

**VITA**  
**DENNIS J. AIGNER**

**Present Position:** Professor Emeritus of Economics, Paul Merage School of Business,  
University of California, Irvine

UCLA 1955-58, Engineering-Mathematics, no degree

UC Berkeley 1958-63: (1) Agricultural Economics, B.S. (1959); (2)  
Statistics, M.A. (1962); (3) Agricultural Economics, Ph.D. (1963).

**Relevant Work Experience:**

1960-62, Mathematical Statistician, USDA, Forest Service, Berkeley

1962-66, Assistant Professor of Economics, University of Illinois

1964-66, Director, Computer Lab, College of Business Administration,  
University of Illinois

1966-67, Associate Professor of Economics, University of Illinois

1967-70, Associate Professor of Economics, University of Wisconsin-  
Madison

1967-73, Director, Programming and Computation Service, Data and  
Computation Center for the Social Sciences, University of  
Wisconsin-Madison

1970-76, Professor of Economics, University of Wisconsin-Madison,

1970, Summer, Visiting Professor of Economics, University of Hawaii

1970-71, Visiting Professor, Center for Operations Research and  
Econometrics (CORE), Université Catholique de Louvain  
(Belgium)

1971-76, Chairman, Social Systems Research Institute, University of Wisconsin-  
Madison

1976, Spring, Resident Consultant, The Rand Corporation, Santa Monica, California

1976-88, Professor of Economics, University of Southern California (USC)

1976-79, Co-Director, Modelling Research Group, USC

1978-79, Acting Chairman, Department of Economics, USC

- 1979-87, Chairman, Department of Economics, USC
- 1982, Fall, Visiting Professor, Department of Economics, University of Wisconsin-Madison
- 1985, Spring, Visiting Professor, Departments of Econometrics, University of Amsterdam and University of Geneva
- 1986, Fall, Visiting Professor, Department of Econometrics, University of Sydney
- 1988-97, Dean, Graduate School of Management, University of California, Irvine
- 1988-2007, Professor of Economics & Management, Graduate School of Management, University of California, Irvine
- 1997, Fall, Faculty Associate, Harvard Institute for International Development, Harvard University.
- 1998-2004, Associate Dean for Business Management, Donald Bren School of Environmental Science and Management, University of California, Santa Barbara.
- 2000-01 Acting Dean, Donald Bren School of Environmental Science and Management, University of California, Santa Barbara.
- 2001-05, Dean, Donald Bren School of Environmental Science and Management, University of California, Santa Barbara.
- 2005-07, Adjunct Professor, Donald Bren School of Environmental Science and Management, University of California, Santa Barbara
- 2011-14, Distinguished Visiting Professor, EGADE Business School, Monterrey Institute of Technology, Mexico City.

**Teaching Areas:**

Econometrics, Statistics, International Economics, Corporate Environmental Management

**Honors:**

Fulbright Scholar, Belgium, 1970-71  
 Fellow, Econometric Society (elected 1972)  
 H.I. Romnes Faculty Fellow, University of Wisconsin, 1976  
 American Statistical Association Visiting Lecturer in Statistics, 1980-1983  
 Fulbright Scholar, Israel, May 1983  
 Cited in: Who's Who in Economics (MIT Press) 1982, 1984; (Edward Elgar) 1999. Who's Who in America (Marquis Who's Who, Inc.).  
 Albert S. Raubenheimer Award for Excellence in Scholarship, Teaching and Service, USC, 1985.  
 Award for Teaching Excellence, Division of Social Sciences and Communications, USC, 1986.  
*Studies in Econometrics in Honor of Dennis J. Aigner*, a special issue of the *Journal of Econometrics*, 1993.

Daniel G. Aldrich, Jr. Award for University Service, UCI, 1996.  
Bren Fellow in Business Management, UC Santa Barbara, 1998-2005  
Distinguished Research Award, Argyros School of Business & Economics,  
Chapman University, 1999  
International Professor in Environmental Management and Strategy, Graduate  
School of Business Administration and Leadership, Monterrey Institute of  
Technology (Mexico), 2001-08  
Distinguished Research Fellow, UCLA Institute for the Environment, 2004-05  
Alumnus of the Year, College of Natural Resources, Department of Agricultural &  
Resource Economics, UC Berkeley, 2010  
Lifetime Achievement Award, Marquis Who's Who, 2017

## **Publications:**

### **BOOKS, MONOGRAPHS, REPORTS:**

*Principles of Statistical Decision-Making*, Macmillan, 1968.

*Basic Econometrics*, Prentice-Hall, 1971. Prentice-Hall series in International Management and series in Mathematical Economics.

*Latent Variables in Socioeconomic Models*, edited (with A.S. Goldberger), North-Holland Publishing Co., 1977.

*Modelling and Forecasting Time-of-Day and Seasonal Electricity Demands*, edited (with A. Lawrence), *Journal of Econometrics (Annals 1979-1)*, North-Holland Publishing Co., January 1979.

*Experimental Design in Econometrics*, edited (with C. Morris), *Journal of Econometrics (Annals 1979-2)*, North-Holland Publishing Co., September 1979.

*Modelling and Analysis of Electricity Demand by Time-of-Day*, edited, Report EPRI EA-1304, Electric Power Research Institute, Palo Alto, CA, December 1979.

*Electricity Demand and Consumption by Time-of-Use: A Survey* (with D. Poirier), Report EPRI EA-1294, Electric Power Research Institute, Palo Alto, CA, December 1979.

*Specification and Estimation of Frontier Production, Profit and Cost Functions*, edited (with P. Schmidt), *Journal of Econometrics (Annals 1980-2)*, North-Holland Publishing Co., May 1980.

*Welfare Econometrics of Peak-Load Pricing for Electricity*, edited, *Journal of Econometrics (Annals 1984-3)*, North-Holland Publishing Co., September 1984.

*Topics in Applied Regression and Time Series Analysis*, edited, *Journal of Econometrics (Annals 1987)*, North-Holland Publishing Co., May 1987.

*Causality*, edited (with A. Zellner), *Journal of Econometrics (Annals 1988)*, North-Holland Publishing Co., September/October 1988.

*Latent Variables Models*, edited (with M. Deistler), *Journal of Econometrics (Annals 1989)*, North-Holland Publishing Co., May 1989.

*Contributions to Econometric Methodology in Honor of T. W. Anderson*, edited, *Journal of Econometrics (Annals 1990)*, North-Holland Publishing Co., April/May 1990.

*Sustainability and Competitiveness* (with A. Lloret), Report to UC-MEXUS, University of California, September 2011.

#### ARTICLES:

"An Estimation Procedure for Range Composition Problems," *Journal of the American Statistical Association*, Vol. 60 (March 1965) pp. 308-19.

"Errors of Measurement and Least Squares Estimation in a Simple Recursive Model of Dynamic Equilibrium," *Econometrica*, Vol. 34 (April 1966), pp. 424-32.

"An Interpretive Input Routine for Linear Programming," *Communications of the Association for Computer Machinery*, Vol. 10 (January 1967), pp. 23-26.

"On the Determinants of Income Equality" (with A.J. Heins), *American Economic Review*, Vol. LVII (March 1967), pp. 12-25.

"On the Measurement of Income Equality" (with A.J. Heins), *Review of Income and Wealth*, Series 13 (March 1967), pp. 12-25.

"A Simple Model of Information and Lending" (with C.M. Sprenkle), *Journal of Finance*, Vol. XXIII (March 1968), pp. 151-66.

"On Estimating the Industry Production Function" (with S. Chu), *American Economic Review*, Vol. LVIII (September 1968), pp. 826-39.

"A Linear Approximator for the Class Marks of a Grouped Frequency Distribution with Especial Reference to the Unequal Interval Case," *Technometrics*, Vol. 10 (November 1968), pp. 793-809.

"The Determinants of Member Bank Borrowing: A Critique" (with W.R. Bryan), *Journal of Finance*, Vol. XXIII (December 1968), pp. 832-7.

"Problems in Making Inferences from the Coleman Report: Comment," *American Sociological Review*, Vol. 35 (April 1970), pp. 249-52.

"Estimation of Pareto's Law from Grouped Observations" (with A.S. Goldberger), *Journal of the American Statistical Association*, Vol. 65 (June 1970), pp. 341-51.

"Cross-Section and Time Series Tests of the Permanent Income Hypothesis" (with J. Simon), *American Economic Review*, Vol. LX (June 1970), pp. 712-23.

"The Estimation of Moments for a Pareto Distribution Subject to Both Sampling and Grouping Errors," *Review of the International Statistical Institute*, Vol. 38, No. 2 (1970), pp. 210-20.

"A Specification Bias Interpretation of Cross-Section vs. Time Series Parameter Estimates" (with J. Simon), *Western Economic Journal*, Vol. 8 (June 1970), pp. 144-61.

"On the Log-Quadratic Law of Production" (with S.F. Chu and M. Frankel), *Southern Economic Journal*, Vol. XXXVI (July 1970), pp. 32-9.

"On the Specification Bias for k-Class Estimators" (with S.F. Chu), *Econometric Annual of the Indian Economic Journal*, Vol. 17 (1970), pp. 671-89.

"A Model of Short-Run Bank Behavior" (with W.R. Bryan), *Quarterly Journal of Economics*, Vol. 85 (February 1971), pp. 97-118.

"Safety Margins and Profit Maximization in the Theory of the Firm" (with R.H. Day and K.R. Smith), *Journal of Political Economy*, Vol. 79 (November/December 1971), pp. 1293-1301.

"A Compendium on Estimation of the Autoregressive-Moving Average Model from Time Series Data," *International Economic Review*, Vol. 12 (October 1971), pp. 348-371.

"Bounding Constraints in Certain Linear Programming Problems and the Principle of Safety First," *European Economic Review*, Vol. 3 (April 1972), pp. 71-81.

"A Note on Verification of Computer Simulation Models," *Management Science: Theory*, Vol. 18 (July 1972), pp. 615-19.

"An Errors-in-Variables Model in Which Least Squares is Consistent," *International Economic Review*, Vol. 14 (February 1973), pp. 256-7.

"Simulation and Aggregation: A Reconsideration" (with S.M. Goldfeld), *Review of Economics and Statistics*, Vol. LV (February 1973), pp. 49-60.

"Regression with A Binary Independent Variable Subject to Errors of Observation," *Journal of Econometrics*, Vol. 1 (March 1973), pp. 49-60.

"On the Estimation of an Econometric Model of Short-Run Bank Behavior," *Journal of Econometrics*, Vol. 1 (September 1973), pp. 201-208.

"On Optimal Financing of Cyclical Cash Needs" (with C.M. Sprenkle), *Journal of Finance*, Vol. 28 (December 1973), pp. 1249-53.

"Estimation and Prediction from Aggregate Data when Aggregates are Measured More Accurately Than Their Components" (with S.M. Goldfeld), *Econometrica*, Vol. 42 (January 1974), pp. 113-134.

"Parameter Estimation from Cross-Section Observations on an Elementary Queueing System," *Operations Research*, Vol. 22 (March-April 1974), pp. 422-28.

"An Appropriate Econometric Framework for Estimating a Labor Supply Function from the SEO File," *International Economic Review*, Vol. 15 (February 1974), pp. 59-68.

"Asymptotic Minimum-MSE Prediction in the Cobb-Douglas Model with a Multiplicative Disturbance Term," *Econometrica*, Vol. 42 (July 1974), pp. 737-48.

"MSE Dominance of Least Squares with Errors of Observation," *Journal of Econometrics*, Vol. 2 (December 1974), pp. 365-72.

"Identification and Normalization: A Note" (with T. Sawa), *Journal of Econometrics*, Vol. 2 (December 1974), pp. 389-92.

"On the Explanatory Power of Dummy Variable Regression" (with A.S. Goldberger and G. Kalton), *International Economic Review*, Vol. 16 (June 1975), pp. 503-10.

"On the Estimation of Production Frontiers" (with T. Amemiya and D.J. Poirier), *International Economic Review*, Vol. 16 (June 1975), pp. 377-96.

"Identification and Estimation of Dynamic Shock-Error Models" (with A. Maravall), in *Latent Variables in Socioeconomic Models*, D.J. Aigner and A.S. Goldberger (eds.), North-Holland Publishing Co., 1977, pp. 349-63.

"Statistical Theories of Discrimination in Labor Markets" (with G. Cain), *Industrial and Labor Relations Review*, Vol. 30 (January 1977), pp. 175-87. (Reprinted in O. Ashenfelter and K. Hallock (eds.), *The International Library of Critical Writings in Economics: Labor Economics*, Edward Elgar Publishing Ltd., 1995.)

"Application of Pre-Test and Stein Estimators to Economic Data" (with G. Judge), *Econometrica*, Vol. 45 (July 1977), pp. 1279-88.

"Formulation and Estimation of Stochastic Frontier Production Functions" (with C.A.K. Lovell and P. Schmidt), *Journal of Econometrics*, Vol. 6 (July 1977), pp. 21-38.

"Bayesian Analysis of Optimal Sample Size and a Best Decision Rule for Experiments in Direct Load Control," *Journal of Econometrics (Annals 1979-1)*, Vol. 9 (January 1979), pp. 209-21.

"A Brief Introduction to the Methodology of Optimal Experimental Design," *Journal of Econometrics (Annals 1979-2)*, Vol. 11 (September 1979), pp. 7-26.

"Sample Design for Electricity Pricing Experiments: Anticipated Precision for a Time-of-Day Pricing Experiment," *Journal of Econometrics (Annals 1979-2)*, Vol. 11 (September 1979), pp. 195-205.

"Correcting for Truncation Bias in the Analysis of Experiments in Time-of-Day Pricing of Electricity" (with Jerry A. Hausman), *The Bell Journal of Economics*, Vol. 11 (Spring 1980), pp. 131-42. (Reprinted in E. Stromsdorfer and G. Farkas (eds.), *Evaluation Studies Review Annual*, Vol. 5, Sage Publications, Inc., 1980).

"Industrial and Commercial Demand for Electricity by Time-of-Day: A California Case Study" (with C. Chung), *The Energy Journal*, Vol. 2 (July 1981), pp. 91-110.

"Testing the Joint Billing Effect Hypothesis" (with D. Keane), *The Energy Journal*, Vol. 3 (July 1982), pp. 113-28.

"Southern California Edison's Domestic Time-of-Use Experiment" (with L. Lillard), *Award Papers in Public Utility Economics and Regulation*, Institute of Public Utilities, Michigan State University, 1982, pp. 181-233.

"An Analysis of Commercial and Industrial Response to Time-of-Use Rates" (with J. Hirschberg), *The Energy Journal*, Vol. 4 (1983), pp. 103-26.

"Econometric Modelling with Latent Variables" (with A. Kapteyn, C. Hsiao, and T. Wansbeek), *Handbook of Econometrics*, Vol. 2, edited by Zvi Griliches and Michael Intriligator, North-Holland Publishing Co., 1984, pp. 1321-93.

"Time-of-Day Electricity Consumption Response to Temperature and the Ownership of Air Conditioning Appliances" (with L. Lillard), *Journal of Business and Economic Statistics*, Vol. 2 (January 1984), pp. 40-53.

"Measuring Peak-Load Response from Experimental Data" (with L. Lillard), *Journal of Business and Economic Statistics*, Vol. 2 (January 1984), pp. 21-39.

"Conditional Demand Analysis for Estimating Residential End-Use Load Profiles: A Preliminary Analysis" (with C. Sorooshian and P. Kerwin), *The Energy Journal*, Vol. 5 (July 1984), pp. 81-98.

"Estimation of Time-of-Use Pricing Response in the Absence of Experimental Data: An Application of the Methodology of Data Transferability" (with E. Leamer), *Journal of Econometrics (Annals 1984-3)*, Vol. 26 (September/October 1984), pp. 205-28.

"The Welfare Econometrics of Peak-Load Pricing for Electricity," *Journal of Econometrics (Annals 1984-3)*, Vol. 26 (September/October 1984), pp. 1-16.

"The Residential Time-of-Use Pricing Experiments: What Have We Learned?" Chapter 1 in *Social Experimentation*, edited by Jerry A. Hausman and David Wise, University of Chicago Press, 1985, pp. 11-48.

"Commercial/Industrial Customer Response to Time-of-Use Electricity Prices: Some Experimental Results" (with J.G. Hirschberg), *The Rand Journal of Economics*, Vol. 16 (Autumn 1985), pp. 341-55.

"On Student Evaluation of Teaching Ability" (with F. Thum), *Journal of Economic Education*, Vol. 17 (Fall 1986), pp. 243-66.

"Optimal Experimental Design for Error Components Models" (with P. Balestra), *Econometrica*, Vol. 56 (July 1988), pp. 955-71.

"Me and My Shadow: Estimating the Size of the U.S. Underground Economy from Time Series Data" (with F. Schneider and D. Ghosh), Chapter 14 in W. Barnett, et al. (eds.), *Dynamic Econometric Modelling*, Cambridge University Press, 1988, pp. 297-334. Reprinted in: *The Economics of the Hidden Economy*, edited by Friedrich Schneider, Edward Elgar, 2008.

"On Econometric Methodology and the Search for Causal Laws", *The Economic Record*, Vol. 64 (December 1988), pp. 323-26.

"Self-Selection in the Residential Electricity Time-of-Use Pricing Experiments" (with K. Ghali), *Journal of Applied Econometrics*, Vol. 4 (December 1989), pp. S131-S144.

"Latent Variables", in J. Eatwell, et al. (eds.), *The New Palgrave: Econometrics*, Macmillan, 1990, pp. 118-122.

"Sample Design Considerations for Telephone Time-of-Use Pricing Experiments with an Application to OCT-Australia" (with D. Fiebig), in A. deFontenay, et al. (eds.), *Telecommunications Demand Modelling*, North-Holland Publishing Co., 1990, pp. 279-298.

"Experimental Design for Direct Metering of Residential Electricity End-Uses" (with P. Schonfeld), Chapter 14 in J. Gabszewicz, et al. (eds.), *Economic Decision-Making: Games, Econometrics and Optimization*, Elsevier North-Holland, 1990, pp. 303-325.

"A Random Coefficient Approach to the Estimation of Residential End-Use Load Profiles" (with D. Fiebig and R. Bartels), *Journal of Econometrics*, Vol. 50 (December 1991), pp. 297-327.

"Data Pooling and Self-Selection: A Mixed Effects Hierarchical Approach" (with K. Ghali), Chapter 5 in W.E. Griffiths, et al. (eds.), *Readings in Econometric Theory and Practice*, North-Holland Publishing Co., 1992, pp. 103-42.

"The Response of Small and Medium-Size Business Customers to Time-of-Use (TOU) Rates in Israel" (with J. Newman and A. Tishler), *Journal of Applied Econometrics*, Vol. 9 (1994), pp. 283-304.

"The Response to Residential Time-of-Use Electricity Rates in Israel" (with M. Amit and A. Tishler), Chapter 35 in D. Berry, et al. (eds.), *Bayesian Analysis in Statistics and Econometrics: Essays in Honor of Arnold Zellner*, John Wiley & Sons, 1996, pp. 409-22.

"Statistical Sampling and Analysis in Litigation", Chapter 14 in D. Slottje (ed.), *The Role of the Academic Economist in Litigation Support*, Elsevier Science Publishers, 1999, pp. 229-40.

"Beyond Compliance: Sustainable Business Practices and the Bottom Line" (with J. Hopkins and R. Johansson), *American Journal of Agricultural Economics*, Vol. 85 (2003), pp. 1126-39.

"Does Corporate Social Responsibility Have to Be Unprofitable?", in B. Hay, R. Stavins and R. Vietor (eds.), *Environmental Protection and the Social Responsibility of Firms*, RFF Press, 2005, pp. 132-36.

"Sustainability and Competitiveness in Mexico" (with A. Lloret). *Management Research Review*, Vol. 36 (2013), pp. 1252-71.

"Corporate Social Responsibility and Financial Performance", Ch. 1 in R. Manos and I. Drori (Eds.), *Corporate Responsibility: Social Action, Institutions and Governance*. London: Palgrave Macmillan, 2016, pp. 11-37.

## OTHER PUBLICATIONS



“The Seeds of Salvation: Doing Well By Doing Good”, *Milken Institute Review*, Vol. 11 (2009), pp. 44-50.

“Index to Estimate the Efficiency of an Ophthalmic Practice” (with A. Chen, E. A. Kim, A. Affifi, and J. Caprioli), *JAMA Ophthalmology*, Vol. 133 (2015), pp. 924-29.

### **Grant History:**

NSF "The Computation and Data Library Capabilities for Research in the Social Sciences" (with Richard Day), April 1, 1968 to March 31, 1970. \$232,900.

NSF "An Econometric Investigation of Short-Run Bank Behavior," February 1, 1970 to July 31, 1972. \$62,500.

NSF "Computation and Data Library Capabilities for Social Science Research," January 1, 1971 to December 31, 1972. \$110,000.

NSF "Structural Modelling with Unobserved Variables" (with Arthur S. Goldberger), September 1, 1973 to August 31, 1976. \$146,000.

NSF "The Role of Linear Hierarchical Models in Applied Econometrics" (with Yoel Haitovsky), July 1, 1979 to April 30, 1981. \$115,951.

NSF "Development of a Generic Econometric Model for Assessing the Welfare Implications of Time-of-Day Pricing for Households," March 1, 1984 to February 28, 1986. \$75,187. Extension to August 31, 1986: \$19,454.

EPA "Workshop on Capital Markets and Environmental Performance", September 1, 1998 to August 31, 1999. \$18,020. Extension to August 31, 2000. Renewal to 6/30/01. \$19,876.

Packard Foundation, “Biennial Survey of California Firms’ Environmental Compliance & Performance,” January 1, 2000 to March 15, 2001. \$50,000.

EPA “Workshops on Capital Markets and Environmental Performance”, September 15, 2001 to September 14, 2006. \$443,571.

UC-MEXUS “Research on Sustainability and Competitiveness in Mexico”, October 1, 2009 to March 31, 2011, \$24,900.

UC-MEXUS “Corporate Engagement of Environmental and Social NGOs in Mexico”, July 1, 2015 to December 31, 2016, \$24,230

### **Conferences & Presentations (recent):**

- "Measuring Performance in Higher Education," UC Management Institute, July 1996.
- "The Elusive Notion of Leadership," Graduate School of Business Administration and Leadership, Monterrey Institute of Technology (Mexico), March 1997.
- "Business and the Environment: Toward a New Relationship," Graduate School of Business Administration and Leadership, Monterrey Institute of Technology (Mexico), May 1999.
- "Business and the Environment: Toward a New Relationship," Central American Institute of Business Administration (Costa Rica), May 1999.
- "Business and the Environment: Toward a New Relationship," Korea Advanced Institute of Science & Technology, May 2000.
- "Research Roundtable: Finance," BELL Conference, Nashville, TN, July 2000. (Session designer and facilitator.)
- "The Business Case for Sustainability", Graduate School of Business Administration and Leadership, Monterrey Institute of Technology (Mexico), May 2002.
- "The Business Case for Sustainability and Some Implications for Public Policy", State Legislative Leaders Foundation Conference, Santa Barbara CA, March 2003
- "Beyond Compliance: Sustainable Business Practices and the Bottom Line", Waugh Memorial Lecture, American Agricultural Economics Association, Montreal, Canada, July 2003.
- "Aspects of Corporate Sustainable Development and Their Linkage to Financial Performance", International Seminar on Corporate Social and Environmental Responsibility, Mexico City, November 2003.
- "Corporate Social Responsibility and the Bottom Line", Institute of Economic Policy Research, University of Southern California, March 2005.
- "Corporate Social Responsibility and the Bottom Line", Graduate School of Business Administration and Leadership, Monterrey Institute of Technology (Mexico), May 2005.
- "The Empirical Relationship Between Corporate Environmental and Financial Performance: A Synthesis" Luigi Solari Memorial Lecture, Department of Econometrics, University of Geneva, November 2006.
- "The Empirical Relationship Between Corporate Environmental and Financial Performance: A Synthesis", Center for Operations Research & Econometrics, Catholic University of Louvain, Belgium, December 2006.

“Business and the Environment”, Saddleback College Emeritus Institute, February 2008.

“Corporate Social Responsibility and the Bottom Line”, Instituto Tecnológico Autónomo de México (ITAM) School of Business, February 2008.

“Corporate Social Responsibility and the Bottom Line”, Department of Agricultural & Resource Economics, UC Berkeley, April 2010.

“Sustainability and Competitiveness in Mexico”, Greening of Industry Conference, EGADE Business School, Campus Estado de México, Monterrey Institute of Technology, April 2012.

“Sustainability and Competitiveness in Mexico”, EGADE Business School, Monterrey Institute of Technology, February 2013.

“Sustainability and Competitiveness in Mexico”, Institute of the Environment & Sustainability, UCLA, March 2013.

“Sustainability and Competitiveness in Mexico”, Instituto Nacional de Ecología y Cambio Climático (Mexico), June 2013.

**Professional Service (recent):**

Academic Program Review Team, College of Business, Arizona State University, 1996.

Panel to Study the Research Program of the Economic Research Service, Committee on National Statistics, National Research Council, 1997-1998.

American Assembly of Collegiate Schools of Business, Accreditation Site Visit Team (Chair), Simon School of Business, University of Rochester, 1998.

Study Co-Director, Orange County Executive Survey, University of California Irvine, 1994-98; Director, 1999-2004.

Study Director, Orange County Executive Survey, Chapman University, 2005-06

National Advisory Committee to the U. S. Representative to the North American Commission for Environmental Cooperation, 2003-09.

External Review Team, UCLA Institute of Environment & Sustainability, 2013.

**Other Service (recent):**

Design Team, California Virtual University Initiative, 1997-98.

Director, Green Coast Foundation, 2005-2008.

**Community Service (recent):**

Jr. Achievement of Southern California, Board of Governors, 1993-1998.

Association for Corporate Growth, Advisory Board, 1992-1997.

Board of Trustees, World Affairs Council of Orange County, 1995-2001.

Board of Trustees, South Coast Repertory, 1996-1999.

Board of Directors, Community Environmental Council of Santa Barbara, 2004-05.