

# RODNEY STEVENSON

## CURRICULUM VITA

### EDUCATION

- 1968 BA Economics , Monmouth College, Illinois
- 1973 Ph.D. Economics, Michigan State University  
*Major fields and concentrations*  
Regulatory Economics and Industrial Organization  
Economic Theory  
Economic Development  
Econometrics and Statistics

### ACADEMIC APPOINTMENTS

#### Professor, University of Wisconsin-Madison

##### School of Business

- from 90 Professor  
1981-90 Associate Professor  
1976-81 Assistant Professor

##### Institute for Environmental Studies

- from 90 Professor  
1992-97 Chair, Energy Analysis and Policy Program  
1981-90 Associate Professor  
1980-81 Assistant Professor

##### Wisconsin Public Utility Institute

- from 98 Senior Faculty Advisor  
1994-98 Co-Director  
1987-94 Executive Director  
1982-87 Director  
1982 Founder

##### Other Academic Appointments

- 1988-89 Visiting Scholar  
Institute of Social and Economic Research  
Osaka University, Osaka, Japan.
- 1975-76 Adjunct Assistant Professor  
Department of Economics  
Michigan State University
- 1972-76 Instructor, University College  
University of Maryland
- 1968 Teaching Assistant  
Department of Economics  
Michigan State University

**Other Positions**

- 1981 - 84     President  
                  Arbeit, Inc.
  
- 1980 - 86     President  
                  Public Service Associates, Inc.
  
- 1973-75       Economist  
                  Office of Economics  
                  United States Federal Power Commission
  
- 1971           Economist  
                  Office of the Chief Economist  
                  Univet States Postal Rate Commission

## RESEARCH AND PUBLICATIONS

### Books, Monographs, and Technical Reports

- 1999 *Low-Income Energy Service Policy Assessment*  
Technical Report to the Energy Center of Wisconsin
- 1998 *Telecommunications Cost Allocation and Pricing:*  
Technical Report to the Pennsylvania Public Service Commission
- 1997 *Low Income Policy Response Simulation Model and Technical Documentation*  
with J. Huddleston and D. Ray, Technical Report to the Energy Center of Wisconsin
- 1996 *Energy Services in Low-Income Households*  
with J. Huddleston and D. Ray, Technical Report to the Energy Center of Wisconsin
- 1996 *Biomass Energy Infrastructure Development,*  
Co-Editor with A. Olson, Wisconsin Public Utility Institute
- 1995 *Subsidies and Unfair Competitive Advantages: A Review*  
with G Mendl, et al., Technical Report to the American Public Power Association
- 1995 *Land Economics Special Issue on Public Utility Regulation*  
Co-Editor with H. Trebing and E. Miller, University of Wisconsin Press
- 1994 *Policy Options for Competition in Wisconsin's Electric Power Industry*  
with L. Cullen, G. Mathis, and D. Ray, Wisconsin Public Utility Institute Report
- 1994 *International Perspectives on Telecommunications Policies*  
Senior Editor, JAI Press
- 1993 *The Value of Transmission Security*  
with F. Alvarado, D. Ray, and L. Kirsch, Electric Power Research Institute
- 1992 *Electric Utility Mergers and Regulatory Policy*  
with D. Ray, R. Shiffman, and H. Thompson, National Regulatory Research Institute
- 1982 *Utility Flexible Pricing Study: Wisconsin*  
with M. Caramanis and R. Tabors,  
Technical Report to the Public Service Commission of Wisconsin
- 1981 *Waste Heat Recovery Potentials for Wisconsin Paper and Food Processing Industries*  
with W. Foell, D. Ray, et al., Technical Report to the U.S. Department of Energy
- 1981 *Productivity Measurement in Regulated Industries*  
Co-Editor with T. Cowing, Academic Press
- 1980 *The Possibility Lifeline of Rates for Gas and Electric Utility Service in New Mexico*  
with L. Adcock, et al., Technical Report to the New Mexico Public Service Commission and the New Mexico Legislature

- 1980 *Industrial Energy Use in Wisconsin: Consumption Patterns and Conservation Measures*  
with W.Foell, et.al, University of Wisconsin, Madison
- 1979 *Direct Load Management*  
with R. Timm. Technical Report to the Wisconsin State Energy Office  
and Wisconsin Environmental Decade
- 1978 *Methods to Improve Gas Utility Transmission and Distribution Efficiency*  
with R. Brandi, et al., Technical Report to the U.S. Department of Energy
- 1974 *Productivity and Public Utility Regulation*  
National Association of Regulatory Utility Commissioners
- 1973 *Postal Pricing Problems and Production Functions*  
Ph.D. Thesis, Michigan State University

## Articles

- 2002 "An Ethical Basis for Institutional Economics," *Journal of Economic Issues*, vol. 36, no. 2, June.  
"Energy Price, Environmental Policy, And Technological Bias," *Journal of Energy Economics*,  
forthcoming.
- 2001 "Exploring the Ethics and Economics of Global Labor Standards: A Challenge to Integrated Social  
Contract Theory" with L. Hartman and B. Shaw, *Business Ethics Quarterly*, forthcoming
- 2000 "Human Resources Opportunities to Balance Ethics and Economics in Global Labor Standards"  
with L. Hartman and B. Shaw, *Business & Professional Ethics Journal*, vol 19, nos. 3 & 4
- 1998 "Oil Prices, Bias of Technology and Mandatory Abatement Costs: Dynamic  
Response in U.S. Industrial Energy Demand"  
with A. Taheri, *Australian Econometric Society Proceedings*
- 1997 "International Energy Markets, Competition and Policy"  
with A. Taheri, *International Association of Energy Economists Proceedings*
- 1995 "Discretionary Evolution - Restructuring The Electric Utility Industry"  
with D. Penn, *Land Economics*, August
- 1995 "Transformation of the Electric Utility Industry"  
with D. Ray, *Networks, Infrastructure, and the New Tasks for Regulation*,  
W. Sitchel and D. Alexander, Co-Editors, University of Michigan Press
- 1995 "Wisconsin's Public Policy Options for Competition"  
with D. Ray and L. Cullen, *Reinventing Electric Utility Regulation*,  
G. Enholm and J. R. Malko, Co-Editors, Public Utility Reports, Inc.
- 1994 "The Productivity Effects of Japanese Telecommunication Policy"  
with T. Oum, H. Oniki, and Y.Zang, *Journal of Productivity Analysis*, Vol. 5, 63-79

- 1994 "Social Goals and the Partial Deregulation of the Electric Utility Industry"  
*Journal of Economic Issues*, vol. 28, no. 2, June
- 1993 "Industrial Structure and Power"  
*Institutional and Evolutionary Economics*, W. Samuels, G. Hodgesson,  
and M. Tool, Co-Editors, Edward Elgar Publishing
- 1993 "Market Forces and Planning by Regulation: Conflicts and Complementarities"  
with D.Ray, *Utilities Policy*, October
- 1993 "The Productivity of Nippon Telegraph and Telephone Company"  
with H. Oniki and T. Oum, *Japanese Telecommunications and Economics*,  
Nikkei Publishing Co., in Japanese
- 1993 "Competition and Privatization: Japanese Telecommunications Policy"  
with H. Oniki and H. Sato, *International Review of Comparative Public Policy*, vol. 5
- 1993 "Telecommunications Needs and Social Impacts: State Government User Needs" *Convergence,  
Competition, Cooperation: The Report of the Governor's Blue Ribbon Telecommunications  
Infrastructure Task Force*, Vol. 2 Chapter 5
- 1993 "Telecommunications Technology: Wisconsin's Existing Infrastructure"  
*Convergence, Competition, Cooperation: The Report of the Governor's Blue Ribbon  
Telecommunications Infrastructure Task Force*, Vol. 2 Chapter 9
- 1992 "Comparative Research on the Value of Transmission Security"  
with F.Alvarado and R.Adapa, *American Power Conference Proceedings*
- 1991 "Departures From Minimum Cost Performance: A Framework For Analysis Of Firm Inefficiency,"  
with D. Reifschneider, *International Economic Review*, August
- 1992 "Electric Utility Least-Cost Planning"  
with M. Hanson, S.Kidwell, and D. Ray,  
*Journal of the American Planning Association*, Winter
- 1992 "Engineering Foundations for the Determination of Security Costs"  
with F. Alvarado, et al., *IEEE Transactions on Power Systems*, August
- 1992 "Review of *After the Break-Up: Assessing the New Post-AT&T Divestiture Era*"  
*Columbia Journal of World Business*, Fall
- 1992 "Incorporation of Environmental Externalities into Integrated Resource Planning"  
with J. Fagan, *Integrated Resource Planning Proceedings*,  
National Association of Regulatory Utility Commissioners, Washington, D.C.
- 1990 "Competition in the American Electric Utility Industry"  
with D. Penn, *Deregulation and the Public Utilities*, T. Hayashi, Editor
- 1989 "Equity, Social Values, and Public Utility Regulation",  
*Alternatives to Traditional Regulation: Options for Reform*,  
H.Trebing, Editor, Michigan State University Press

- 1989 "Review of *Public Policy Toward Corporations*"  
*Journal of Economic Issues*, Vol. 23, No. 1, March
- 1989 "Competition in the American Electric Utility Industry"  
*Energy and Resources -Journal of the Japan Society of Energy and Resources*,  
May, in Japanese
- 1989 "Japanese Telecommunication Policy: After Privatization and Liberalization"  
with H. Sato, *Columbia Journal of World Business*, Spring
- 1988 "Transmission Access and Competition in the Electric Utility Industry"  
with D. Penn, *The Electricity Journal*, October
- 1987 "*Direct Electric Utility Competition: The Natural Monopoly Myth, A Review*",  
*Land Economics*, Vol. 63, No. 3, August
- 1987 "Institutional Economics and the Theory of Production"  
*Journal of Economic Issues*, Vol. 21, No. 4, December
- 1985 "Incentive Effects of Utility Rate Trending"  
*Resources and Energy*, Vol. 7, No. 1
- 1985 "Corporate Power and the Scope of Economic Analysis"  
*Journal of Economic Issues*, Vol. 19, No. 2, June
- 1983 "A Comparison of Alternative Frontier Cost Function Specifications"  
with T. Cowing and D. Reifschneider, *Developments in Econometric Analyses of Production Efficiency*, A. Dogramaci, Editor, Kluwer Nijhoff Publishing, Boston
- 1985 "Institutional Objectives, Structural Barriers, and Deregulation in the Electric Utility Industry",  
*Journal of Economic Issues*, Vol. 17, No. 2, June
- 1982 "Allocative Efficiency and Automatic Adjustment Clauses: A Theoretical Analysis", with Thomas  
Cowing, *Journal of Economics and Business*, Vol. 34, No. 4
- 1982 "X-Inefficiency and Interfirm Rivalry: Evidence from the Electric Utility Industry"  
*Land Economics*, Vol. 58, No. 1, February
- 1981 "Productivity Measurement and Regulated Industries: An Introduction "  
with T. Cowing, *Productivity Measurement in Regulated Industries*,  
T. Cowing and R. Stevenson, Co-Editors, Academic Press
- 1981 "Comparative Measures of Productivity in the Regulated Sector: Examples from the Electric Utility  
Industry," with T. Cowing and J. Small, *Productivity Measurement in Regulated Industries*,  
T.Cowing and R. Stevenson, editors, Academic Press
- 1981 "Establishing Objectives for Residential Load Research"  
*U.S. Department of Energy Electric Rate Demonstration Conference Proceedings*

- 1981 "Problems in Electric Utility System Planning"  
with R.Timm, Challenges for Public Utility Regulation in the 1980s, H. M. Trebing, editor,  
Michigan State University Press
- 1981 "Public Utility Economics and The Control of Natural Monopolies: A Review"  
Land Economics, Vol. 57, No. 1, February
- 1980 "Measuring the Potential Impacts from Lifeline Pricing of Electricity and Natural Gas Services,"  
with Dennis Ray, Issues and Problems in Public Utility Regulation,  
M. Crew, editor, Lexington Books
- 1980 "Measuring Technological Bias"  
American Economic Review, Vol. 70, No. 1, March
- 1980 "Likelihood Functions for Generalized Stochastic Frontier Estimation"  
Journal of Econometrics, May
- 1980 "Productivity Measurement and Public Utility Regulation"  
with Thomas Cowing, Public Utilities Fortnightly, July 31
- 1979 "Social Responsibility and Public Utility Regulations"  
Department of Energy and White House Office of Consumer Affairs Conference Proceedings
- 1979 "Energy Regulation and Federalist Solution"  
Issues in Public Utility Regulation, H. Trebing, Editor, Michigan State University Press
- 1978 "Productivity Measurement in Regulated Industries: Some Conceptual Issues"  
with T. Cowing, American Institute of Decision Science Proceedings - North East
- 1978 "Assessing New Price Structures and Policies: Comments"  
Assessing New Pricing Concepts in Public Utilities, H. Trebing, Editor, Michigan State University  
Press
- 1978 "New Energy Sources: Economic Feasibility, Costing, and Pricing: Comments" Assessing New  
Pricing Concepts in Public Utilities, H. Trebing, Editor, Michigan State University Press
- 1978 "Evaluating New Pricing Practices in Electricity: Comments"  
Issues in Public Utility Regulation, H. Trebing, Editor, Michigan State University Press
- 1976 "The Pricing of Postal Services"  
New Dimensions in Public Pricing, H. Trebing, Editor, Michigan State University Press
- 1975 "Productivity in the Private Electric Utility Industry:1951-1973"  
Public Utility Productivity: Management and Measurement, W. Belk and J. Shrafitz, Co- Editors,  
New York State Department of Public Service, Albany, New York
- 1975 "Regulatory for Efficiency in the Public Utility Industry"  
Public Utility Productivity: Management and Measurement, W. Belk and J. Shrafitz, Co- Editors,  
New York State Department of Public Service, Albany, New York

- 1974 "The Historical Development of Industrial Organization"  
with A. Phillips, *History of Political Economy*, Vol. 6, No. 3, Fall
- 1972 "The Role of Quantitative Economics in the Regulatory Process"  
*Regulatory Information Systems Proceedings*

## COURSES AND PRESENTATIONS

### **Courses**

Business Ethics and Social Responsibility  
Public Utilities  
Public Utility Problems - Integrated Resource Planning  
Energy Economics  
Business and the Environment  
Risk and the Environment  
Economics of Regulation  
Government and Business  
Public Policies Towards Industry  
Managerial Economics  
Energy Conversion Technologies Seminar  
Energy and the Environment Seminar  
Transportation and Public Utility Graduate Seminar  
Energy Policy Graduate Seminar

### **Professional Presentations *since 1988***

2002     *Awarding Ethical Business Behavior*  
Association of Security Analysts Professionals

2002     *An Ethical Basis for Institutional Economics*  
Presidential Address, Association for Evolutionary Economics

2001     *Sweatshops: Sacrificing Labor for Economic Development*  
Association for Evolutionary Economics

2000     *Taxicabs Are Not Public Utilities*  
Transit and Parking Commission, City of Madison, Wisconsin

2000     *Madison's Taxicabs Should Be Deregulated*  
WIBA Radio

1999     *Modeling and Measuring Low Income Energy Policies*  
Energy Center of Wisconsin

1998     *Vermont Economics*  
Keynote Address for the Nebraska Economics Association Annual Meetings

1998     *Antitrust and the Deregulation of the Electric Utility Industry*  
Annual Conference of the National Association of Regulatory Commissioners

1998     *Three Stories and a Moral*  
Keynote Address, Wisconsin Energy Bureau Low Income Energy Pilots  
Conference

1998     *Mergers and Competition in the Public Utility Industry*  
American Economic Association meetings, Transportation and Public Utility  
Group

1997     *Two Approaches to Environmental Regulation - the PSC and the DNR*  
Conference on Environmental Consequences of Electric Utility Deregulation

1997     *The Impact on the Poor of Energy Deregulation*  
Keynote Address, Annual Conference on Energy Policies and the Poor

- 1997 *New Challenges for Industry – Energy Deregulation*  
Wisconsin Industrial Energy Group
- 1997 *Unions and Electric Utility Regulation*  
Conference of the Wisconsin Brotherhood of Electrical Workers Union
- 1997 *Buddhist Approaches to Pain Management*  
Wisconsin Medical Ethics Network Meetings
- 1997 *Energy Efficiency and Conservation, Teaching by Doing*  
Wisconsin Division of Energy Conference for Educators and School Administrators
- 1997 *Universal Service Policies for the Telecommunications Industry*  
Conference on Telecommunications Reforms, Wisconsin Public Utility Institute
- 1996 *The Restructuring Debate: Social Concerns, Mergers, and Lessons From Telecommunications and Natural Gas*  
Annual Meeting of WPPI, System, Inc.
- 1996 *Transition Models to a More Competitive Electric Utility Industry*  
NARUC Advanced Regulatory Studies Program
- 1996 *Meeting Social Objectives in a More Competitive Electric Utility Industry*  
NARUC Advanced Regulatory Studies Program
- 1996 *Meeting Low-Income Energy Needs in a Changing Environment*  
Wisconsin Low-Income Energy Services Conference
- 1996 *Electric Utility Deregulation: Prairie Fire or Brush Fire*  
Annual Conference of the Municipal Electric Utilities of Wisconsin Association
- 1996 *Competition and Corporate Cultures*  
Tri-State Conference of Rural Electric Cooperatives Senior Management  
Indiana, Michigan, Ohio
- 1996 *Universal Service: A State Paradigm*  
Biannual Regulatory Information Conference  
National Regulatory Research Institute, Ohio State University
- 1995 *Conditions for Welfare-Enhancing Competition in Wholesale and Retail Electric Power*  
American Economic Association Transportation and Public Utility Group  
Annual Meetings
- 1995 *Historical Perspectives on the Restructuring of the Electric and Natural Gas Industries*  
United States Department of Energy National Energy Outlook Conference
- 1995 *Options for Competition in the Electric Utility Industry*  
Annual Conference of the Michigan State University Institute of Public Utilities
- 1995 *Electric Utility Competition: Lessons from the Natural Gas and Telecommunication Industries*  
American Public Power Association Joint Action Agency Conference
- 1995 *Who Should Be Responsible for Generation Adequacy and Transmission Reliability in an Open Marketplace?*  
Power Systems Engineering Research Consortium Conference on Technological Foundations for Customer Choice in the Electric Power Industry
- 1995 *Perspectives on Combination and Straight Utilities*  
Mid-America Regulatory Conference
- 1995 *Electric Utility Restructuring and Environmental Concerns*  
Wisconsin Department of Natural Resources
- 1995 *Electric Utility Restructuring and the Future for Nuclear Power*

University of Wisconsin Nuclear Engineer Students Association

- 1995 *Energy and Economics*  
Special Lecture For Energy Resources Class
- 1995 *Industrial Organization - an Introduction and Overview Public Service*  
*Commission of Wisconsin Natural Gas Study Group*  
Options For The Restructuring Of Electricity Transmission NARUC Annual  
Regulatory Studies Program
- 1995 *The Restructuring Debate: Direct Access and Public Policy Objectives*  
Center for Regulatory Studies, The Electricity Policy Pre-Summit Series
- 1995 *Will Regulation Light Promote the Public Interest: A Critique of Regulatory*  
*Options*  
Annual Meeting of the National Association of Regulatory Utility  
Commissioners
- 1994 *Social Goals and the Partial Deregulation of the Electric Utility Industry*  
Association for Evolutionary Economics Annual Meetings
- 1994 *Options for Competition in the Electric Utility Industry*  
Annual conference of the Michigan State University Institute of Public Utilities
- 1994 *Electric Utility Competition: Lessons from the Natural Gas and*  
*Telecommunication Industries*  
American Public Power Association Joint Action Agency Conference
- 1994 *Transmission Policy and Essential Facilities: Lessons Learned from the Natural*  
*Gas and Telecommunications Industries*  
Conference of the Transmission Access Policy Group
- 1994 *Information Session of Telecommunications Legislation*  
Special Session of the Wisconsin Legislature invited presentation
- 1994 *Testimony on Telecommunications Legislation*  
Joint Finance Committee, Wisconsin Legislature invited presentation
- 1994 *Telecommunications Reform and the Wisconsin Telecommunications Bill*  
Democratic Assembly Caucus, Wisconsin Legislature invited presentation
- 1994 *Reforming Telecommunications Regulation*  
Wisconsin Public Utility Institute Campus Seminar
- 1994 *Telecommunications Industry Structure and Regulatory Reform*  
Wisconsin Public Utility Institute Essentials of Telecommunications Regulation  
Program
- 1993 *Planning By Regulation*  
Joint Session of the American Economic Association Transportation and  
Public Utility Group and the Association for Evolutionary Economics Annual  
Meetings
- 1993 *Transformation of the Electric Utility Industry*  
10th Annual Michigan Conference on Regulation
- 1993 *Regulation and Incentive Rate Systems*  
Great Lakes Conference of Regulatory Utility Commissioners
- 1993 *Regulatory Reform For Telecommunications in Wisconsin*  
Society of Telecommunication Professionals
- 1993 *Federal Restructuring Policies and State IRP and DSM Policies: Harmony or*  
*Conflict*  
Annual Conference of the Michigan State University Institute of Public Utilities
- 1993 *Telecommunications Market Trends and Regulation*

- Wisconsin Public Utility Institute Essentials of Telecommunications Regulation Program
- 1993 *Energy Utilities Industry Structure Revenue Requirements and Rate Design*  
Wisconsin Public Utility Institute Essentials of Energy Utilities and Regulation -- and Contemporary Issues in Energy Utilities Programs
- 1993 *Alternatives to Rate Base Regulation*  
Wisconsin Public Utility Institute Essentials of Energy Utilities and Regulation -- and Contemporary Issues in Energy Utilities Programs
- 1993 *Incentive Systems and Rate Regulation*  
Wisconsin Public Utility Institute Essentials of Energy Utilities and Regulation -- and Contemporary Issues in Energy Utilities Programs
- 1993 *Forces for Change in the Electric Industry*  
Wisconsin Public Utility Institute Essentials of Energy Utilities and Regulation -- and Contemporary Issues in Energy Utilities Programs
- 1992 *Mergers in the Electric Utility Industry*  
Joint Session of the American Economic Association Transportation and Public Utility Group and the Association for Evolutionary Economics Annual Meetings
- 1992 *Regulation and Sharing Rules*  
Graduate Economics Lecture Series, Northeastern Illinois University
- 1992 *Efficiency and Productivity Consequences of Private Network vs. Public Switched Telecommunication Network Development*  
Columbia University
- 1992 *Values and Public Utility Regulation*  
Keynote Address, Society of Depreciation Professionals
- 1992 *Current Trends in the United States Natural Gas Industry*  
Osaka Gas Company, Osaka, Japan
- 1992 *Energy Programs at the University of Wisconsin*  
RENEW Wisconsin Conference
- 1992 *Telecommunications Market Trends and Regulation*  
Wisconsin Public Utility Institute Essentials of Telecommunications Regulation Program
- 1992 *Energy Utilities Industry Structure*  
Wisconsin Public Utility Institute Essentials of Energy Utilities and Regulation -- and Contemporary Issues in Energy Utilities Programs
- 1992 *Integrated Resource Planning and Regulation*  
Wisconsin Public Utility Institute Essentials of Energy Utilities and Regulation -- and Contemporary Issues in Energy Utilities Programs
- 1992 *Alternatives to Rate Base Regulation Incentive Systems and Rate Regulation*  
Wisconsin Public Utility Institute Essentials of Energy Utilities and Regulation -- and Contemporary Issues in Energy Utilities Programs
- 1991 *Regulation and Sharing Rules*  
Tienjin University, China
- 1991 *Environmental Externalities and Integrated Resource Planning*  
Conference on Integrated Resource Planning National Association of Regulatory Utility Commissioners
- 1991 *Incorporating Environmental Externalities into Benefit/Cost Evaluations of Projects*  
Ministry of Construction, China
- 1991 *Valuing Electric Power Security*  
Wisconsin Public Utility Institute Campus Seminar  
*Forces for Change in the Electric Industry*

- Wisconsin Public Utility Institute and American Public Power Association  
Senior Executive Program
- 1990 *Price Caps and Telecommunication Regulation*  
BellCore/Bell Canada Research Conference on Telecommunication Demand
- 1990 *Measuring Productivity in the Japanese Telecommunications Industry*  
BellCore/Bell Canada Research Conference on Telecommunication Demand
- 1990 *Economics, Externalities, and the Environment*  
Environmental Task Force, Edison Electric Institute
- 1990 *Changing Trends in Electric Utility Competition*  
Chubu Electric Company Division of Corporate Planning, Nagoya, Japan
- 1990 *Public Power and Electric Utility Competition*  
Wisconsin Conference on Municipally - Owned Electric Utilities
- 1990 *Municipal Electric Utilities as Customers and Competitors*  
Wisconsin Power and Light Corporation.
- 1990 *Productivity and Performance in the Japanese Telecommunication Industry*  
Conference of the International Telecommunications Society, Venice, Italy
- 1990 *Regulation, Sharing Rules, and the Quality of Competition*  
American Economic Association Annual Meetings
- 1989 *Competition in the American Electric Utility Industry*  
Japan Society of Energy and Resources, Tokyo, Japan
- 1989 *Trends in Competition and Regulation in America*  
Osaka Gas Company Regulatory Economists Study Group, Osaka, Japan
- 1989 *Frontier Analysis of Sources of Inefficiency*  
Kobe University Department of Economics  
Tohokyu University Department of Economics  
Tsukuba University Department of Economics  
Osaka University Department of Economics  
Nanzan University School of Business  
University of British Columbia
- 1989 *The Total and Partial Factor Productivity of NTT*  
Research Institute of Telecommunication Policy and Economics, Tokyo, Japan
- 1989 *Measuring NTT Productivity*  
Nippon Telegraph & Telephone, International Division, Japan
- 1989 *Recent Developments in Electricity Pricing in the United States*  
Central Research Institute of the Electric Power Industry of Japan, Tokyo,  
Japan
- 1989 *Cost Function Analysis of Electric Utilities*  
Central Research Institute of the Electric Power Industry of Japan, Tokyo,  
Japan
- 1989 *Developments in the Japanese Telecommunications Markets*  
Korea Institute of Communications Science Conference on Telecommunication  
Policy, Seoul, Korea
- 1989 *Regulation in the United States*  
Department of Economics, Tongji University, Shanghai, China
- 1989 *The Total and Partial Factor Productivity of the Nippon Telegraph and  
Telephone Co.*  
Telecommunication Policy Research Conference, Airlie House, Virginia
- 1989 *Considering Transmission Reliability in Pricing Electricity Services*

- 1989 Annual Meeting of the Illinois Economic Association  
*Decomposing TFP Growth into Scale, Technological Innovation, Capacity Utilization, and Extent of Competition: An Application to Nippon Telegraph and Telephone Co.*  
 Conference on Current Issues in Productivity Rutgers University
- 1989 *NTT's Productivity and the Effect of Competition*  
 Transportation and Public Utility Group of the American Economic Association
- 1988 *Electric Utility Competition*  
 Joint Conference of the Public Service Commission of Wisconsin, the Wisconsin Utility Association and the Wisconsin Public Utility Institute on the Role Of Competition in the Electric Utility Industry.
- 1988 *Economics, Values and Risks*  
 Conference on Risk and the Environment. Institute of Environmental Studies and LaFollette Institute University of Wisconsin, Madison
- 1988 *Fundamentals of Energy Policy and Planning*  
 Energy Policy and Planning Seminar Egyptian Ministry of Energy and Office for Energy Planning, Cairo, Egypt
- 1988 *Objectives for Energy Policy Development*  
 Energy Policy and Planning Seminar Egyptian Ministry of Energy and Office for Energy Planning, Cairo, Egypt
- 1988 *Policy Fundamentals: Alternative Policy Instruments*  
 Energy Policy and Planning Seminar Egyptian Ministry of Energy and Office for Energy Planning, Cairo, Egypt
- 1988 *Risk and Consequence Analysis*  
 Energy Policy and Planning Seminar Egyptian Ministry of Energy and Office for Energy Planning, Cairo, Egypt
- 1988 *Energy Policy Options: Residential Sector*  
 Energy Policy and Planning Seminar Egyptian Ministry of Energy and Office for Energy Planning, Cairo, Egypt
- 1988 *Energy Policy Implementation and Results Assessment*  
 Energy Policy and Planning Seminar Egyptian Ministry of Energy and Office for Energy Planning, Cairo, Egypt
- 1988 *Measuring Productive Efficiency*  
 Osaka University Institute of Social and Economic Research
- 1988 *Electric Utility Least Cost Planning*  
 American Economic Association Annual Meetings Transportation and Public Utility Group

## RESEARCH FUNDING AND OTHER GRANTS

- 1998 Business Ethics and Corporate Responsibility  
Sabbatical Grant, University of Wisconsin, Madison
- 1998 Low Income Energy Policy Analysis, PI  
Energy Center of Wisconsin
- 1988 Low Income Energy Modeling, Co-PI  
Energy Center of Wisconsin
- 1996 Low Income Simulation Modeling, Co-PI  
Energy Center of Wisconsin
- 1995 Services for Low-Income Energy Needs, Co-PI  
Energy Center of Wisconsin
- 1994 Biomass Energy Infrastructure, Program Funding  
Energy Foundation, Wisconsin Electric Utilities, Wisconsin Energy Bureau,  
Oak Ridge National Laboratory, Great Lakes Regional Biomass Energy Program, USDA  
Forest Service, Electric Power Research Institute, UW-Madison Biotechnology Center

1991 - 1995

### PA and RA Support for Energy Research

*[note: these are support positions that I initiated, negotiated, and oversaw while the Chair of the IES Energy Analysis and Policy Program. All positions were funded by research grants to the University of Wisconsin, Madison by the respective organization I was PI on each research proposal submitted from the University to the organization.]*

SOURCE	NUMBERS
Wisconsin Center for Demand Side Research	1994-5 2 PAs and 2 RAs
	1993-4 2 PAs and 1 RA
	1992-3 3 PAs
	1991-2 3 PAs and 1 RA
Wisconsin Demand Side Demonstrations	1994-5 2 PAs
	1993-4 2 PAs
	1992-3 2 PAs
HBRS	1992-3 1 PA
	1991-2 1 PA
Wisconsin Energy Conservation Consulting Group	1992-3 1 PA
	1991-2 1 PA
MSB and Associates	1993-4 3 PAs
	1992-3 3 PAs
Xenergy	1994-5 2 PAs
	1993-4 1 PA
	1992-3 2 PAs
Wisconsin Energy Bureau	1994-5 2 PAs
	1993-4 1 PA
Resource Management Associates	1994-5 2 PAs
	1993-4 2 PAs
	1992-3 2 PAs
	1991-2 2 PAs

- 1992 Funding for Human Values and the Environment Program Funding  
Wisconsin Council of the Humanities
- 1991 Cost Benefit Analysis and Investment Planning  
Research Institute of Standards and Norms, Ministry of Construction, China
- 1989 Regulatory Policies and Structural Change: Electric Utility Mergers, Co-PI  
La Follette Institute, University of Wisconsin, Madison
- 1988 Japanese Telecommunication Policy  
University of Wisconsin Ameritech Grants Program
- 1988 Japanese Telecommunication Productivity  
School of Business, University of Wisconsin, Madison
- 1988 Japanese Energy Policy  
Sabbatical Grant, University of Wisconsin, Madison
- 1981 Frontier Estimation and Total Factor Productivity Measurement  
Graduate School Research Committee, University of Wisconsin, Madison
- 1980 Issues in Frontier Estimation  
Graduate School Research Committee, University of Wisconsin, Madison
- 1979 Measuring Comparative Efficiencies Through Stochastic Frontier Estimation  
Graduate School Research Committee, University of Wisconsin, Madison
- 1978 Comparative Efficiency of Publicly and Privately Owned Utilities  
Institute of Public Utilities, Michigan State University
- 1978 The Measurement of Firm Productivity in Publicly Regulated Industries:  
A Comparative Assessment  
National Science Foundation
- 1978 Comparative Efficiencies of Publicly and Privately Owned Utilities  
Graduate School Research Committee, University of Wisconsin, Madison
- 1977 The Measurement of Total Factor Productivity in the Electric Utility Industry  
Graduate School Research Committee, University of Wisconsin, Madison
- 1977 Evaluating Competition in the Regulated Electric Utility Industry  
National Science Foundation
- 1976 Assessing the Desirability of Competition in the Regulated Electric Utility Industry  
Graduate School Research Committee, University of Wisconsin, Madison

## **PUBLIC AND PROFESSIONAL SERVICE**

### **Expert Consultant**

American Public Power Association  
Anaheim, Riverside, Banning, Colton, and Azusa, California Municipal Utilities  
Bureau of Economic Development, Ministry of Energy, Republic of the Philippines  
Canadian Airlines  
Center for Public Representation, Wisconsin  
Committee for Public Utility Education, Nevada  
Connecticut Municipal Electric Cooperative  
Illinois Commerce Commission  
Kansas Corporation Commission  
Ketron, Inc.  
Ministry of Energy, Republic of Egypt  
Missouri Governor's Commission on Telecommunications Reform  
New Mexico Public Service Commission  
New York Consumer Protection Board  
Office of Technology Assessment, United States Congress  
Ontario Hydro, Canada  
Pennsylvania Public Utility Commission  
Public Service Commission of Wisconsin  
Research Institute of Standards and Norms, Peoples' Republic of China  
Resource Consulting Group  
Resource Management Associates  
Tecknekron, Inc.  
United States Department of Energy  
Unitel CNCP, Inc., Canada  
University of the Philippines  
Utah Committee on Consumer Services  
Wisconsin Department of Justice  
Wisconsin Environmental Decade  
Wisconsin Governor's Telecommunications Infrastructure Task Force  
Wisconsin Office of State Planning and Energy  
Wisconsin Public Service Company

## GOVERNMENT COMMITTEES AND TASK FORCES

- Various Years Employment Examination Board,  
Public Service Commission of Wisconsin
- 1992-93 Wisconsin Legislative Council Select Committee on Energy Policy
- 1985 U.S. Congress Office of Technology Assessment Electric Utility  
Technology and Policy Panel
- 1984 Wisconsin Legislature Special Committee on Telecommunications
- 1984 National Task Force on Low Income Energy Conservation and Utilization National  
Association for State Community Services Programs
- 1980-81 Wisconsin Legislature Select Committee on Utility Rates
- 1979 U.S. Department of Energy Project Proposal Review Team
- 1978-83 Madison Development Corporation, Board of Directors  
Chairperson of Board of Directors 1980-83
- 1978 New York Consumer Protection Board Research Advisory Board
- 1977 U.S. Congress Office of Technology Assessment National Energy Plan  
Impacts Assessment Panel
- 1977 Employment Examination Board, WI Office of State Planning and Energy
- 1976 Governor's Task Force on Fuel and Utility Payment Problems, Wisconsin

## Academic Associations

Allied Social Science Association

*Executive Officer - 2001*

*Executive Officer - 1989*

American Economic Association

*Transportation and Public Utility Group*

*Chairperson - 1989*

*Vice Chairperson - 1988*

*Executive Committee - 1988-92*

Association for Evolutionary Economics

*President – 2001*

*President Elect – Program Organizer - 2000*

*Board of Directors - 1994-1996, 2000 - 2002*

*Nominations Committee - 1992*

The Econometric Society

International Association of Energy Economists

## **University Committees**

### **University of Wisconsin Madison**

Faculty Senate  
Campus Diversity Climate Committee, Chair

### **School of Business**

Diversity Committee  
Wisconsin Public Utility Institute, Director  
Ph.D. Committee  
Masters Committee  
Library Committee, Chair  
Research Committee  
Computer Committee  
Computer Staff Search Committee  
John R. Commons Lecture Committee  
Political, Legal, and Ethical Environments Search Committee  
Ethics Chair Search Committee  
Management Institute Public Utility Search Committee

### **Institute for Environmental Studies**

Energy Analysis and Policy Program Faculty (Chair, 1992-1997)  
Air Resource Management Program Faculty  
Land Resources Program Faculty  
Water Resources Management Program Faculty  
Energy Analysis and Policy Admissions Committee  
Energy Analysis and Policy Awards Committee  
IES Council  
IES Graduate Programs Committee  
IES Curriculum Committee  
IES Awards Committee  
IES Budgets and Administration Committee  
IES Center for Human Systems  
IES Risk Group  
Chair, Ecology, Philosophy and Theology Conference Steering Committee

### **Other University of Wisconsin, Madison**

Center for Human Performance and Risk Analysis  
Board of Advisors, College of Engineering  
  
Institute for Legal Studies  
Disputes Processing Research Program Executive Committee  
  
East Asia Area Studies Program  
Oversight Committee  
  
International Engineering Program  
Philippine Graduate Energy Engineering Project  
Egyptian Energy Project

## Reviewer

Academic Press	Journal of Industrial Economics
American Economic Review	Journal of Public, Urban and Regional Policy
Asian Institute of Technology	Journal of Productivity Analysis
Columbia Journal of World Business	Journal of the American Statistical Association
Econometrica	Land Economics
International Economic Review	National Science Foundation
Journal of Business and Economic Statistics	Review of Economics and Statistics
Journal of Econometrics	Review of Industrial Organization
Journal of Economic Issues	Southern Economic Journal
	University of Wisconsin Press

## Boards of Directors

From – 98	Internal Advisory Board Center for Human Performance in Complex Systems College of Engineering, University of Wisconsin, Madison
From – 98	Board of Advisors The Center for a Competitive Waste Industry
1990 - 98	Corporate Secretary and Board of Directors Energy Center of Wisconsin
1993 - 97	Corporate Vice-President and Board of Trustees International Committee for a Peace Council
1990 - 97	Board of Directors National Regulatory Research Institute National Association of Regulatory Utility Commissioners
1983 - 84	Board of Directors Madison Capital Corporation
1980 - 84	Board of Directors - Chairman 1981-1984 Madison Development Corporation

## Other Service

2001 -	Rotary International Ethics Symposium Steering Committee
2001 -	Wisconsin Association of Security Analysts Business Ethics Awards Steering Committee

## HONORS AND AWARDS

- 2000 Distinguished Member Award  
Transportation and Public Utility Group of the American Economic Association  
*“honoring a Transportation and Public Utility Group member who has made significant contributions to the field ... [and has] enjoyed a full and distinguished career.”*
- 1999 Distinguished Service Award  
Energy Center of Wisconsin
- 1999 Final Two Corporate Board of Directors Search  
New York Integrated Service, Corp. (control state wide electric utility transmission)
- 1998 Distinguished Service Award  
National Regulatory Research Institute  
National Association of Regulatory Commissioners
- 1987 Robert A. Jerred Distinguished Service Award  
Graduate School of Business, University of Wisconsin-Madison
- 1975 Outstanding Performance Award  
United States Federal Power Commission
- 1964 - 1968  
Honorary Societies Monmouth College  
Omicron Delta Epsilon      Economics Honorary Society  
Phi Gamma Mu                Social Science Honorary Society  
Phi Kappa Delta             Forensic Honorary Society  
Sigma Tau Delta             English Honorary Society  
Blue Key                      Academic Honorary Society

## Contact Information

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