

## V I T A

# J. BARKLEY ROSSER, JR.

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### A D D R E S S

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**Date of Birth** April 12, 1948

**Marital Status** Married, three children

**Citizenship** United States

## **A C A D E M I C   B A C K G R O U N D**

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### **Degrees**

Ph.D., University of Wisconsin, Madison, December 1976

M.A., University of Wisconsin, Madison, June 1972

B.A., University of Wisconsin, Madison, June 1969

### **Professional Experience**

James Madison University, Department of Economics, 1977-present

Scuola Superiore Sant'Anna, Pisa, Italy, Visiting Professor, Summer 2013; Summer 2015

Universidad de San Francisco de Quito, Ecuador, Visiting Professor, Summer 2011

Max Planck Institute of Economics, Jena, Germany, Summer Institute, 2008

Chuo University, Tokyo, Japan, Visiting Professor, Summer 2005

Università Politecnica della Marche, Ancona, Italy, Visiting Professor, Summer 2004

University of Paris-South-XI-Sceaux, France, Visiting Professor, Fall 2002

University of Newcastle, Australia, Visiting Research Professor, Summer 1995

Umeå University, Sweden, Visiting Research Professor, Summer 1994

University of Wisconsin-Madison, Department of Economics, Summer Session,  
1993, 1992, 1991, 1989, 1988, 1986, 1985, 1979

University of Wisconsin-Madison, Visiting Fellow, Summer 1996, Summer 1997, Summer  
1998, Summer 1999, Summer 2000, Summer 2001, Summer 2003, Summer 2006,  
Summer 2009, Summer 2010

Saudi Computer and Information Center, 1981

U.S. Forest Service, 1980

Mary Baldwin College, Urban Economics and Environmental Planning, 1977

Wisconsin Department of Natural Resources, 1976

Wisconsin State Planning Office, 1975-1976

Institute for Environmental Studies, University of Wisconsin-Madison, 1972-1975

## Fields of Interest

Economic Theory

Complex Nonlinear Systems

Environmental and Ecological Economics

Urban and Regional Economics

Comparative Economic Systems

International Macroeconomics and Finance

## REFERENCES

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Eugene Smolensky, Graduate School of Public Policy, University of California,  
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## PUBLICATIONS

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### Books

*From Catastrophe to Chaos: A General Theory of Economic Discontinuities, Vol. I: Mathematics, Microeconomics, Macroeconomics, and Finance*, Second Edition, Boston: Kluwer Academic Publishers, 2000.

*Instructor's Manual for Comparative Economics in a Transforming World Economy*, (with Marina V. Rosser), Chicago: Richard D. Irwin, Inc., 1996., third Edition, 2018, Cambridge: MIT Press.

*Comparative Economics in a Transforming World Economy*, (with Marina V. Rosser), Chicago: Richard D. Irwin, Inc., 1996; second edition, 2004, Cambridge, MA: MIT Press; third edition, 2018, Cambridge, MA: MIT Press.

*From Catastrophe to Chaos: A General Theory of Economics Discontinuities*, Boston: Kluwer Academic Publishers, 1991.

*Complexity in Economics: The International Library of Critical Writings in Economics 174*, (edited, 3 volumes), Aldergate: Edward Elgar, 2004.

*The Changing Face of Economics: Conversations with Cutting Edge Economists*, (with David Colander and Richard P.F. Holt), Ann Arbor: University of Michigan Press, 2004.

*Handbook of Research on Complexity*, (edited), Cheltenham: Edward Elgar, 2009.

*European Economics at a Crossroads*, (with David Colander and Richard P.F. Holt), Cheltenham: Edward Elgar, 2010.

*Complex Evolutionary Dynamics in Urban-Regional and Ecological Economic Systems: Beyond Catastrophe and Chaos*, Heidelberg: Springer, 2011.

*Foundations of Complexity Economics*, Springer, (in progress).

### Articles and Comments in Refereed Journals

"Speculative Bubbles in Real Estate – A Post Global Financial Crisis Perspective," (with Ehsan Ahmed and Jamshed Y. Uppal) *Real Estate Finance*, forthcoming.

"The Minsky Moment and the Revenge of Entropy," *Macroeconomic Dynamics*, January 2020, vol. 24, no. 1, pp. 7-23.

"Consistency and Incompleteness in General Equilibrium Theory," (with Simone Landini and Mauro Gallegati), *Journal of Evolutionary Economics*, 2020, vol. 30, no. 1, pp. 205-230, <https://doi.10.1007/s00191-018-0850-0>

"Austrian Themes and the Cambridge Controversies in the Theory of Capital," *Review of Austrian Economics*, 2020, vol. 33, no. 4, pp. 415-431.

"The Economist Watcher: The Economic Contributions of David Colander," (with Richard P.F. Holt), *Review of Political Economy*, 2018, vol. 30, no.4, pp. 534-555.

"Complexity and Institutional Evolution," (with Marina V. Rosser) *Evolutionary and Institutional Economic Review*, December 2017, vol. 14, no. 2, pp. 415-430.

"Speculative Behavior and Islamic Investments," (with Ehsan Ahmed and Jamshed Y. Uppal) *Journal of Emerging Markets*, Spring-Fall 2017, vol. 21, nos. 1-2, pp.1-20.

"Introduction to Special Issue Honoring Richard A. Easterlin," *Review of Behavioral Economics*, 2017, vol. 4, no. 4, 295-300.

"Financialization and Speculative Bubbles: International Evidence," (with Ehsan Ahmed and Jamshed Y. Uppal) *Journal of Applied Business and Economics*, 2017, vol. 19, no. 1, pp. 10-29.

"Entropy and Econophysics," *European Physical Journal - Special Topics*, December 2016, vol. 225, nos. 17-18, pp. 3091-3104.

"Governance Issues in Complex Ecologic-Economic Systems," *Review of Behavioral Economics*, 2016, vol. 3, nos. 3-4, pp. 335-357.

"A Raging Bull or a Long Term Speculative Bubble? The Puzzling Case of the Karachi Stock Exchange," (with Ehsan Ahmed and Jamshed Y. Uppal) *Pakistan Development Review*, Summer 2016, vol. 55, no. 2, pp. 79-83.

"The Paradox of New Traditional Confucian Economics in the Two Koreas," (with Marina V. Rosser), *Comparative Economic Studies*, March 2016, vol. 58, no. 1, pp. 119-138.

"Reconsidering Ergodicity and Fundamental Uncertainty," *Journal of Post Keynesian Economics*, Winter-Spring 2016, vol. 38, no. 3, pp. 331-354.

"Complexity and Behavioral Economics," (with Marina V. Rosser), *Nonlinear Dynamics, Psychology, and Life Sciences*, April 2015, vol. 19, no. 2, pp. 201-226.

"The Foundations of Economic Complexity in Behavioral Rationality and Heterogeneous Expectations," *Journal of Economic Methodology*, September 2014, vol. 21, no. 3, pp. 308-312.

"Are There Speculative Bubbles in Commodities Prices?" (with Ehsan Ahmed and Jamshed Y. Uppal), *Journal of Post Keynesian Economics*, Spring 2014, vol. 36, no. 3, pp. 415-438.

"Special Problems of Forests as Ecologic-Economic Systems." *Forest Policy and Economics*, October 2013, vol. 35, Special Issue, pp. 31-38.

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"On the Foundations of Mathematical Economics," *New Mathematics and Natural Computation*, March 2012, vol. 8, no. 1, pp. 53-72.

"Emergence and Complexity in Austrian Economics," *Journal of Economic Behavior and Organization*, January 2012, vol. 81, no. 7, pp. 122-128.

"The Complexity Era in Economics." (with Richard P.F. Holt and David Colander), *Review of Political Economy*, July 2011, vol. 23, no. 3, pp. 359-371.

"The Period of Financial Distress in Speculative Markets: Interacting Heterogeneous Agents and Financial Constraints." (with Mauro Gallegati and Antonio Palestrini) *Macroeconomic Dynamics*, February 2011, vol. 15, no. 1, pp. 60-79.

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"Financial Development and Bubbles: The Case of the Karachi Stock Exchange of Pakistan." (with Ehsan Ahmed and Jamshed Y. Uppal), *Journal of Emerging Markets*, Summer 2010, vol. 15, no. 2, pp. 33-48.

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"Is a Transdisciplinary Perspective on Economic Complexity Possible?" *Journal of Economic Behavior and Organization*, July 2010, vol. 75, no. 1, pp. 3-11.

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"How to Influence Friends and (Possibly) Influence Mainstream Economic," (with David Colander and Richard P.F. Holt), *Journal of Post Keynesian Economics*, Spring 2010, vol. 32, no. 3, pp. 397-408.

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"Post-Hayekian Socialism a la Burczak: Observations." (with Marina V. Rosser) *Review of Austrian Economics*, 2009, vol. 22, no. 3, pp. 289-292.

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"Nonlinear Bubbles in Chinese Stock Markets in the 1990s," (with Ehsan Ahmed and Honggang Li), *Eastern Economic Journal*, Winter 2006, vol. 32, no. 1, pp. 1-18.

"*The Road to Serfdom* and the World Economy: 60 Years Later," *European Journal of Political Economy*, December 2005, vol. 21, no. 4, pp. 1012-1025.

"The Transition between the Old and New Traditional Economies in India," (with Marina V. Rosser), *Comparative Economic Studies*, September 2005, vol. 47, no. 3, pp. 561-578.

"Introduction to special issue on 'Topics in dynamics of economic behavior and organization,' festschrift in honor of Richard H. Day," *Journal of Economic Behavior and Organization*, April 2005, vol. 56, no. 4, pp. 459-463.

"Forestry Complex Dynamics and Policy Problems," *Studies in Regional Science*, 2004, vol. 34, no. 2, pp. 3-18.

"Epistemological Implications of Economic Complexity," *Annals of the Japan Association for Philosophy of Science*, November 2004, vol. 13, no. 1, pp. 45-57.

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"Market Dynamics and Stock Price Volatility," (with Honggang Li), *The European Physical Journal B*, June 1, 2004, vol. 39, no. 3, pp. 409-413.

"Complex Dynamics of Macroeconomic Collapse and its Aftermath in Transition Economies" (with Marina Vcherashnaya Rosser), *Eastern Economic Journal*, Spring 2004, vol. 30, no. 2, pp. 207-221.

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"Chaotic Hysteresis and Systemic Economic Transformation: Soviet Investment Patterns," (with Marina V. Rosser, Stephen J. Guastello, and Robert W. Bond, Jr.) *Nonlinear Dynamics, Psychology, and Life Sciences*, October 2001, vol. 5, no. 4, pp. 345-368.

"Alternative Keynesian and Post Keynesian Perspectives on Uncertainty and Expectations," *Journal of Post Keynesian Economics*, Summer 2001, vol. 23, no. 4, pp. 545-566.

"Complex Ecologic-Economic Dynamics and Environmental Policy," *Ecological Economics*, April 2001, vol. 37, no. 1, pp. 23-37.

"Consistent Expectations Equilibria and Complex Dynamics in Renewable Resource Markets," (with Cars H. Hommes) *Macroeconomic Dynamics*, April 2001, vol. 5, no. 2, pp. 180-203.

"Another Failure of the Washington Consensus on Transition Countries: Inequality and Underground Economies," (with Marina V. Rosser) *Challenge: The Magazine of Economic Affairs*, March-April 2001, vol. 44, no. 2, pp. 39-50.

"Risk and Austrian Business-Cycle Theory: Rejoinder to Cowen," *Critical Review*, 2000, vol. 14, no. 1, pp. 95-97.

"A New Perspective on Economic Discontinuity," *The Journal of Management and Economics: An Electronic Journal*, November 2000, vol. 4, no. 4,  
<http://www.econ.uba.ar/www/servicios/publicaciones/journal4/index.htm>

"Aspects of Dialectics and Nonlinear Dynamics" *Cambridge Journal of Economics*, May 2000, vol. 24, no. 3, pp. 311-324.

"Self-Fulfilling Chaotic Mistakes: Some Examples and Implications" *Discrete Dynamics in Nature and Society*, 2000, vol. 4, no. 1, pp. 29-37.

"Income Inequality and the Informal Economy in Transition Economies" (with Marina V. Rosser and Ehsan Ahmed) *Journal of Comparative Economics*, March 2000, vol. 28, no. 1, pp. 156-171.

"Between Vienna and Cambridge: The Risky Business of New Austrian Business Cycle Theory," *Critical Review: An Interdisciplinary Journal of Politics and Society*, 1999, vol. 13, nos. 3-4, pp. 373-389.

"On the Complexities of Complex Economic Dynamics," *Journal of Economic Perspectives*, Fall 1999, vol. 13, no. 4, pp. 169-192.

"State-Space Estimation of Rational Bubbles in the Yen/Deutsche Mark Exchange Rate," (with S. Kirk Elwood and Ehsan Ahmed) *Weltwirtschaftliches Archiv*, 1999, vol. 135, no. 2, pp. 317-331.

"Evidence of Nonlinear Speculative Bubbles in Pacific-Rim Stock Markets," (with Ehsan Ahmed and Jamshed Y. Uppal) *Quarterly Review of Economics and Finance*, Spring 1999, vol. 39, no. 1, pp. 21-36.

"The New Traditional Economy: A New Perspective in Comparative Economics," (with Marina V. Rosser), *International Journal of Social Economics*, 1999, vol. 26, nos. 5-6, pp. 763-778.

"Neglected Prophets: Paul Davidson: The Truest Keynesian?" (with Richard P. F. Holt and L. Randall Wray) *Eastern Economic Journal*, Fall 1998, vol. 24, no. 4, pp. 495-506.

"Islamic and Neo-Confucian Perspectives on the New Traditional Economy," (with Marina V. Rosser), *Eastern Economic Journal*, Spring 1998, vol. 24, no. 2, pp. 217-227.

"Coordination and Bifurcation in Growing Spatial Economies," *Annals of Regional Science*, 1998, vol. 32, no. 1, pp. 133-143.

"Discrete Dynamics in Transitional Economies," (with Marina V. Rosser), *Discrete Dynamics in Nature and Society*, 1998, vol. 1, no. 4, pp. 269-281.

"William Vickrey's Legacy: Innovative Policies for Social Concerns," (with David C. Colander, Richard P.F. Holt, and David A. Kennett) *Eastern Economic Journal*, Winter 1998, vol. 24, no. 1, pp. 1-6.

"Complex Dynamics and Systemic Change: How Things Can Go Very Wrong," (with Marina V. Rosser), *Journal of Post Keynesian Economics*, Fall 1997, vol. 20, no. 1, pp. 103-122.

"Speculations on Nonlinear Speculative Bubbles," *Nonlinear Dynamics, Psychology, and Life Sciences*, October 1997, vol. 1, no. 4, pp. 275-300.

"Schumpeterian Evolutionary Dynamics and the Collapse of Soviet-Bloc Socialism," (with Marina V. Rosser), *Review of Political Economy*, 1997, vol 9, no. 2, pp. 211-223.

"Complex Bubble Persistence in Closed-End Country Funds," (with Ehsan Ahmed, Roger Koppl, and Mark V. White), *Journal of Economic Behavior and Organization*, January, 1997, vol. 32, no. 1, pp. 19-37.

"On the Possibility of Rational Deflationary Bubbles," *Rivista Internazionale di Scienze Economiche e Commerciali*, October-December, 1996, vol. 43, no. 4, pp. 729-740.

"Asset Speculative Bubbles in Emerging Markets: The Case of Pakistan," (with Ehsan Ahmed and Jamshed Uppal), *Pakistan Economic and Social Review*, Winter 1996, vol. 34, no. 2, pp. 97-118.

"Endogenous Chaotic Dynamics in Transitional Economies," (with Marina V. Rosser), *Chaos, Solitons and Fractals*, 1996, vol. 7, no. 12, pp. 2189-2197.

"Nonlinear Speculative Bubbles in the Pakistani Stock Market," (with Ehsan Ahmed), *Pakistan Development Review*, Spring, 1995, Vol.34, No. 1, pp. 25-41.

"Systemic Crises in Hierarchical Ecological Economies," *Land Economics*, May 1995, vol. 71, no. 2, pp. 163-172.

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"A Vector Autoregressive Model of the Saudi Arabian Economy," (with Richard G. Sheehan), *Journal of Economics and Business*, February 1995, Vol. 47, no. 1, 79-90.

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"Long Wave Chaos and Systemic Economic Transformation," (with Marina V. Rosser), *World Futures: The Journal of General Evolution*, 1994, Vol. 39, 197-207.

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"Morphogenesis of Urban Historical Forms," *Socio-Spatial Dynamics*, July 1992, vol. 3, no. 1, pp. 17-34.

"Fundamental Issues in Nonlinear Urban Population Dynamic Models: Theory and a Synthesis," (with Dimitrios S. Dendrinos), *Annals of Regional Science*, 1992, 26, 135-145.

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"Chaos Theory and the New Keynesian Economics," *The Manchester School of Economic and Social Studies*, September, 1990, vol. 58, pp. 265-291.

"A Comparison of National and International Aggregate Supply and Demand VAR Models: The United States, Japan and the European Economic Community," (with Ehsan Ahmed and Richard G. Sheehan), *Weltwirtschaftliches Archiv*, 1989, Heft 2, Band 125, pp. 252-271.

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## Book Chapters

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"The Rise and Fall of Catastrophe Theory Applications in Economics: Was the Baby Thrown Out with the Bathwater?" History of Economics Society, Allied Social Science Association, Washington, January 2003; Eighth Vienna Workshop on Optimal Control, Dynamic Games, and Nonlinear Dynamics, Vienna, Austria, semi-plenary lecture, May 2003; Conference on Mathematical Economics and Complexity, Trieste, Italy, June 2004; Society for Nonlinear Dynamics and Econometrics, London, April 2005; Max Planck Institute of Economics Summer Institute, Jena Germany, August 2008.

"Adaptive and Statistical Expectations in Renewable Resource Markets," (with Ilaria Foroni and Laura Gardini), Third International Conference on Discrete Chaotic Dynamics in Nature and Society, Chuo University, Tokyo, September 2002.

"A reconsideration of the role of discontinuity in regional economic models," Complex Dynamics in Time and Space, conference to honor Tönu Puu, University of Southern

Denmark, Odense, August 2002; Conference on Complex Dynamic Modeling of Economic Behavior, Aix-en-Provence, France, May 2003.

"The Cutting Edge of Economics," (with David Colander and Richard P.F. Holt), Eastern Economic Association, Boston, March 2002.

"The Complexities of Complex Economic Systems," keynote address, Society for Chaos Theory in Psychology and Life Sciences, University of Wisconsin-Madison, August 2001, Special Summer Institute, Chuo University, Tokyo, September 2002.

"Fisheries Management and Complex Dynamics," First conference of the United States Society for Ecological Economics, Duluth, July 2001.

"The Development of Complex Oligopoly Dynamics," Conference on Oligopoly and Complex Dynamics, Umeå, Sweden, June 2001.

"The Transition Between the Old and New Traditional Economies in India," (with Marina V. Rosser) Eastern Economic Association, New York, February 2001.

"All That I Have Say Will Already Have Passed Through Your Mind," (with Roger Koppl) Economics Seminar, James Madison University, February 2001; International Conference on Computation in Economics and Finance, Aix-en-Provence, June 2002; Sixth Conference on Complex Dynamics, Chuo University, Tokyo, September 2002.

Paradigm Lost: The Transformation of Comparative Economics," (with Marina V. Rosser) Madison Scholar Lecture, College of Business, James Madison University, October 2000.

"Fisheries Management and Complex Dynamics" Pacific Regional Science Council and Japan Science Council, Tokyo, October 2000.

"The History of Catastrophe Theory," History of Economics Seminar, Duke University, September 2000.

"Complex Economic Dynamics in the New World Economy," Strategic Assessments Group, Rosslyn, VA July 2000.

"Multiple Unofficial Economy Equilibria and Income Distribution Dynamics in Systemic Transition," (with Marina V. Rosser and Ehsan Ahmed) Second International Conference on Discrete Chaotic

"Dynamics in Nature and Society," Odense, Denmark, May 2000, Sixth Post Keynesian Workshop, Knoxville, June 2000, Southern Economic Association, Crystal City, November 2000, Association for Comparative Economic Studies, Atlanta, January 2002, Eastern Economic Association, Boston, March, 2002, and Conference on Macrodynamics Modeling, UNAM, Mexico City, March 2003.

"Evidence of Nonlinear Speculative Bubbles in Chinese Financial Markets in the 1990s" (with Ehsan Ahmed and Honggang Li) Eastern Economic Association meetings, Crystal City/Arlington, March 2000.

"Keynesian Comparative Economics: The Iconoclastic Revisionism of Lynn Turgeon" (with Timothy A. Canova, Richard P.F. Holt, Robert N. Horn, and Marina V. Rosser) Eastern Economic Association, Crystal City/Arlington, March 2000.

"The Problem of Global Environmental Policy in a World of Complex Ecological-Economic Dynamics" Japan Association for Evolutionary Economics, Tokyo, Japan, March 2000, and at Chuo Research Unit on Global Environment and at Japan Science Council, both also Tokyo, March 2000.

"Volatility via Social Flaring" and "Society for Nonlinear Dynamics and Econometrics" (with Ehsan Ahmed and Georg Hartmann), Conference on Dynamic Modeling in Economics and Finance, Urbino, Italy, September 2002; Atlanta Federal Reserve Bank, March 2001. Workshop on Expectations and Learning in Finance and Economics, University of Technology-Sydney, Australia, December 1999.

"The Evolution of Keynesian Views of Uncertainty and Expectation" Twelfth World Congress of the International Economic Association, Buenos Aires, August 1999, and James Madison University, October 1999.

"The Rise and Fall of Pacific Rim Bubbles," Eastern Economic Association, Boston, March 1999.

"On the Complexities of Complex Economic Dynamics," James Madison University, January 1999, and University of California-Riverside, February 1999, also at George Mason University, April 1999, and Brookings Institution, Washington, October 1999.

"Divergent Distributional Dynamics in Transitional Economies," (with Marina V. Rosser), Association for Comparative Economics, New York, January 1999, also at Middlebury College, April 1999, and at Society for the Advancement for Socio-Economics, Madison, July 1999, and Twelfth World Congress of International Economic Association, Buenos Aires, August 1999.

"Consistent Expectations Equilibria and Complex Dynamics in Renewable Resource Markets" (with Cars H. Hommes), Econometric Society, New York, January 1999, and Twelfth World Congress of International Economic association, Buenos Aires, August 1999.

"Self-Fulfilling Chaotic Mistakes: Some Examples," First International Conference on Discrete Chaotic Dynamics in Nature and Society, October 1998, Ben-Gurion University of the Negev, Beer-Sheva, Israel.

"Forms of Complex Dynamics in Transforming Economies," Fifth Post Keynesian Economics Conference, Knoxville, June 1998.

"Integrating the Complexity Vision into Mathematical Economics," Conference on Complexity and the Teaching of Economics, Middlebury College, April 1998.

"Complex Dynamics on Renewable Resource Markets" (with Car H. Hommes), Eastern Economic Association, New York, February, 1998.

"State-Space Examination of Bubbles in Exchange Rates" (with S. Kirk Elwood and Ehsan Ahmed), Eastern Economic Association, New York, February 1998.

"Discrete Dynamics in Transitional Economics" (with Marina V. Rosser), Eastern Economic Association, New York, February 1998.

"Uncertainty and Expectation," Eastern Economic Association, New York, February 1998.

"Statics and Dynamics in Value Theory," Eastern Economic Association, February 1998.

"Forms of Complex Dynamics in Transforming Economies" (with Marina V. Rosser), Sixth Viennese Workshop on Optimal Control, Dynamic Games, Nonlinear Dynamics and Adaptive Systems, Technical University of Vienna, Austria, May 1997.

"What Can We Say About Complex Macroeconomic Dynamics?" Conference on the Future of Classroom Macroeconomics, Middlebury College, April 1997.

"Islamic and Neo-Confucian Perspectives on the New Traditional Economy" (with Marina V. Rosser), Eastern Economic Association, Crystal City/Arlington, April 1997.

"Observations on the Work of William Vickrey: Innovative Policies for Social Concerns," Eastern Economic Association, Crystal City/Arlington, April 1997.

"Evidence of Nonlinear Speculative Bubbles in Pacific-Rim Stock Markets" (with Ehsan Ahmed and Jamshed Y. Uppal) Eastern Economic Association, Crystal City/Arlington, April 1997.

"Dialectics and Nonlinear Dynamics" Allied Social Science Association, New Orleans, January 1997.

"Coordination and Bifurcation in Growing Spatial Economies," Endogenous Growth and the Space Economy, Tinbergen Institute, Amsterdam, December 1996.

"The New Traditional Economy: A New Paradigm in Comparative Economics?" (with Marina V. Rosser), Sixth International Karl Polanyi Conference, Embedding Society and Economy in the Environment, Concordia University, Montreal, October 1996.

"Speculations on Nonlinear Speculative Bubbles," plenary address, Society for Study of Chaos Theory in Psychology and the Life Sciences, Berkeley, June 1996.

"Complexity and the Holmes/Moriarty Problem" (with Roger Koppl), Eastern Economic Association, Boston, March 1996.

"Macroeconomic Collapse During Systemic Change" (with Marina V. Rosser), Eastern Economic Association, Boston, March 1996.

"The Prehistory of Chaotic Economic Dynamics," International Economic Association, Tunis, December 1995.

"Nonlinear Analysis of Speculative Bubbles in Selected Stock Markets" (with Ehsan Ahmed and Jamshed Uppal), Southern Economic Association, New Orleans, November 1995.

"The Emergence of Chaotic Dynamics in Transitional Economies" (with Marina V. Rosser), Conference on Bifurcations and Chaos in Social and Economic Systems, Umea, Sweden, September 1995.

"New Evidence of Speculative Bubbles in Pakistani Stock Markets," (with Ehsan Ahmed and Jamshed Uppal), Eastern Economic Association, New York, March 1995.

"Complex Dynamics and Systemic Change: How Things Can Go Very Wrong," (with Marina V. Rosser), Allied Social Sciences Association, Washington, January 1995, also presented at University of Wisconsin-Madison, July 1995.

"A Complex Systems Dynamics Perspective on Post Keynesian and New Keynesian Economics," Post Keynesian Study Group, London, October 1994, also presented at University of Pisa, Italy, December 1994, University of Newcastle, Australia, May 1995.

"Exogenous versus Endogenous Factors in Systemic Reorganization," International Conference on the Complexity and Self-Organization of Socio-Economic Systems, Beijing, October 1994.

"Nonlinear Speculative Bubbles in the Pakistani Stock Market," (with Ehsan Ahmed), Eastern Economic Association, Boston, March 1994.

"Chaos Theory and the Macrofoundations of Micro," Eastern Economic Association, Boston, March 1994, also presented at Middlebury College, April 1994.

"Complex Bubble Persistence in Closed-End Country Funds," (with Ehsan Ahmed, Roger Koppl, and Mark White), Eastern Economic Association, Boston, March 1994, also presented at Claude Fourgeaud Seminar in Economic Theory, Paris, November 1994, Cranfield University, England, December 1994, Middlebury College, April 1995, University of technology-Sydney, Australia, May 1995.

"Systemic Crises in Hierarchical Ecological Economies," Allied Social Sciences Association, Boston, January 1994, also presented at University of Newcastle, Australia, May 1995.

"Discontinuous Change in Multilevel Hierarchical Systems," (lead author) (with Carl Folke, Folke Gunther, Heikki Isomaki, Charles Perrings, Garry Peterson, and Tonu Puu), Workshop on Complex Ecological Economic Systems Modeling, Beijer International Institute of Ecological Economics, Swedish Royal Academy of Sciences, Stockholm, September 1993.

"Schumpeterian Evolutionary Dynamics and the Collapse of Socialism," (with Marina V. Rosser), Eastern Economic Association, Washington, March 1993, also presented at University of Wisconsin-Madison, July 1993.

"A Comparison of Comparative Economic Anthropologies," (with Marina V. Rosser), Eastern Economic Association, Washington, March 1993.

"Nonlinear Bubbles in Foreign Exchange Rates," (with Ehsan Ahmed and Melvin D. Ayogu), Southern Economic Association, Washington, November 1992.

"Schumpeterian Cycles and the Transition from Socialism to Capitalism," (with Marina V. Rosser), International Economic Association, Moscow, August 1992.

"The Limits of Predictability," Plenary Address, Workshop on Complex Ecological Economic Systems Modeling, Beijer International Institute of Ecological Economics, Swedish Royal Academy of Sciences, Stockholm, July 1992.

"Survey of Non Linear Dynamic Modelling in Economics," International Workshop on Non Linear Evolution of Spatial Economic Systems, Netherlands Institute for Advanced Study in the Humanities and Social Sciences, Wassenaar, June 1992.

"Chaos and Rationality in Economics," Eastern Economic Association, New York, March 1992.

"Chaotic Hysteresis and Systemic Economic Transformation," (with Marina V. Rosser), American Economic Association, New Orleans, January 1992.

"Long Wave Chaos and Systemic Economic Transformation," (with Marina V. Rosser), Allied Social Science Association, New Orleans, January 1992.

"Fundamental Issues in Nonlinear Urban Dynamic Models: Theory and a Synthesis," (with Dimitrios S. Dendrinos), Eastern Economic Association, Pittsburgh, March 1991.

"Chaotic Bubbles in Foreign Exchange Rates," (with Ehsan Ahmed and Melvin Ayogu), American Economics Association, Washington, December, 1990.

"The Economics of Species Extinction," International Federation of Organic Agriculture Movements, Budapest, Hungary, August 1990.

"The Dialogue Between the Theories of Economic and Ecologic Evolution," Eastern Economic Association, Cincinnati, March 1990.

"On the Possibility of Rational Deflationary Bubbles," Eastern Economic Association, Cincinnati, March 1990, also presented at University of Leuven, Belgium.

"The Role of Discontinuity in Capital Theory," Allied Social Science Association, Atlanta, GA, December 1989.

"Higher Dimensional Crashes of Semi-Rational Speculative Bubbles," Southern Economic

Association, Orlando, FL, November 1989, also presented at Claude Fourgeaud Seminar on Economic Theory, Paris, November 1990.

"Morphogenesis of Regional Systems," Southern Economic Association, Orlando, FL, November 1989.

"Chaos Theory and the New Keynesian Economics," Southern Economic Association, San Antonio, Texas, November, 1988.

"Continuity and Discontinuity in Economic Analysis," Virginia Social Science Association, Richmond, Virginia, March, 1985.

"Saudi Oil Prices and Saudi Import Prices: The Global Inflationary Feedback Mechanism," Virginia Social Science Association, Charlottesville, Virginia, March, 1984.

"A Catastrophe Model of White Flight," Southern Economics Association, Washington, D.C., November, 1980.

"Reswitching as a Cusp Catastrophe," Western Economics Association, San Diego, June, 1980.

"The Emergence of the Megacorpstate and the Acceleration of Global Inflation," Virginia Social Science Association, Virginia Beach, March, 1980.

"Reswitching and Dynamic Discontinuities in Optimal Path Models," Southern Economics Association, Atlanta, Georgia, November 1979.

"Economic Impacts of Alternative Wastewater Disposal Systems," Virginia Economics Association, Virginia Beach, March, 1979.

"Prejudice, Expectations, and Ghetto Boundary Movement," Southern Economics Association, Washington, D.C., November, 1978.

"Reswitching Between Food and Energy Production in the Western United States," (with Raymond Prince), American Economics Association, Chicago, Illinois, August, 1978.

"Climate as a Factor of Production," Western Economics Association, Hawaii, June, 1978.

"Land-Use Implications of Sewer Extension Policies," Conference on Alternative State and Local Policies, Austin, Texas, June, 1976.

"Econometrics of a World Climate/Food Model," (with John Ross and Juliet Mak) to American Geographical Society, Milwaukee, Wisconsin, April, 1975.



## TEACHING EXPERIENCE

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### James Madison University

Principles of Economics, Micro and Macro, Fall 1977-Spring 2007

Advanced Microeconomic Theory

Fall 2020, Fall 2018, Fall 2016, Fall 2014, Fall 2012, Spring 2010, Fall 2008, Fall 2006, Fall 2004, Spring 2002, Fall 2000, Fall 1998, Fall 1995, Fall 1993, Fall 1991, Fall 1989, Spring 1988, Fall 1985

Urban Economics

Fall 2019, Spring 2015, Spring 2013, Spring 2012, Spring 2009, Fall 2007, Spring 2004, Spring 2001, Spring 1998, Spring 1994, Fall 1992, Spring 1990, Fall 1986, Spring 1985, Spring 1982, Fall 1978, Fall 1977

Environmental Economics

Spring 2019, Spring 2018, Fall 2017, Fall 2016, Fall 2013, Spring 2012, Spring 2011, Fall 2009, Spring 2008, Spring 2007, Spring 2005, Fall 2003, Fall 2001, Spring 2000, Spring 1999, Spring 1997, Spring 1996, Spring 1993, Spring 1991, Fall 1983, Fall 1980, Fall 1979, Spring 1978

Soviet Economy, Spring 1987, Spring 1986, Spring 1980, Spring 1978

Regional Economics

Spring 2016, Spring 2014, Fall 2010, Fall 2005, Spring 2003, Fall 1999, Spring 1995, Spring 1992, Spring 1989, Spring 1984, Spring 1980, Spring 1979

Comparative Economic Systems,

Spring 2021, Spring 2020, Fall 1996, Fall 1990, Spring 1979

Intermediate Microeconomics, Spring 1987, Fall 1986, Spring 1983, Fall 1982

Natural Resource Economics, Fall 1988

International Economics, Fall 1997

From Catastrophe to Chaos, Summer 2004, Universita Politecnica di Ancona, Italy

International Finance, Spring 2006

### Scuola Superiore Sant'Anna (Pisa, Italy)

Dynamics of Complex Economics, Summer 2013

### **Universidad de San Francisco de Quito, Ecuador**

Dynamics of Economic Complexity, Summer 2011

### **Mary Baldwin College**

Urban Economics and Environmental Planning, Spring 1977

### **University of Wisconsin-Madison**

Principles of Economics

Summer 1993, Summer 1992, Summer 1991, Summer 1989, Summer 1988, Summer 1986, Summer 1985, Summer 1979

Comparative Economic Systems

Summer 1993, Summer 1992, Summer 1991, Summer 1988, Summer 1986, Summer 1985

Soviet Economy, Summer 1989

Graded for Capitalism and Socialism, 1969-1972

Taught sections for Critiques of American Capitalism, 1972, 1971

### **Università Politecnica delle Marche (Ancona, Italy)**

Graduate seminar in Economic Theory (in Italian), Summer 2004

## **A W A R D S   R E C E I V E D**

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Phi Beta Kappa, first JMU faculty member honorary member, 2018-

Best Scholarly Paper, James Madison University College of Business, 2014

Ambassador of University of Urbino, Italy, 2012-

Recipient, Outstanding Faculty Award (OFA) by State Council on Higher Education in Virginia (SCHEV), 2011.

Recipient of *estschrift* book: *Nonlinear Dynamics in Economics, Finance, and the Social Sciences: Essays in Honour of John Barkley Rosser, Jr.*, edited by Gian-Italo Bischi, Carl Chiarella, and Laura Gardini, Berlin/Heidelberg: Springer, 2010.

Finalist, Outstanding Faculty Award (OFA) by State Council on Higher Education in Virginia (SCHEV), 2010.

Fellow, Economists for Peace and Security, 2009-

Premier Who's Who for Outstanding Professionals, 2009-2010.

5<sup>th</sup> Workshop on Modelli Dinamici in Economia e Finanza held in Honor of 60<sup>th</sup> Birthday of J. Barkley Rosser, Jr., University of Urbino, Italy, September 25-27, 2008

Great Minds of the 21<sup>st</sup> Century, American Biographical Institute, 2007-2008.

Outstanding Professional Service Award, James Madison University College of Business, 2006

American Library Association Choice Outstanding Book for 2006 for *The Changing Face of Economics: Conversations with Cutting Edge Economists*

Best Pedagogical Paper, James Madison University, College of Business, 2004

Who's Who in Higher Business Education, 2005-06

Who's Who in American Education, 2004-2005

Who's Who in the World, 2004-09

Who's Who in America, 2002-03

Nominated for President, Society for Chaos Theory in Psychology and the Life Sciences, 2001, 2006, 2012

Madison Scholar, JMU College of Business, 2000

International Who's Who of Professionals

International Who's Who of Public Service, 2000-01

Strathmore's Who's Who Millennium Edition, 2000-01

2000 Important Scientists of the Twentieth Century, 1999

Holder, Kirby L. Cramer, Jr. Chair of Business Administration, 1996-

2000 Important Scientists of the Twentieth Century

Who's Who in Science and Engineering, 1998-1999.

Honorary Fellow, University of Wisconsin-Madison, Summer 1996, Summer 1997, Summer 1998, Summer 1999, Summer 2000, Summer 2001, Summer 2003, Summer 2006, Summer 2009, Summer 2010

Who's Who in the South and Southwest, 1997-98

Nominated for Board of Directors, Eastern Economic Association, 1996, 1995

JMU College of Business Outstanding Academic Article, 1995

Madison Scholar, James Madison University, 1991-1992

Who's Who in Finance and Industry, 1991

Visiting Fellow, University of Wisconsin-Madison, Summer 1995, Summer 1994, Summer 1990

Who's Who in the Southeast, 1988, 1987

J.M.U. Faculty Educational Leave, Fall 2002, Fall 1994, Fall 1987

Nominated for Fulbright Fellowship to teach in USSR, 1985

J.M.U. Summer Research Grants, 2002, 1995, 1990, 1987, 1983, 1978

NDEA Fellowship, 1969-1972, University of Wisconsin-Madison

Phi Kappa Phi, B.A. with honors, both 1969

### **Foreign Language Proficiency**

Reading and speaking knowledge of French

Speaking knowledge of Russian, Italian, and Arabic

### **M E M B E R S H I P S**

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American Economic Association

Econometric Society

Southern Economic Association

Eastern Economic Association

Society for Nonlinear Dynamics and Econometrics (charter member)

Nonlinear Socio-Spatial Dynamics Society

International Society for Ecological Economics

Society for Study of Chaos in Psychology and the Life Sciences

New York Academy of Science

System Dynamics Society

Union of Radical Political Economists

United States Society for Ecological Economics (charter member)

History of Economics Society

Society for the Development of Austrian Economics

Society for the Study of Emerging Markets

Nonlinear Economic Dynamics Society (Founder, June 2009 at Jönköping, Sweden)

Complex Systems Society

World Economics Association

Nonequilibrium Social Sciences Group (Co-founder and Advisory Board member)

### **Editorial Duties**

Coeditor, *New Revised Palgrave Dictionary*, 4th edition, 2018-

Board of Editors, *Complexity Economics*, Elsevier Publishers, 2017-

Founding Editor-in-Chief, *Review of Behavioral Economics*, 2012-

Editor, *Journal of Economic Behavior and Organization*, 2001-2010

Coeditor, *Journal of Economic Behavior and Organization*, 2011

Honorary Editor, *Journal of Economic Behavior and Organization*, 2012-

Advisory Board Editor, *Evolutionary and Institutional Economics Review*, 2015-

Advisory Board Editor, *Metroeconomica*, 2015-

Book Review Editor, *Discrete Dynamics in Nature and Society*, 1997-2007

Associate Editor, *Discrete Dynamics in Nature and Society*, 2007-2013

Associate Editor, *Journal of Economic Behavior and Organization*, 1997-2000

Associate Editor, *Nonlinear Dynamics, Psychology and Life Sciences*, 1997-

Book Review Editor, *Journal of Economic Behavior and Organization*, 1993-1997, 2000-2004

Book Review Editor, *Socio-Spatial Dynamics*, 1991-1994

Associate Editor, Journal of Post Keynesian Economics, 1999-

Board of Editors, New Windows Series, Springer, 2004-

Coeditor, Special Series, Oxford University Press, 2008-

## JOURNAL REVIEWER

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*Complexity*

*Review of Keynesian Economics*

*Social Epistemology*

*History of Political Economy*

*Eastern European Economies*

*Forest Policy and Economics*

*Macroeconomic Dynamics*

*Environmental and Resource Economics*

*Journal of Economic Surveys*

*Mathematical Social Sciences*

*Studies in the History and Philosophy of Modern Physics*

*Journal of the History of Economic Thought*

*Journal of Economic Interaction and Coordination*

*Metroeconomica*

*Journal of Law, Economics and Organization*

*IET Control Theory & Applications*

*Geografiska Annaler B*

*Economic Modelling*

*Journal of Institutional and Theoretical Economics*

*European Physical Journal B*

*Environmental and Development Economics*

*Journal of Institutional Economics*

*Journal of Economic Education*

*International Review of Applied Economics*

*Investigación Económica*

*Physica A*

*Journal of Mathematical Sociology*

*Journal of Evolutionary Economics*

*International Game Theory Review*

*Journal of Economic Dynamics and Control*

*Structural Change and Economic Dynamics*

*Journal of Geographical Systems*

*Networks and Spatial Economics*

*Journal of Economic Methodology*

*Agricultural Economics*

*Economic Journal*

*Economies in Transition*

*Review of Political Economy*

*Management Science*

*Journal of Comparative Economics*

*Computational and Mathematical Organization Theory*

*Review of Austrian Economics*

*Nonlinear Dynamics, Psychology, and Life Sciences*

*Review of Social Economy*

*Research in Political Economy*

*Scandinavian Journal of Economics*

*Eastern Economic Journal*

*Social Science Quarterly*

*Journal of Post Keynesian Economics*

*Land Economics*

*Studies in Economic Analysis*

*International Economic Review*

*Journal of Economic Behavior and Organization*

*Socio-Spatial Dynamics*

*International Review of Economics and Finance*

*Bioscience*

*Chaos, Solitons & Fractals*

*Annals of Regional Science*

*Journal of Macroeconomics*

*Geographical Analysis*

*Journal of Environmental Economics and Management*

*Ecological Economics*

*American Journal of Economics and Sociology*

## MANUSCRIPT REVIEWER

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World Scientific

John Wiley and Sons

Edward Elgar Publishing

Cambridge University Press

Prentice-Hall

McGraw-Hill



Scott Foresman

Kluwer Academic Publishers

Oxford University Press

Johns Hopkins University Press

Routledge

## **C O M M I T T E E S   A N D   S E R V I C E**

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Faculty Adviser, Madison Algorithmic Research, 2018-

Research Associate, Center for Applied Macroeconomic Analysis (CAMA), Program in Behavioral Macroeconomics and Complexity, Australian National University, 2016-

Chair, Executive Board, Society for Nonlinear Economic Dynamics, 2013-

Co-Founder, group for Non-Equilibrium Social Science (NESS), at Cully, Switzerland, November, 2010

Member, Core Advisory Group of EI/NESCent Project on Evolutionary Economics, 2010-

Founder, Society for Nonlinear Economic Dynamics, at Jönköping, Sweden, June 2009

Member, International Scientific Committee, Conference on Economic Science of Heterogeneous Interacting Agents, Beijing Normal University, June 2009

Organizer and Host of Conference on "Transdisciplinary Perspectives on Economic Complexity," James Madison University, May 2008.

Search Committee for Chairs in Management and Accounting, JMU College of Business, 2008

Scientific Advisory Board of Max Planck Institute of Economics, Jena, Germany, 2008-

International Program Committee, Data in Complex Systems conference, European Coordination Action of the General Integration of the Applications of Complexity in Science, Palermo, 2008

Candidate for President, Society for Chaos Theory in Psychology and Life Sciences, 2001, 2006, 2012

International Scientific Committee, Grid Finance, 2006, Palermo, Italy

Search Committee, Wampler-Longacre Chair of Marketing, JMU College of Business, 2005

International Scientific Committee, New Economic Windows II, Complexity Hints for Economic Policy Design, 2004, Salerno, Italy

Madison Scholar, JMU College of Business, 2000 (co-recipient with Marina V. Rosser)

International Scientific Committee, Conference on Economic Complexity, 2002, 2006, Aix-en-Provence

Program Committee, International Conference on Discrete Chaotic Dynamics in Nature and Society, May 2000

Chair, Wheat Finance Chair Search Committee, JMU COB, Spring 2000

Chair, External Review Committee, JMU chemistry Department Assessment, Spring 2000

AACSB Committee on Intellectual Contributions, 1999-2001

MBA Policy Committee, 1998

JMU General Education Committee on Social Sciences, Cluster 4, (1996-97, 2000-2001)

College of Business Curriculum and Instruction Committee (1996-97)

Presidential Nominating Committee, Eastern Economic Association (1996)

Program Committee, Southern Economic Association (1995, 2005)

Program Committee, Eastern Economic Association (1994, 1997, 1998, 2001)

Outstanding Economics Student Paper Committee, Chair (1989-90), member (1992-93)

Economics Department Head Search Committee (1989-90)

Chairman Department Tenure PAC (Fall 1989, Fall 1988)

Founding Economics Club Adviser (1987)

College of Business Building Committee (1986-87)

MBA Task Force (1986-87)

Undergraduate Commission (1985-86)

Senate Curriculum and Instruction Committee (1985-87)

J.M.U. Faculty Senate (1985-87)

Omicron Delta Epsilon (Economics Honor Society) Adviser (1983-87)

Ad Hoc Grant Evaluation Committee, School of Business (Fall, 1983)

Chairman Departmental Recruiting Committee (1992-93, 1983-84)

Chairman Departmental Curriculum and Instruction (1982-83, 1988-89, 1993-94, 1996-97)

Business--Anthropology Committee (1980)

Chairman SACS Admissions Subcommittee (1980)

Business School AACSB Committee (1980, 1989-90)

Departmental Recruiting Committee (1978-84, 1988-89, 2004-05)

Urban and Regional Studies Committee (1977- )

Russian and Asian Studies Committee (1977-2001)

Departmental Curriculum and Instruction (1977-78, 1986-87, 1988-89, 1991-)

Faculty Evaluation (Fall, 1977)

Coordinator, Economics Department Faculty Seminar Coordinator, (1990- )

College of Business Committee on Promotion and Tenure Standards, (1991-92)

Madison Scholar Selection Committee (1992-93)

Faculty Adviser, JMU Amnesty International, (1988-2005 )

Environmental Studies Minor Committee (1990- )

University Summer Research Grant Committee (1993-94)

Economics Department Seminar Coordinator (1991- )

College of Business Committee for Best Research Award (1993-94, 1995-96)

JMU Applied Mathematics Committee (1995-2000)

Numerous talks to local groups and media at the local, state, national, and international levels on a variety of economic topics

## **A D M I N I S T R A T I V E**

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Assistant to Faculty Member in Residence, JMU Semester Abroad in Paris, Autumn 1994, Autumn 2002

Faculty Member in Residence, JMU Semester Abroad in Paris, Autumn 1990, Autumn 1997

Assistant to Faculty Member in Residence, JMU Semester Abroad in Florence, Autumn, 2011

## PUBLIC COMMUNICATION

---

Regular Co-Blogger, *Maxspeak, You Listen!* 2005-2007

ranked as 12<sup>th</sup> most read economics blog out of 140 as of August, 2007 by Economics Blog Directory & Ranking, [http://www.26econ.com/page\\_id=26](http://www.26econ.com/page_id=26)

Regular Co-Blogger, *Econospeak*, 2007-

ranked #36 for daily visits out of 138 business and economics blogs according to Gongol Traffic Rankings for Business and Economics Websites, <http://www.gongol.com/lists/bizeconsites> , May 2013

Regular Co-Blogger, *Angry Bear*, 2017-.

## CONSULTING

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### Government

National Science Foundation, 2001

Commonwealth of Virginia Legislature, 1977

U.S. Forest Service, 1980

State of Wisconsin Investment Board, 1991

### Private

Saudi Computer and Information Center, 1981

Bios Group, Inc., 2000

### Expert Witness in Virginia

#### **Department of Motor Vehicles Market Area Cases**

Richmond, Virginia; Attorney – Mark Wishner of Washington, D.C.; 1986

Charlottesville, Virginia; Attorney – Philip Santos of Staunton, Virginia; 1978

Staunton, Virginia; Attorney – Thomas Wood of Staunton, Virginia; 1977

**Estimating Income for Divorce Case**

Winchester, Virginia; Attorney – Philip Stone of Harrisonburg, Virginia; 1984

**Estimating Present Value of Income Due to Wrongful Death Case**

Harrisonburg, Virginia: Attorney – James N. Dickson, III of Harrisonburg, Virginia; 1991

Bridgewater, Virginia; Grant A. Richardson of Bridgewater, Virginia; 1990

Harrisonburg, Virginia; Attorney – Henry Clark of Harrisonburg, Virginia; 1987

Estimating Present Value of Lost Income Due to Wrongful Injury

Fairfax, Virginia; Attorney – John McGrath of Luray, Virginia; 1992

Harrisonburg, Virginia; Attorney – Roger Ritchie of Harrisonburg, Virginia; 1987

**Estimating Present Value of Future Lost Wages Due to Injury**

Luray, Virginia; Attorney – George Warren Shanks of Luray, Virginia, 1991

Luray, Virginia; Attorney – George Warren Shanks of Luray, Virginia, 1989

**Estimating Present Value of Future Lost Wages Due to Employment Discrimination**

Harrisonburg, Virginia; Attorney – Timothy Cupp, 1995

Harrisonburg, Virginia; Attorney – Timothy Cupp, 1996