988.
- "Electricity and Natural Gas Rate Issues," with M. Reinbergs, in The Annual Energy Review, Palo Alto: Annual Reviews Inc., Vol. 4, 1979.
- "The Measurement of Individual Congestion Costs: An Econometric Application to Wilderness Recreation," with V.K. Smith, in Theory and Measurement of Economic Externalities, ed. S.A. Lin, New York: Academic Press, 1976.
- "Implementing Diurnal Electricity Pricing in the U.S.: A Pragmatic Approach," in Energy System Forecasting, Planning and Pricing, ed. C.J. Cicchetti and W. Foell, Madison: University of Wisconsin Press, February 1975.
- "Measuring the Price Elasticity of Demand for Electricity: The U.S. Experience," with V.K. Smith, in Energy System Forecasting, Planning and Pricing, ed. C.J. Cicchetti and W. Foell, Madison: University of Wisconsin Press, 1975.
- "Public Utility Pricing: A Synthesis of Marginal Cost, Regulatory Constraints, Averch-Johnson Bias, Peak Load and Block Pricing," with J. Jurewitz, in Studies in Electric Utility Regulation, ed. C.J. Cicchetti and J. Jurewitz, Cambridge: Ballinger Publishing Company, 1975.
- "Congestion, Optimal Use and Benefit Estimation: A Case Study of Wilderness Recreation," with V.K. Smith, in Social Experiments and Social Program Evaluation, ed. J.G. Albert and M. Kamrass, Cambridge: Ballinger Publishing Company, 1974.
- "Electricity Growth: Economic Incentives and Environmental Quality," with W. Gillen, in Energy: Demand, Conservation and Institutional Problems, ed. M. Macrakis, Cambridge: MIT Press, 1974.
- "Some Institutional and Conceptual Thoughts on the Measurement of Indirect and Intangible Benefits and Costs," with John Bishop, in Cost-Benefit Analysis and Water Pollution Policy, ed. H. Peskin and E. Seskin, Washington, D.C.: Urban Institute, 1974.
- "The Trans-Alaska Pipeline: An Economic Analysis of Alternatives," with A.M. Freeman III, in Pollution, Resources and the Environment, ed. A.C. Enthoven and A.M. Freeman III, New York: W.W. Norton and Co., 1973.

"Alternative Uses of Natural Environments: The Economics of Environmental Modification," with A.C. Fisher and J.V. Krutilla, in Natural Environments: Studies in Theoretical and Applied Analysis, ed. J.V. Krutilla, Baltimore: Johns Hopkins University Press, 1972.

"A Multivariate Statistical Analysis of Wilderness Users in the United States," in Natural Environments: Studies in Theoretical and Applied Analysis, ed. J.V. Krutilla, Baltimore: Johns Hopkins University press, 1972.

"Benefits or Costs? An Assessment of the Water Resources Council's Proposed Principles in Standards," with R.K. Davis, S.H. Hanke, R.H. Haveman and L. Knetsch, in Benefit-Cost and Policy Analysis, ed. W. Nishkanen, *et al*, Chicago: Aldine Publishing Company, 1972.

"Observations on the Economics of Irreplaceable Assets: Theory and Method in the Social Sciences," with J.V. Krutilla, A.M. Freeman III and C. Russell, in Environmental Quality Analysis, ed. A. Kneese and B.T. Bower, Baltimore: Johns Hopkins University Press, 1972.

"Outdoor Recreation and Congestion in the United States," in Population, Resources and the Environment, ed. R. Ridker, Washington, D.C.: U.S. Government Printing Office, 1972.

### **Less Technical Articles**

"Still the Wrong Route," Environment, Vol. 19, No. 1, January/February, 1977.

"National Energy Policy Plans: A Critique," Transportation Journal, Winter 1976.

"The Mandatory Oil Import Program: A Consideration of Economic Efficiency and Equity," with W. Gillen, Joint Economic Committee of the U.S. Congress, 1974.

"The Political Economy of the Energy Crisis," with R. Haveman in Carroll Business Review, Winter 1974.

"The Wrong Route," Environment, Volume 15, No. 5, June 1973.

"Benefit-Cost Analysis and Technologically Induced Relative Price Changes: The Case of Environmental Irreversibilities," with J.V. Krutilla, Natural Resources Journal, 1972.

"A Review of the Empirical Analyses that Have Been Based Upon the National Recreation Surveys," Journal of Leisure Research, Vol. 4, Spring 1972.

"How the War in Indochina is Being Paid for by the American Public: An Economic Comparison of the Periods Before and After Escalation," Public Forum, July 1970, (reprinted in the Congressional Record, August 13, 1970).

"User Response in Outdoor Recreation: A Reply," with J.J. Seneca, Journal of Leisure Research, Vol. 2, No. 2, Spring 1970.

"User Response in Outdoor Recreation: A Production Analysis," with J.J. Seneca, Journal of Leisure Research, Vol. 1, No. 3, Summer 1969.

### **Miscellaneous Articles**

"Competitive Battlefield: A View from the Trenches," Northeast Utilities 1987 Annual Report, Competition: A Matter of Choices, 1987.

### **SPEECHES**

#### **Speeches Since 1984**

"California: Going Green and Getting Regulation Right", Law Seminars International 11<sup>th</sup> Annual Conference on Energy in California, San Francisco, California, September 15, 2009.

"The Business Case For Energy Efficiency", CS Week Conference, Washington, D.C., May 21, 2009.

"Back to The Future: Energy Planning and Lessons for the 1970's", Third Annual Nelson Institute Earth Day Conference, Madison, Wisconsin, April 22, 2009.

"Energy Efficiency and Regulatory Incentives," EUEC 11<sup>th</sup> Annual Energy and Environment Conference, Tucson, Arizona, January 27-30<sup>th</sup>, 2008.

"Conservation Reconsidered: A First Row Seat," Reconsidering "Conservation Reconsidered": A 40-Year Legacy, Resources for the Future, October 3, 2007.

"Market Issues: Power Procurement & Contracts," Law Seminars International, San Francisco, California, September 17-18<sup>th</sup>, 2007.

- “Economists as Appraisers, Threats or Compliments?” Appraisal Institute Seminar, Los Angeles, California, March 26, 2007.
- “The Economic Health of California’s Energy Markets”, An Economist’s Perspective on the Electronic Health of CA Energy Markets, San Francisco, California, September 26, 2006.
- “Lessons From California to Russia,” Edison Electric Institute’s US/Russia Electricity Markets Conference, Washington, District of Colombia, February 25, 2003.
- “State Regulation Is Here to Stay: Financing the Future, “ NARUC 113<sup>th</sup> Annual Convention, Philadelphia, Pennsylvania, November, 2001.
- “Deregulation Revisited: The Power Crisis in California,” New York University’s Energy Forum, New York, New York, 26 February 2001.
- “The Changing Face of Utilities,” Author Anderson’s 21<sup>st</sup> Annual Energy Symposium, Houston, Texas, 28 November 2000.
- “Lessons for Bangladesh: Thinking Globally While Acting Locally,” The World Bank’s Bangladesh Power Sector Reforms Workshop, Dhaka, Bangladesh, 1 October 2000.
- “Diversification and Shareholder Value,” The Energy Daily’s 27<sup>th</sup> Annual Conference: Lighting the World, Williamsburg, Virginia, 2 December 1999.
- “Challenges for Government-Owned Utilities,” The Bond Buyer Public Power Conference, Santa Monica, California, 7 October 1999.
- “Restructuring America’s Electricity Industry and Public Power or Customer Owned Utilities,” APPA’s CEO Roundtable, Scottsdale, Arizona, 3 March 1998.
- “Electricity Restructuring: The Future Role of Regulation (Woulda, Shoulda, Coulda)’ American Bar Association’s Annual Electricity Conference, Denver, Colorado, 13 February 1998.
- “Mergers in the Utility Industry,” Arthur Anderson’s 18<sup>th</sup> Annual Energy Symposium, Houston, Texas, 9 December 1997.
- “Convergence, Competition, Mergers and Marketing: Are You Getting Ready for the Millennium?” California Foundation on the Environment and the Economy, Santa Cruz, California, 4 December 1997.

- “Electric Utility Strategy: Regulation, Restructuring and Competition,” The Fourth Annual Power Industry Forum: “A View Toward the New Energy Corporation,” San Diego, California, 7 March 1997.
- “Restructuring Energy Markets: A World Perspective,” The Energy Daily’s 22<sup>nd</sup> Annual Conference: The One-Stop Energy Stop, Williamsburg, Virginia, 12 December 1996.
- “Mergers in the Utility Industry,” Arthur Anderson’s Energy Symposium, Houston, Texas, 10 December 1996.
- “Political, Economic, and Regulatory Challenges when Transforming Privately-Owned Utilities to Competitive Enterprises,” Presentation at the Economist Conferences, Bilbao, Spain, 12 November 1996.
- “Transmission, Divestiture, and the Future,” Panelist at the EEI Strategic Planning Conference, Seattle, Washington, 14 October 1996.
- “Cost-of-Service Regulation: The Old Dog Won’t Hunt, and Recently, It Wasn’t Very Good,” Presentation to the Board of Wisconsin Electric Power Company,” Belize, Central America, 3 April 1996.
- “Primary Mergers: An Insider’s Guide,” Presented at Electricity Utility Week Conference, March 15, 1996.
- “Merger Policy Issues—When is a Proposed Electric Utility Merger in the Public Interest?” Panelist at the 3<sup>rd</sup> Annual DOE-NARUC National Electricity Forum, 5 December 1995.
- “Measuring the Effects of Natural Resources Damage and Environmental Stigma on Property Value,” Presented to Morgan, Lewis & Bockius, 29 November 1995.
- “Strategy for a Natural Gas Distributor: Competition, Consolidation, Cost Cutting,” for Washington Gas Light, 23 October 1995.
- “Strategic Issues Facing the Electric Utility Industry,” AIS Symposium, St. Charles, IL, 9 October 1995.
- “Worldwide Electricity Restructuring: Regulation, Competition or Both?” presented at the 4<sup>th</sup> World Economic Development Congress, Washington, DC, 6 October 1995.
- “Competition, Consolidation, Restructuring: A Program for Expanding Utility Consulting,” Western Region Utility Presentation, 28 September 1995.

- “North/South Estimated Savings Compared to Recent Merger Claimed Savings,” for PSCo information only, July 28, 1995.
- “California PUC Plans for Restructuring the Electric Industry,” Utilities Overheads, 3 July 1995.
- “Public Utility Holding Company Act (PUHCA) Current Issues,” Utilities Overheads, 3 July 1995.
- “Power Industry Restructuring: Competition and Deregulation are Not Synonyms,” Utilities Overheads, 3 July 1995.
- “The FERC’s Role in Electric Utility Industry Restructuring,” Utilities Overheads 3 July 1995.
- “Whereto Regulation? Slice and Dice Supplants Command and Control,” HARC Presentation, 8 August 1995/
- “Strategic Issues Facing the Electric Utility Industry,” US West Presentation, 1 August 1995.
- “Proposal to Provide Consulting Services to Assist with An Alternative Ratemaking Proposal,” Boston Gas Presentation, 27 July 1995.
- “Strategic Issues Facing the Electric Utility Industry,” ConEd Presentation, 26 July 1995. (Also “Power Thinking”)
- “Generic NU Slides”
- “Strategic Issues Facing the Electric Utility Industry,” NU Board of Trustee Presentation, 25 July 1995.
- “Public Utility Holding Company Act (PUHCA)” Presentation to Southwest Gas Corporation, 19 June 1995.
- “FERC Activity-Gas Industry Update,” Presentation to Southwest Gas Corporation, 19 June 1995.
- “Electric Industry Restructuring Recent FERC and CPUC Developments,” Presentation to Southwest Gas Corporation, 19 June 1995.
- “Power Marketing and Bulk Power Markets: Power Marketing and its Impact on the Electric Power Industry,” Infocast’s Power Marketing and Bulk Power Markets, 8 June 1995.

- “Energy Industry in Transition,” Yankee Energy Systems presentation, 23 May 1995.
- “State Regulation in an Era of Regulated Competition,” American Enterprise Energy Policy Forum, 16 May 1995.
- “Natural Resource Damages Latest Developments and Future Focus,” The CVM Controversy. Executive Enterprises NRDA Conference, 5 May 1995, San Francisco.
- “Restructuring the Electric Industry,” Prepared for Georgia Power Company, 28 March 1995.
- “Electric, Gas and Telephone Industry Insights and Outlooks,” Prepared for Peoples Energy Corporation Officers’ Planning Retreat, 12 March 1995.
- “The Driving Forces Reshaping the Electric Power Industry,” Presentation to Northeast Utilities Management, 27 February 1995.
- “Electricity Markets: Yesterday, Today, and Tomorrow,” and “The Driving Forces Reshaping the Electric Power Industry,” Presentation to General Electric, 13 February 1995.
- “Power Marketing and Its Role in the Competitive Energy Industry: Projecting Future and International Power Needs,” EEI Conference, 27 January 1995.
- “Evolution or Revolution: Whoever Gets the Customers Wins!” Energy Daily Conference, 1 December 1994.
- “Natural Resource Damages Latest Developments and Trends: CVM Controversy,” Executive Enterprise’s NRDA Conference, 15 November 1994.
- “The Current Natural Gas Transportation Issues that Affect the North American Market,” IGUA/ACIG Natural Gas Conference, 15 November 1994.
- “Power Marketing and Its Role in the Competitive Energy Industry: Projecting Future and International Power Needs,” Infocast-New York, 28 October 1994.
- “FERC and State Regulatory Incentives: Restructuring the Electric Utility Industry,” Arthur Andersen’s Financial Symposium, 27 September 1994.
- “Restructuring the Electric Utility Industry,” Arthur Andersen’s Financial Symposium, 27 September 1994.
- “What Do We Want to Get Out of the CPUC Restructuring Process,” Aspen Institute Presentation Materials, 6 July 1994.



“The Debate over Retail Competition in California: A Prescriptive Suggestion,” Aspen Institute Presentation Materials, 6 July 1994.

“A Review and Critique of Internal Revenue Service Economist Report Regarding Electricity Conservation Program Expenditures and Related Tax Deductions,” EEI Taxation Committee Meeting, 14 June 1994.

“The Expanding Competition in Power Markets,” Environmental Law, Liability & Litigation Director’s Roundtable, 18 May 1994.

“Paul Keglevic’s Group Presentation to The Gas Company: Customer Values Initiative.”

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- “Infrastructure, Regulatory, Risk/Reward Issues.” Presented at the Portland General Symposium, Portland, Oregon, November 6, 1989.
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- “Electric Utilities: New Markets, New Challenges,” Speech before the Interstate Natural Gas Association of America Seminar, The Greenbrier, White Sulphur Springs, West Virginia, October 17, 1989.
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## **CIVIL PROCEEDINGS AND RELATED LEGISLATIVE TESTIMONY**

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