

DONALD L. BUMPASS

Professor of Economics
College of Business Administration

Sam Houston State University
Huntsville, TX 77341-2118

Office Telephone: (936) 294-1268
Office Fax: (936) 294-3488
http://www.shsu.edu/~eco_dlb/

dbumpass@shsu.edu

EDUCATION

B.A. [Oklahoma State University](#), 1966 (Major: Economics; Minor: History and Political Science)

M.S. [Oklahoma State University](#), 1973 (Major: Economics).

Ph.D. [Oklahoma State University](#), 1976 (Major: Economics).

ACADEMIC EXPERIENCE

Professor of Economics, [Sam Houston State University](#), 1998 to present.

Adjunct Professor, School of Banking at Louisiana State University, 2011.

Director of Graduate Studies [Graduate Studies, Sam Houston State University](#), 1995 to 2003

Associate Professor of Economics, [Sam Houston State University](#), 1992 –1998.

Adjunct Professor of Economics, [International Institute for Higher Education in Morocco](#), 1996-1998

Director, [Center for Economic Education, Oklahoma State University](#), 1987-1991.

Executive Vice President, [Oklahoma Council on Economic Education](#), Oklahoma State University, Stillwater, Oklahoma, 1987-1991.

Visiting Associate Professor of Economics, [University of California, Berkeley](#), 1987.

Associate Professor of Economics, [Texas Tech University](#), 1981-1987

Associate Professor of Economics, [DePaul University](#), 1979-1981, 1986.

Visiting Associate Professor of Economics, [Texas Tech University](#), 1980.

Assistant\Associate Professor of Economics, [University of Northern Iowa](#), 1974-1979.

Instructor of Economics, [Oklahoma State University](#), 1972-1974.

Graduate Research Assistant, [Oklahoma State University](#), Project of the Joint Council on Economic Education, 1972.

Part-time Instructor, [Oklahoma State University](#), 1970-1972.
Instructor, [Fort Hays Kansas State College](#), 1967-1970.

PUBLICATIONS

"Factors Influencing Governors' Salaries, 1961-2001," (with Mark Tuttle), The B.E. Journal of Economic Analysis & Policy: Vol. 10: Issue. 1 (Topics), Article 34, April 13, 2010. Available at: <http://www.bepress.com/bejeap/vol10/iss1/art34>

“The Journal of Business Strategies: The First Twenty-Five Years”, (with Sanjay Mehta) Journal of Business Strategies, accepted for publication Vol. 25, Number 2, 2009.

“Factors Influencing Governors’ Salaries: An Update and Extension” (with M. Tuttle), The Journal of Economics Vol. 34, No. 1, 2008.

“State Government Employment versus Population: Does Size Matter?” (with D. Berg and M. Tuttle), Academy of Economics and Finance Papers and Proceedings, 30, February 2006.

"Arthur Burns and the Early Years of the Council of Economic Advisors". Midwestern Business and Economics Review, Spring 2006.

"Racial Differences in Interest Rates" (with D. Berg), Midwestern Business and Economic Review, (No. 34) Fall 2004, 9-22.

"Strictly Roots Natural Hair Care Salon -- 2001" (with P. Reed, A. Williams, V. Muehsam), In: Strategic Management: Concepts and Cases, 9th edition, edited by Fred R. David, Prentice Hall, (2003, pp. 236-241). Published in Southwest Case Research Association Proceedings, Volume 11 by College of Business Administration. The University of Texas--Tyler, March 2002.

"CeeBees Furniture Outlet", (with Earl, Ronald, Joseph Kavanaugh, Paul Reed, and Olga Thomas) In: Effective Small Business Management, 6th ed., edited by Norman Scarborough. Upper Saddle River: Prentice-Hall, 2000, pp. 117-124.

“Railtex, Inc., 1998,” (with [P. Reed](#) and [R. Earl](#)) Strategic Management: Concepts and Cases, 7th edition by Fred R. David, Prentice-Hall, 1998, pp. 162-173.

"Railtex, Inc., 1997," (with P. Reed and R. Earl), Proceedings: [Allied Academies International Conference](#), (October 1997), pp. 28-38.

“A Twentieth Century Tale of Inflation and Deception,” (with [D. Townsend](#)), Durell Journal of Money and Banking, (Fall 1995) Vol. VII, No. 3, pp. 29-30.

"Estimating the Production Function and Testing Returns to Scale: Comment," (with G. Greenwade), Journal of Economics (Fall 1994) XX, p.93.

"Foreign Direct Investment Trends in Texas." In Current Regional Issues. Dryden Press, 1994.

"Local Government Units in Texas." In Current Regional Issues. Dryden Press, 1994.

"Energy and the Houston Economy." In Current Regional Issues. Dryden Press, 1994.

"Energy Impacts on Real Wages and Output: U.S. Manufacturing 1948-1983," (with G. Greenwade), Journal of Economics, Vol. XI, 1985, 1-3; reprinted in Journal of Economics, Spring 1993, Vol. XIX, No. 1.

"Linking Education and Economic Development," (with L. Warner), Focus, published by Southwest Educational Development Laboratory, December 1989.

"George Bush, Congress and the Minimum Wage," The Margin, Vol. 5, No. 1, September/October 1989, 22-23. Reprinted in Microeconomics 91-92, Dushkin Publishing 1991, 139-140 and Microeconomics, 2nd, Dushkin Publishing, 1993, 138-139.

"Labor Market Considerations for the Entrepreneur," (with G. Greenwade), Business Perspectives, Vol. 2, No. 3, Spring 1989, 6-10.

"Foreign Investment in Oklahoma," (with J. Jadow), Southwest Executive, Vol. 3, No. 3, February 1989, 1-2.

"The Trade-Offs Between Market Power Increases and Efficiencies in Horizontal Mergers," [Atlantic Economic Journal](#), Vol. XV, No. 4, December 1987, 70-75.

"Recent Trends in Foreign Director Investment in Oklahoma," (with [J. Jadow](#)), Oklahoma Business Bulletin, Vol. 55, September 1987, 13-16.

"Trends in Foreign Direct Investment in Illinois," Illinois Business Review, Vol. 44, No. 1, February 1987, 6-7.

"The 1984 Justice Department Guidelines Toward Horizontal Mergers," Review of Industrial Organization, Vol. III, No. 1, Fall 1986, 65-77.

"Foreign Direct Investment in the United States," Journal of Business and Economic Perspectives, Vol. XII, No. 1, Spring 1986, 51-59.

"Justice Department Guidelines toward Horizontal Mergers," Southwest Journal of Economic Abstracts, Vol. 6, No. 1, 1985, 11-12.

"An Intertemporal Analysis of Monopoly Power: U.S. Manufacturing 1967-81," (with D. Olson), Review of Industrial Organization, Vol. 1, No. 4, Winter 1984, 308-322.

"An Analysis of the Welfare Loss of Monopoly Power," (with D. Olson), Atlantic Economic Journal, Vol. XII, No. 4, December 1983, 63.

"The Cyclical Behavior of Real Wages and Productivity," (with G. Greenwade), Southwestern Journal of Economic Abstracts, Vol. 5, No. 1, 1984, 13-14.

"Foreign Direct Investment in Arkansas: What are the Issues?" Arkansas Business and Economic Review, Vol. 17, No. 3, 1984, 12-17.

"Foreign Direct Investment Trends in Southwest," Texas Business Review, Vol. 56, No. 4, July-August 1982, 205-208.

"Telephone Toll Demand Elasticities in Iowa, 1966-1977," (with [B. Anderson](#) and [F. Abraham](#)), The Journal of Economics, Vol. V, 1979, 193-195.

"The Derivation of Price Elasticity of Demand From the Response of Total Revenue to Price Changes," The American Economist, Vol. 23, No. 1, Spring 1979, 79.

"The Welfare Cost of Monopoly Power: U.S. Manufacturing, 1972," Industrial Organization Review, Vol. 7, 1979, 34-60.

Guide to Economic Analysis, (with B. Wylie Anderson and Charles Gillette), Kendall-Hunt Publishing, 1978.

"How and Why We Work: A Look at Our Economy," (Motion Picture), Waterloo: Hellman Design Associates, Inc., 1977.

"The Social Costs of Monopoly: Estimates From 100 Selected Manufacturing Industries," Antitrust Law and Economics Review, Vol. 9, No. 2, 1977, 91-101.

"The Welfare Cost of Monopoly Power," Journal of Economics, Vol. II, 1976, 90-94.

"The Rationale of Regulatory Barriers to Entry in Banking: Discussion," Journal of Economics, Vol. 1, 1975-24.

"An Examination of the Trade-Offs in Teaching Economic Principles," (with [A. Sharp](#) and R. Leftwich), Journal of Economic Education, Vol. 7, Fall 1975, 56-58.

PUBLICATION SPONSORED BY GOVERNMENT AGENCIES

Keep Oklahoma Running, [Oklahoma Department of Commerce](#), August 1992.

Economic Impact Analysis of Proposed Changes in IPCB Rules and Regulations, Chapter 2, Rules 312 and 405,

Ozone and Episode Criteria, [R80-11](#), [Illinois Institute of Natural Resources](#) Document No. 81-17. Chicago.

Economic Impact of Proposed Amendment to Snowmobile Noise Regulation, [R79-10](#), [Illinois Institute of Natural Resources](#) Document No. 80-08. Chicago.

CREATIVE ACTIVITY

Study Guide for Principles of Microeconomics, by James D. Miller, 2009

Applied Economics on Video, 1996 - 1998

(15 programs covering an introduction to micro and macroeconomics)

Applied Economics by Satellite, 1992

(42 programs, each 45 minutes in length)

Applied Economics by Satellite, 1990

(45 programs, each 45 minutes in length)

Applied Economics by Satellite, 1989

(45 programs, each 45 minutes in length)

Spectrum Series, Conversations With America's Leaders

(6 videotaped interviews of America's corporate leaders each approximately 15 minutes in length):

Program 1, "U.S. Competitiveness," J. Young, Hewlett-Packard, CEO

Program 2, "Entrepreneurship," K. Koplovitz, USA Network, CEO

Program 3, "Supply and Demand," C. Silas, Phillips Petroleum, CEO

Program 4, "Productivity," M. Miles, Kraft General Foods, CEO

Program 5, "Government and Economics," Gerald Ford, 38th U.S. President

Program 6, "International Trade," J. Young, Hewlett-Packard, CEO

Keep Oklahoma Running-Consume With Care, 1989-1990

(3 teacher training teleconferences, each 2 hours in length)

FUNDED RESEARCH

Project funded by a grant from the U.S. Information Agency to participate in a three-year affiliation between the Texas International Education Consortium and the International Institute for Higher Education in Morocco (1995-1998). Meeting with visiting Moroccan professors in September-October 1996. I traveled to Morocco working on this project in May 1997.

National Science Foundation, "Young Scholars Program, 1991-1992, \$116,556

Oklahoma Regents for Higher Education, "Summer Scholar Program, 1990, \$22,400

Oklahoma Department of Commerce, Exxon Oil Overcharge Settlement Fund, "Keep Oklahoma Running, Consumer With Care," 1989-1991, \$98,000

Phillips Petroleum Company/Junior Achievement, "Applied Economics by Satellite," 1988-1992, \$120,000

PAPERS PRESENTED TO PROFESSIONAL ASSOCIATIONS

Pending Presentation: "Testing Efficiency in the NFL OverUnder Market", Academy of Economics and Finance Meeting, Charleston, SC, March, 2012.

"Icing the Kicker NFL Data 1976 - 2011", (with Ed Blackburne), Missouri Valley Economics Association Meeting, Kansas City, MO, October, 2011.

"Baseball Manager Turnover, 1876 – 2011", (with M. Tuttle), Missouri Valley Economics Association Meeting, Kansas City, MO, October, 2011.

"Gasoline Price Asymmetries: 1980 – 2010", (with M. Tuttle), Missouri Valley Economics Association Meeting, St. Louis, MO, October, 2010.

"Property Taxes: Growth and Equity Across Texas, 2000-2005" (with M. Tuttle and B. Green), Missouri Valley Economic Association Meeting, Kansas City, MO, October 2009.

"Property Tax Trends: Growth and Equity Across Texas Counties, 2000 – 2005 (with M. Tuttle and B. Green), Missouri Valley Economic Association Meeting, Kansas City, MO, October 2007.

"Cross Country Estimates of Price Elasticity" (with Edward Blackburne), Missouri Valley Economic Association Meeting, Kansas City, MO, October 2007.

"State Government Employment versus Population: Does Size Matter?" (D. Berg and M. Tuttle), Southwestern Social Science Association, April 2006, San Antonio, TX.

"State Government Employment versus Population: Does Size Matter?" (D. Berg and M. Tuttle), Academy of Economics and Finance, February 2006, Houston, TX.

"Governor's Salaries: An Economic Examination of Bureaucratic Pay", Southern Economic Association, November 2005.

"Governor's Pay, 1961-2003: Trends and Explanations", Missouri Valley Economic Association, October 2005

"Arthur Burns at the Council of Economic Advisors, Missouri Valley Economic Association, February 2004.

"Critical Research Issues at SHSU", The Leader, Center for Research and Doctoral Studies in Educational Leadership", Sam Houston State University (2002).

"Education and Development," Seminar at International Institute for Higher Education, Rabat, Morocco, May 28, 1997.

"Privatization: Issues, Problems, and Prospects," Seminar at International Institute for Higher Education, Rabat, Morocco, May 21, 1997.

"Transition of the Council of Economic Advisers: 1953-1956," [Missouri Valley Economic Association](#), Memphis, March 1996.

"Arthur Burns and the Transition of the Council of Economic Advisers," [Missouri Valley Economic Association](#), February 1995.

"Competition in U.S. Industries--What Do We Know?" JCEE/NAEE Annual Meeting, Los Angeles, October 1990.

"Teaching Economics by Satellite," [Missouri Valley Economic Association](#), Memphis, February 1990.

"A Utility-Based Restatement of the Law of Demand," (with G. Greenwade), [Missouri Valley Economic Association](#), Memphis, February 1990.

"Productivity and Privatization: Evidence from Bus Transit Industry," (with G. Greenwade), Association for Global Business, New Orleans, November 1989.

"Keynes and the Keynesian Tradition," JCEE\NAEE Annual Meeting, Atlanta, October 1989.

"Efficiency: Concept and Measurement," (with G. Greenwade), [Missouri Valley Economic Association](#), Kansas City, March 1989.

"Productivity and Privatization: Evidence from Urban Bus Transit," (with G. Greenwade), Southern Economic Association, Washington, November 1987.

"The Trade-Offs Between Market Power Increases and Efficiencies in Horizontal Mergers," [Missouri Valley Economic Association](#), St. Louis, March 1986.

"The 1984 Justice Department Guidelines toward Horizontal Mergers," (with P. Nichol), Southern Economic Association, Dallas, November 1985.

"Justice Department Guidelines Towards Horizontal Mergers: Economic Efficiencies," (with P. Nichol), Southwestern Economics Association, Houston, March 1985.

"Procyclical Real Wages and Productivity," (with G. Greenwade), Southwestern Economics Association, Ft. Worth, 1984.

"Intertemporal Welfare Losses in U.S. Manufacturing," (with D. Olson), American Economic Association, San Francisco, December 1983.

"More on Social Costs of Monopoly Power," (with F. Abraham), Atlantic Economic Society, Washington, October 1979.

"Estimating Telephone Toll Demand Elasticities," (with B. Anderson and [F. Abraham](#)), [Missouri Valley Economic Association](#), St. Louis, March 1979.

"The Demand for Intrastate Toll Service in Iowa," (with B. Anderson and [F. Abraham](#)), Southern Economic Association, Washington, November 1978.

"Welfare Loss Due to Monopoly Power: U.S. Manufacturing, 1972," Southern Economic Association, New Orleans, November 1977.

"Macroeconomics Forecasting--Classroom Computer Models," Upper Midwest Hewlett-Packard Users Group, Cedar Falls, April 1976.

"Welfare Loss Due to Monopoly," [Missouri Valley Economic Association](#), Tulsa, February 1976.

"Experiments with Basic Economics at Oklahoma State University," (with A. Sharp and R. Leftwich), American Economic Association, New York, December 1973.

"Government Fiscal Policy," Economic Education Conference for Clergy, Stillwater, September 1973.

BOOK REVIEW

"The Level and Composition of Household Saving," edited by Patric H. Hendershott, Ballinger Publishing, 1985, in Southern Economic Journal, Vol. 52, No. 2, January 1986, 875-876.

"Economics and Technical Change," by Arnold Heertjes, Halsted Press, 1977, in The Journal of Economics, Vol. IV, 1978.

PARTICIPATION IN PROFESSIONAL ASSOCIATIONS

Chair and Discussant, Sports Economics and Applied Microtheory sessions, Missouri Valley Economics Association, October, 2011

Chair and Discussant, two Regional Economic sessions, Missouri Valley Economics Association, October, 2010

Chair and Discussant, two Regional Economic sessions, Missouri Valley Economics Association, October, 2009

Chair and Discussant, two Regional Economic sessions, Missouri Valley Economics Association, October, 2007

Discussant, "Energy Economics", Missouri Valley Economics Association, October, 2007

Chair and Discussant, Southern Economics Association, New Orleans, November 2004.

Discussant, [Missouri Valley Economic Association](#), Kansas City, February 2004.

Discussant, Southern Economic Association, San Antonio, November 2003.

Chair and Discussant, "Applied Microeconomics" and "Public Finance," [Missouri Valley Economic Association](#), Kansas City, February 1998.

Chair and Discussant, "Applied Microeconomics", and "Issues in Economic Policy," [Missouri Valley Economic Association](#), St. Louis, February 27 - March 1, 1997.

Chair and Discussant, "Quality Teaching, Economists Look at Their Own Research," [Missouri Valley Economics Association, Memphis, March 1996.](#)

Chair and Discussant, "Empirical Techniques" and "The Economist and the University," [Missouri Valley Economic Association](#), February 1995.

Discussant, "Factors Affecting Academic Success at an Open University," [Missouri Valley Economic Association](#), St. Louis, February 1994.

Chairman and Discussant, "Issues in Higher Education" and "Economic Education," [Missouri Valley Economic Association](#), Memphis, Tennessee, February 1993.

Chairman and Discussant, "Classroom Teaching of Economics" and "Innovation and Market Share," Southern Economic Association, Washington, November 1992.

Discussant, "Economic Education," [Missouri Valley Economic Association](#), Memphis, February 1990.

Chairman and Discussant, "Productivity: Empirical Evidence," [Missouri Valley Economic Association](#), St. Louis, March 1988.

Chairman and Discussant, "Industrial Organization and Public Policy," and "Applied Microeconomics," [Missouri Valley Economic Association](#), Kansas City, February 1987.

Discussant, "Industrial Organization Application," sponsored by Industrial Organization Society, American Economic Association, New Orleans, December 1986.

Discussant, "Issues in Managerial Economics," Southern Economic Association, New Orleans, November 1986.

Discussant, "Microeconomics: Technology," [Missouri Valley Economic Association](#), St. Louis, March 1986.

Discussant, "Antitrust Policy," sponsored by Industrial Organization Society, American Economic Association, New York, December 1985.

Chairman, "Industrial Organization," Southern Economic Association, Dallas, November 1985.

Chair and Discussant, "Financial Markets," and "Law and Economics," Southwest Economics Association, Houston, March 1985.

Discussant, "Economic Growth," [Missouri Valley Economic Association](#), Memphis, March 1985.

Discussant, "Industrial Organization," Southwestern Economics Association, Ft. Worth, March 1984.

Discussant, "Applied Microeconomic," [Missouri Valley Economic Association](#), Kansas City, March 1984.

Chair and Discussant, "Industrial Organization," [Missouri Valley Economic Association](#), St. Louis, February 1983.

Discussant, "Decision Making Health Care," Southern Economic Association, Atlanta, November 1982.

Discussant, "Income Distribution," and Chairman of Session on "Labor-Managed Firms," Southwestern Economics Association, San Antonio, March 1982.

Discussant, "Antitrust and Regulatory Problems," and "Monopoly and Monopsony Pricing," Southern Economic Association, New Orleans, November 1981.

Chairman, "Structure of Industry," [Missouri Valley Economic Association](#), Oklahoma City, February 1980.

Discussant, "Industrial Organization and Antitrust," Midwest Economic Association, Chicago, March 1980.

Discussant, "Industrial Organization," [Missouri Valley Economic Association](#), Memphis, February 1980.

Discussant, "Industrial Organization," Southern Economic Association, Atlanta, November 1979.

Chairman, "Microeconomic Theory," Atlanta Economic Society, Washington, October 1979.

Chairman, "Market Structure, Costs, and Pricing," Southern Economic Association, Washington, November 1979.

Discussant at Midwest Economic Association, Chicago, April 1978.

Discussant at [Missouri Valley Economic Association](#), Kansas City, February 1978.

Speaker in Economic Colloquium Series, University of Northern Iowa, January 1978.

Participation in Program for Teachers of Economics, Graduate School of Business, University of Chicago, Summer 1977.

Discussant at Media Conference in Economics, Cedar Falls, April 1977.

Discussant at Conference on Problems in the Regulatory Process, Cedar Falls, April 1975.

Discussant at [Missouri Valley Economic Association](#), St. Louis, October 1974.

Participated in National Science Foundation Workshop on Computer Assisted Instruction, DeKalb, August 1973.

RESEARCH IN PROGRESS

“Market Efficiencies”

"History of Council of Economic Advisors"

Regional Economic Development Topics

SPECIAL AWARDS AND PROFESSIONAL SERVICE

Faculty Senate, Sam Houston State University 1994 – 1995 and 2008 – present.

Jerome Schwier Service Award, [Missouri Valley Economic Association](#), 1996.
Bronze Leadership Award, [Junior Achievement Inc.](#), 1990.
President's Teaching Award Nominee, Department of Economic & Honors Programs,
[Texas Tech University](#), 1987.
Outstanding Professor in Honors Program, [Texas Tech University](#), 1985-86.
New Faculty Grant, [Texas Tech University](#), 1982.
Recipient of Faculty Research Fellowship, [University of Northern Iowa](#), 1977.
[Oklahoma State University](#) Education Innovation Grant, 1974.

PROFESSIONAL AND HONORARY ORGANIZATIONS

[Beta Gamma Sigma](#)

Omicron Delta Epsilon, Faculty Advisor, 1981-86.

[Southern Economic Association](#)

[Missouri Valley Economic Association](#)

Director of Association, 1979-81

Vice President, 1985-86

President-elect, 1986-87

President, 1987-88

[Atlantic Economic Society](#)

[Industrial Organization Society](#)

[American Economic Association](#)

[National Association of Business Economists](#)

[National Association of Economic Educators](#), Awards Committee, 1990-91

Educational Subcommittee, [American Gas Association](#), 1990-1993

Texas Association of Graduate Schools, 1995-2003

[Conference of Southern Graduate Schools](#), 1995-2003

OTHER PROFESSIONAL ACTIVITIES

Adjunct Professor, LSU Graduate School of Banking, Baton Rouge, LA, May, 2011.

Reviewer McGraw-Hill and Prentice Hall, 2007-2008

Reviewer McGraw-Hill and Prentice Hall, 2006-2007.

Participant in Microeconomics Seminar, McGraw-Hill, Boulder, Colorado, April, 2007.

Reviewer MIT Press, 2005

Presentation, "Research Exchange", SHSU University Research Exchange, April, 2003.

Presentation, "Research Exchange", SHSU University Research Exchange, April 17, 2002.

Presentation, "Research Exchange", SHSU University Research Exchange, April 15, 2000.

Presentation, "An Overview of the Moroccan Economy," Seminar at [Sam Houston State University](#), October 1997.

Presentation, "Privatization: Issues, Problems, and Prospects," Seminar at [International Institute for Higher Education in Morocco](#), Rabat, May 21, 1997

Presentation, "Education and Development," Seminar at [International Institute for Higher Education in Morocco](#), Rabat, May 28, 1997

Reviewer, [Southwestern Economic Review](#), 1994-95

Columnist, [The Tulsa Tribune](#), 1988-1991

Presentation, "Education to Understand Economic Development," Conference on Linking Education and Economic Development, Fountainhead, OK, May 4-6, 1988

Editorial Review Board, Journal of Business Strategies, 1988-1991

Columnist, Greater Lubbock (publication of [Lubbock Chamber of Commerce](#)), July 1986

Board of Editors, Review of Industrial Organization, 1986-1987

Reviewer for E. Dolan, Basic Economics, 4th edition, Dryden Press, 1986

Fischer, Dornbusch and Schmalensee, Economics, 2nd edition, McGraw-Hill, 1988

P. Samuelson and Nordhaus, Economics, 13th edition, McGraw-Hill, 1989

R. Pindyck and D. Rubinfeld, Microeconomics, 4th Edition.

Assistant Editor, [Journal of Economics](#), various years

Reviewer for Review of Social Economy, Journal for Southwest Society of Economists

Consultant in CAUSE Program, National Science Foundation, [Washington and Lee University](#), Lexington, VA, 1977-1980

Economic Consultant, Brice-Petrides and Associates, Waterloo, IA, 1977-1979

Economic Consultant, Northwestern Bell Telephone, Omaha, NE, 1978-1981

Senior Economic Consultant, [Ketron, Inc.](#), Arlington, VA, 1977

Revised: January, 2012