

## Vitae

Michael Joseph Radzicki

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### Business Address

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### Appointments

2004–Present	Research Associate – Center for Full Employment and Price Stability University of Missouri – Kansas City
1994–Present	Associate Professor of Economics with Tenure Worcester Polytechnic Institute
1990–1994	Assistant Professor of Economics Worcester Polytechnic Institute
1987–1990	Faculty Fellow – Institute for International Peace Studies University of Notre Dame du Lac
1985–1990	Assistant Professor of Management and Administrative Sciences University of Notre Dame du Lac
1983–1985	Instructor – Department of Management and Administrative Sciences University of Notre Dame du Lac
1983 (Summer)	Instructor – Department of Economics Indiana University at South Bend

### Education

1982–1985	Ph.D. University of Notre Dame du Lac Area -- Economics Major Field – Public Policy
1980–1982	M.A. University of Notre Dame du Lac – Economics
1976–1979	B.A. St. Norbert College – Economics

### Honors

- William O. Douglas Award for Best Paper in the Pacific Northwest Legal Studies in Business Association Conference – 1991
- Best paper award – 1989 meeting of the Midwest Business Administration Association
- Omicron Delta Epsilon (Economics Honor Society)
- Received B.A. Magna Cum Laude (Completed degree in 3.5 years)
- Who's Who Among America's Teachers
- Who's Who Among Students in American Universities and Colleges
- Who's Who in America
- Who's Who in American Education
- Who's Who in Finance and Business
- Who's Who in Science and Engineering
- Who's Who in Technology Today
- Who's Who in the East
- Who's Who in the World

## **Professional Memberships**

- American Economic Association
- Association for Evolutionary Economics
- Association for Institutionalist Thought
- System Dynamics Society (Founding Member)

## **Teaching and Research Interests**

- Agent-Based Computer Simulation Modeling
- Development Economics
- Econometrics
- Economic Methodology
- Evolutionary Economics
- History of Economic Thought
- Institutional Economics
- International Economics
- Macroeconomics
- Money, Credit & Banking
- Post Keynesian Economics
- Stocks, Futures & Options Trading
- System Dynamics Computer Simulation Modeling

## **Teaching Experience**

### **Undergraduate**

- Advanced System Dynamics Modeling
- Computers in Business
- Development Economics
- Heterodox Economics
- Intermediate Macroeconomics
- International Economics
- Introduction to Agent-Based Modeling
- Introduction to System Dynamics Modeling
- Introduction to Econometrics
- Introduction to Trading System Development
- Money, Credit & Banking
- Principles of Macroeconomics
- Principles of Microeconomics
- Statistics
- System Dynamics Modeling

### **Graduate**

- Dynamic Modeling of Managerial & Economic Systems
- Introduction to Agent-Based Modeling
- Macroeconomic Dynamics
- Mathematics in Business
- Statistical Methods in Management

## **Papers Published in Refereed Journals**

- Michael J. Radzicki and Linwood Tauheed. 2009. "In Defense of System Dynamics: A Reply to Professor Hayden." Journal of Economic Issues 43(4): Forthcoming.

- Mark Nichols, Oleg Pavlov, and Michael J. Radzicki. 2006. "The Circular and Cumulative Structure of Administered Pricing." Journal of Economic Issues. 40(2): 517-526.
- Oleg Pavlov, Michael J. Radzicki and Khalid Saeed. 2005. "Stability in a Superpower-Dominated Global Economic System." Journal of Economics Issues 39(2): 491-500.
- Michael J. Radzicki. 2003. "Mr. Hamilton, Mr. Forrester and a Foundation for Evolutionary Economics." Journal of Economic Issues. 37(1): 133-173.
- Khalid Saeed and Michael J. Radzicki. 1998. "Forward." System Dynamics Review 14(2 and 3): 105-106.
- James K. Doyle, Michael J. Radzicki, Andrew Rose and W. Scott Trees. 1997. "Using Cognitive Styles Typology to Explain Individual Differences in Dynamic Decision Making: Much Ado About Nothing." Center for Quality of Management Journal 6(3): 5-15.
- Michael J. Radzicki and Donald A. Seville. 1993. "An Institutional Dynamics Model of Sterling, Massachusetts: Indicative Planning at the Local Level." Journal of Economic Issues 27(2): 481-492. 1993.
- James B. Zimarowski, Michael J. Radzicki and William A. Wines. 1993. "An Institutionalist Perspective on Law and Economics (Chicago Style) in the Context of United States Labor Law." Arizona Law Review 35(2): 397-443.
- Michael J. Radzicki. 1993. "Dyadic Processes, Tempestuous Relationships, and System Dynamics." System Dynamics Review 9(1): 79-94.
- Michael J. Radzicki. 1992. "Reflections on: 'On the Very Idea of a System Dynamics Model of Kuhnian Science.'" System Dynamics Review 8(1): 49-53.
- Michael J. Radzicki. 1990. "Methodologia Oeconomiae et Systematis Dynamis." System Dynamics Review 6(2): 123-147. 1990.
- Michael J. Radzicki. 1990. "Institutional Dynamics, Deterministic Chaos, and Self-Organizing Systems." Journal of Economic Issues 24(1): 57-102.
- Michael J. Radzicki. 1989. "Reference Modes and the Optimal Shape Parameter." System Dynamics Review 5(2): 192-198.
- Michael J. Radzicki. 1988. "A Note on Kelsey's 'The Economics of Chaos or the Chaos of Economics.'" Oxford Economic Papers 40(4): 692-693.
- Michael J. Radzicki. 1988. "Institutional Dynamics: An Extension of the Institutionalist Approach to Socioeconomic Analysis." Journal of Economic Issues 22(3): 633-666.
- Lawrence C. Marsh and Michael J. Radzicki. 1986. "Minimum Mean Square Error of a Generalized Stein Estimator." Economics Letters 21(4): 333-335.

#### **Book Reviews Published in Refereed Journals**

- Michael J. Radzicki. 2009. "Review of Frontiers in Ecological Economic Theory and Application." Eastern Economic Journal. 35: 555-560.
- Michael J. Radzicki. 1989. "A Review of Chaos: Making A New Science." System Dynamics Review 5(1): 90-91.

## Invited Chapters in Books

- Michael J. Radzicki. 2010. "Was Alfred Eichner a System Dynamicist?" Money and Macroeconomic Issues: Alfred Eichner and Post-Keynesian Economics. Marc Lavoie, Louis-Philippe Rochon and Mario Seccareccia, eds. Chapter 1. Armonk, NY: M. E. Sharpe.
- Michael J. Radzicki. 2009. "Convergence of the Social Fabric Matrix and Complex Modelling." Institutional Analysis and Praxis: The Social Fabric Matrix Approach. Tara Natarajan, Wolfram Elsner, and Scott T. Fullwiler, eds. Chapter 5. Pages 69-85. Berlin: Springer-Verlag.
- Michael J. Radzicki. 2009. "System Dynamics and its Contribution to Economics/Economic Modeling." Encyclopedia of Complexity and Systems Science. Robert A. Meyers, ed. Berlin: Springer-Verlag.
- Michael J. Radzicki. 2008. "Institutional Economics, Post Keynesian Economics, and System Dynamics: Three Strands of a Heterodox Economics Braid." The Future of Heterodox Economics. John T. Harvey and Robert F. Garnett, Jr., eds. Chapter 9. Pages 156-184. Ann Arbor, MI: University of Michigan Press.
- James K. Doyle, Michael J. Radzicki and W. Scott Trees. 2008. "Measuring Change in Mental Models of Complex Systems." Complex Decision Making: Theory and Practice. Hassan Qudrat-Ullah, J. Michael Spector, and Paal I. Davidsen, eds. Chapter 14. Pages 269-294. Berlin: Springer-Verlag.
- James K. Doyle, David N. Ford, Michael J. Radzicki and W. Scott Trees. 2001. "Mental Models of Dynamic Systems." UNESCO Encyclopedia of Life Support Systems. UK: EOLSS Publishers.
- Michael J. Radzicki and John D. Sterman. 1994. "Evolutionary Economics and System Dynamics." Evolutionary Concepts in Contemporary Economics. Richard W. England, ed. Pages 61-89. Ann Arbor, MI: University of Michigan Press.
- Michael J. Radzicki. 1994. "Chaos Theory and Economics." Institutional and Evolutionary Economics. Geoff Hodgson, Warren J. Samuels, and Marc R. Tool, eds. Pages 42-50. Brookfield, VT: Edward Elgar Publishing Limited.
- Michael J. Radzicki. 1989. "Incorporating Christian Values Into Business Simulations: An Institutional Dynamics Approach." Christian Business Values in an Intercultural Environment. Norlin Rueschhoff and Konrad Schaum, eds. Pages 157-172. Berlin: Duncker and Humbolt.

## Papers Published in Conference Proceedings

- Oleg Pavlov, Michael J. Radzicki and Khalid Saeed. 2005. "Stability in a Superpower-Dominated Global Economic System." Proceedings of the Twenty-Third International System Dynamics Conference, July 19-2005. Boston, MA.
- Michael J. Radzicki. 2004. "Expectation Formation and Parameter Estimation in Uncertain Dynamical Systems: The System Dynamics Approach to Post Keynesian-Institutional Economics." Proceedings of the Eighth International Post Keynesian Conference, June 26-29, 2004, University of Missouri – Kansas City and Proceedings of the Twenty-Second International System Dynamics Conference, July 28, 2004, Keble College, University of Oxford, Oxford, UK.
- Barbara Karanian and Michael J. Radzicki. 2002. "Why Every Engineering Student Should Study System Dynamics." Proceedings of the 32<sup>nd</sup> A.S.E.E./I.E.E.E. Frontiers in Education Conference. November 6-9, 2002. Boston, Massachusetts. CD Proceedings Paper #1207.
- Sheldon Friedman and Michael J. Radzicki. 2000. "Escalation in an HMO: The Case of Oxford Health Plans." Sustainability in the Third Millennium. Proceedings of the Eighteenth International Conference of the System Dynamics Society. August 6-10, 2000. Bergen, Norway.
- Michael J. Radzicki. 1997. "Building Consensus Through Computer Simulation: Applying System Dynamics

Modeling to the Backflow Prevention Problem.” Proceedings of the 1997 Fire and Water Conference. Frederick L. Hart, ed. pp. 30-53. August 7-8, 1997. Worcester Polytechnic Institute. Worcester, Massachusetts.

- Deborah L. Andersen, Michael J. Radzicki, Roberta L. Spencer, and W. Scott Trees. 1997. “The Dynamics of the Field of System Dynamics.” Proceedings of the 1997 International Conference of the System Dynamics Society. Yaman Barlas, Vedat G. Diker, and Seçkin Polat, eds., pp. 811-814. August 19-22, 1997. Istanbul, Turkey.
- James K. Doyle, Michael J. Radzicki and W. Scott Trees. 1996. “Using Cognitive Styles Typology to Explain Differences in Dynamic Decision Making in a Computer Simulation Game Environment.” Proceedings of the 1996 International Conference of the System Dynamics Society. George P. Richardson and John D. Sterman, eds., pp. 557-560. July 22-25, 1996. Cambridge, Massachusetts.
- James K. Doyle, Michael J. Radzicki and W. Scott Trees. 1996. “Measuring the Effect of Systems Thinking Interventions on Mental Models.” Proceedings of the 1996 International Conference of the System Dynamics Society. George P. Richardson and John D. Sterman, eds., pp. 129-132. July 22-25, 1996. Cambridge, Massachusetts.
- Yehia H. Khalil and Michael J. Radzicki. 1996. “The Dynamics of the Zero Emission Vehicle Industry.” Proceedings of the 1996 International Conference of the System Dynamics Society. George P. Richardson and John D. Sterman, eds., pp. 268-271. July 22-25, 1996. Cambridge, Massachusetts.
- Michael J. Radzicki. 1995. “A System Dynamics Approach to Sustainable Cities.” Proceedings of the 1995 International Conference of the System Dynamics Society. Toshiro Shimada and Khalid Saeed, eds., pp. 191-210. July 30-August 4, 1995. Gakushuin University. Tokyo, Japan.
- James K. Doyle, Susan L. Ganter and Michael J. Radzicki. 1995. “Assessing System Dynamics Curricula: Past, Present, and Future.” Proceedings of the 1995 International Conference of the System Dynamics Society. Toshiro Shimada and Khalid Saeed, eds., pp. 484-493. July 30-August 4, 1995. Gakushuin University. Tokyo, Japan.
- Khalid Saeed and Michael J. Radzicki. 1993. “A Post Keynesian Model of Macroeconomic Growth, Instability, and Income Distribution.” The Role of Strategic Modelling in International Competitiveness: Proceedings of the 1993 International Conference of the System Dynamics Society. Enrique Zepeda and José A. D. Machuca, eds., pp. 435-443. July 19-25. Cancún, Mexico.
- Michael J. Radzicki. 1992. “MicroWorlds and Evolutionary Economics.” Proceedings of the 1992 International Conference of the System Dynamics Society. Jac A. M. Vennix, Jan Faber, Wim J. Scheper, and Cees A. Th. Takkenberg, eds., pp. 533-542. July 14-17, 1992. Utrecht University. Utrecht, The Netherlands.
- Michael J. Radzicki and W. Scott Trees. 1992. “An Institutional Dynamics Approach to the Study of Peace and World Order.” Proceedings of the 1992 International Conference of the System Dynamics Society. Jac A. M. Vennix, Jan Faber, Wim J. Scheper, and Cees A. Th. Takkenberg, eds., pp. 543-552. July 14-17, 1992. Utrecht University. Utrecht, The Netherlands.
- Michael J. Radzicki 1991. “Dyadic Processes, Tempestuous Relationships, and System Dynamics.” System Dynamics '91: Proceedings of the 1991 International Conference of the System Dynamics Society. Khalid Saeed, David Andersen, and José A. D. Machuca, eds., pp. 474-483. August 27-30, 1991. Asian Institute of Technology. Bangkok, Thailand.
- Michael G. Bowen and Michael J. Radzicki. 1991. “A Return to the Dynamics of Escalation and Withdrawal Behavior.” System Dynamics '91: Proceedings of the 1991 International Conference of the System Dynamics Society. Khalid Saeed, David Andersen, and José A. D. Machuca, eds., pp. 55-64. August 27-30, 1991. Asian Institute of Technology. Bangkok, Thailand.
- Michael G. Bowen, Hector H. Guerrero, Robert G. Kuller and Michael J. Radzicki. 1988. “The Dynamics of the

Escalation Phenomenon." Proceedings of the 1988 International Conference of the System Dynamics Society. Jack B. Homer and Andrew Ford, eds., pp. 298-310. July 5-8, 1988. University of California, San Diego.

- Michael J. Radzicki. 1986. "On Extending the Institutional Paradigm: The Appropriate Place for System Dynamics within the Economics Profession." Proceedings of the 1986 International Conference of the System Dynamics Society. Javier Aracil, José A. D. Machuca, and Michael Karsky, eds., Volume 1. pp. 465-500. October 22-24, 1986. University of Sevilla, Spain.
- Wayne LaBine, Lawrence C. Marsh, Michael J. Radzicki. 1986. "Simulating Boom Town Conditions on a Chippewa Indian Reservation." Proceedings of the 17th Annual Pittsburgh Modeling and Simulation Conference. Robert Hanham, William G. Vogt, and Marlin H. Mickle, eds., Volume 17, Part 1. pp. 399-404. Research Triangle Park, NC: Instrument Society of America. April 24-25, 1986. University of Pittsburgh.
- Janel E. Blount and Michael J. Radzicki. 1986. "An Application of Generic System Dynamics Structure to the Atlantic City Casino Problem." Proceedings of the 17th Annual Pittsburgh Modeling and Simulation Conference. Robert Hanham, William G. Vogt, and Marlin H. Mickle, eds., Volume 17, Part 1. pp. 393-397. Research Triangle Park, NC: Instrument Society of America. April 24-25, 1986. University of Pittsburgh.
- Michael J. Radzicki. 1985. "HOOSIER1: A Regional Policy Model for the State of Indiana." Proceedings of the 16th Annual Pittsburgh Modeling and Simulation Conference. Robert Hanham, William G. Vogt, and Marlin H. Mickle, eds., Volume 16, Part 5. pp. 1701-1706. Research Triangle Park, NC: Instrument Society of America. April 25-26, 1985. University of Pittsburgh.

#### **In Preparation**

- "An Agent-Based Model of Behavior in "Beauty Contest" Games. With Mark W. Nichols. Will be submitted to the Economic Journal.
- "Token Land: A Parable for the U.S. Social Security System." Will be submitted to the Journal of Post Keynesian Economics.
- "Behavioral Expectation Formation and the Knife Edge: Another Look at Harrod." Will be submitted to the Journal of Economic Behavior and Organization.

#### **Grants Received**

- Universidad del Norte, Columbia. \$12,000 to modify my "core" macroeconomic dynamics model for the Columbian economy. With Jairo Parada of the Universidad del Norte. 2008.
- Apple Computer. One Macintosh Ilci computer for developing a simulation and gaming approach to macroeconomics. \$10,547. February 1991.
- Apple Computer. Seven Macintosh computers and one Laserwriter NX for a simulation and gaming laboratory, in the Department of Social Science & Policy Studies at WPI. \$15,497. One-year loan. December 1990.
- Apple Computer. One Macintosh II-X computer for research by the Notre Dame Nonlinear Dynamics Group on Managerial Flight Simulation. \$7,206. February 1989.
- Apple Computer. Seven Macintosh computers, four Imagewriter II printers, two Hard Disk 20s, and assorted cabling for developing the area of "Institutional Dynamics." \$12,986. August 1986.
- Apple Computer. Fifteen Macintosh computers to set up Notre Dame Nonlinear Dynamics Group lab. \$30,900. January 1986.

## Invited Lectures

- "The System Dynamics Approach to Economic Modeling." Invited Lecture. American Institute for Economic Research. Great Barrington, Massachusetts. June 23, 2008.
- "The System Dynamics Approach to Economic Modeling." Invited Lecture. American Institute for Economic Research. Great Barrington, Massachusetts. June 22, 2007.
- "Introduction to Financial Engineering." Invited Lecture. Limited Investors. The Worcester Club. April 22, 2007.
- "A Post Keynesian-Institutionalist-System Dynamics Macroeconomic Core Model." First International Business Dynamics Congress of the Brazilian Chapter of the System Dynamics Society. Brasilia, Brazil. October 20, 2006.
- "Trading & Investing in Stocks & Options." Invited Presentation. New York Stock Exchange. New York, NY. August 4, 2006.
- Presidential Address to the 24<sup>th</sup> International Conference of the System Dynamics Society. July 25, 2006. Raboud University. Nijmegen, The Netherlands.
- "A Post Keynesian-Institutionalist-System Dynamics Macroeconomic Model." Invited Lecture. The Levy Economics Institute of Bard College. Annandale-on-Hudson, NY. January 25, 2006.
- "Teaching Stocks and Options Trading." Invited Presentation. New York Stock Exchange. New York, NY. August 3, 2005.
- "Expectation Formation and Parameter Estimation in Uncertain Dynamical Systems: The System Dynamics Approach to Post Keynesian-Institutional Economics." Ph.D. Seminar. University of Missouri - Kansas City. May 9, 2005.
- "Political and Economic Solutions for Non-Coercively Eliminating Terrorism in Developing Nations." Invited Presentation to the Advanced Research and Development Activity (ARDA) Executive Committee as Finalist for a Workshop Grant. The MITRE Corporation. McLean, VA. April 20, 2005.
- "Macroeconomic Dynamics." Invited lectures in the "Masters Program in Managing Business Growth through System Dynamics and Accounting Models: A Strategic Control Perspective. University of Palermo, Palermo, Italy. March 8-10, 2004.
- "The Place for Economics within the Economics Profession." Invited plenary session address before the 2003 International Conference of the System Dynamics Society. New York City. July 20-24.
- "Heterodox Economics and System Dynamics." Invited address before the Computed, Heterodox and Untapped: Economic Dynamics in New York City Conference. July 18, 2003. Fordham University.
- "Economics and System Dynamics." Invited Lecture. Alfred P. Sloan School of Management. Massachusetts Institute of Technology. 16 January 2002. Cambridge, Massachusetts.
- "A Systems Framework for Thinking About Macroeconomic Issues." Invited lecture before the Central Massachusetts Financial Executives Organization. 11 September 2001. Worcester, Massachusetts.
- "System Dynamics 2." Invited two-day workshop in system dynamics for the faculty and administration of the University of Maine at Farmington. 26-27 June 2001. Farmington, Maine.
- "System Dynamics 1." Invited one-day workshop in system dynamics for the faculty and administration of the University of Maine at Farmington. 8 January 2001. Farmington, Maine.

- "Overwhelming a Digital Carrying Capacity: The Case of Oxford Health Plans." System Dynamics Winter Camp 2000. University of Texas. Austin, Texas. 6 January 2000.
- "How to Make Use of System Dynamics for your Needs: The Management Flight Simulator Approach." Society for Research into Higher Education Conference on Using System Dynamics as a Tool for Decision Making in Higher Education Management. 25 July 1999. The Royal Society. London, UK.
- "The Place for System Dynamics within the Economics Profession." Rockefeller School of Public Affairs. State University of New York at Albany. 22 April 1999.
- "A New Approach to Teaching Macroeconomics: Macro Behavior from Micro Structure." Alfred P. Sloan School of Management. Massachusetts Institute of Technology. 18 November 1998.
- "Interrelationships Between Patient Satisfaction, Clinical Outcomes, and Financial Performance in a Health Maintenance Organization." Connecticut Hospital Association. 13 January 1998.
- "Simulating the Implementation and Management of the Superpave Project." United States Department of Transportation. Washington, D.C. 25 November 1997.
- "Some Thoughts on a K-12 System Dynamics Economics Curriculum." Alfred P. Sloan School of Management. Massachusetts Institute of Technology. 24 September 1997.
- "The Potential of System Dynamics Modeling in Manufacturing." Automation and Information Planners. Worcester, Massachusetts. 11 February 1997.
- "Simulating Patient Satisfaction in the Health Care Industry." 7th Annual Client Conference. Press, Ganey Associates. Washington, D.C. 11 November 1996.
- "System Dynamics." Office of Science and Technology Policy. The White House. Washington, D.C. 15 August 1996.
- "The Dynamics of the Zero Emission Vehicle Industry." United States Department of Energy. Washington, D.C. 15 August 1996.
- "Pricing Policies in the Norwegian Telecommunications Industry: A System Dynamics Approach." Telenor Corporation. Arendal, Norway. 30 October 1995.
- "System Dynamics Modeling for Strategy Support in the Telecommunications Industry." Agder College. Grimstad, Norway. 25 October 1995.
- "The Dynamics of Sustainable Cities." Testimony before the Truckee Meadows Regional Planning Agency. Reno, Nevada. 17 October 1995.
- "Macroeconomic Cycles." Department of Economics. Arizona State University. Tempe, Arizona. 13 October 1995.
- "On Modeling." Testimony before the Truckee Meadows Regional Planning Agency. Reno, Nevada. 24 May 1995.
- "Evolutionary Economics and System Dynamics." Department of Economics. University of Nevada – Reno. Reno, Nevada. 24 May 1995.
- "Managerial Applications of System Dynamics." Power of Systems Thinking Conference. Boston, Massachusetts. 17 May 1995.
- "Common Foundations Between Engineering and Economics." Department of Mechanical Engineering and

Department of Economics. Arizona State University. 8 March 1995.

- "System Dynamics in Management Education." École des Hautes Études Commerciales. l'Université de Montréal. 24 February 1995.
- "A System Dynamics Approach to Macroeconomics." Department of Economics. Karlstad University. Karlstad, Sweden. 10 March 1993.
- "Evolutionary Economics and System Dynamics." Department of Economics. Karlstad University. Karlstad, Sweden. 10 March 1993.
- "A System Dynamics Approach to Macroeconomics." Department of Economics. University of Bergen. Bergen, Norway. 8 March 1993.
- "Evolutionary Economics and System Dynamics." Department of Economics. University of Bergen. Bergen, Norway. 8 March 1993.
- "Evolutionary Economics and System Dynamics." Department of Economics. University of New Hampshire. 5 March 1993.
- "Evolutionary Economics and System Dynamics." Alfred P. Sloan School of Management. Massachusetts Institute of Technology. 10 February 1993.
- "A System Dynamics Approach to Macroeconomics." Department of Economics. Bates College, Lewistown, Maine. 10 June 1992.
- "Escalation and Chaos." Carnegie-Mellon University. 5 March 1990.
- "The Quadratic Risk Lower Bound of the Generalized Family of Conditionally Linear Regression Estimators." Department of Economics. University of Chicago. 24 May 1989.
- "The Dynamics of Escalating Commitment." Department of Management. Michigan State University. 14 November 1988.
- "Dynamic Economic Modeling and Deterministic Chaos." Graduate School of Business. University of Chicago. 11 March 1988.
- "On Using System Dynamics to Integrate Peace Studies at a University." Invited plenary session address before the EDUCOM Spring Seminar on "Integrating Computing Into the Higher Education Curriculum." Northwestern University. 13 May 1986.

### **Professional Activities**

- Past President, System Dynamics Society, 2007
- President, System Dynamics Society, 2006 [[http://en.wikipedia.org/wiki/Worcester\\_Polytechnic\\_Institute](http://en.wikipedia.org/wiki/Worcester_Polytechnic_Institute)]
- President-Elect, System Dynamics Society, 2005
- Secretary, System Dynamics Society, 1995–2000
- Vice President -- Meetings, System Dynamics Society, 1992–1994
- President & Founder, Economics Chapter of the System Dynamics Society, 2004
- Member of the Policy Council of the System Dynamics Society, 1987–1990

- Member of the Advisory Council of The Systems Thinker, 1998–present
- Member of the Editorial Board of the System Dynamics Review, 1988–present
- Member of the Editorial Board of the International Journal of Transdisciplinary Research, 2004 - Present
- Member of the Editorial Board of the Journal of Economic Issues, 1991–1993; 2005–2007
- Invited Faculty Member – Ninth International Post Keynesian Summer School, University of Missouri – Kansas City, June 18–24, 2006
- Invited Faculty Member – Eighth International Post Keynesian Summer School, University of Missouri – Kansas City, June 19–24, 2004
- Conference Chairman: 2003 International Conference of the System Dynamics Society, July 20-24, New York City
- Created web-based, distance learning, system dynamics tutorial for the United States Department of Energy: <http://www.systemdynamics.org/DL-IntroSysDyn/index.html>
- Contributed an essay titled “The Early Years: A Voluntary Effort.” to the System Dynamics Society’s “oral history” project. See [http://www.systemdynamics.org/history/the\\_early\\_years\\_voluntary\\_effort.pdf](http://www.systemdynamics.org/history/the_early_years_voluntary_effort.pdf) and Andersen, David, John D. W. Morecroft and Roberta L. Spencer. 2007. “How the System Dynamics Society Came to Be: A Collective Memoir.” System Dynamics Review. 23 (2 & 3): 219-227.
- Guest Scholar in the Center for Modeling, Nonlinear Dynamics, and Irreversible Thermodynamics. Technical University of Denmark. Lyngby, Denmark. July 15-20, 1989
- Helped introduce system dynamics into the Japanese high school system, Tokyo, Japan, July 1995

#### **Service to Worcester Polytechnic Institute**

- Creator of WPI’s program in “System Dynamics”
- Co-Creator of WPI’s Bachelor of Science Degree in “Economic Science”
- Graduate Coordinator – Department of Social Science & Policy Studies
- Faculty advisor to WPI’s **Society of Martial Artists (SOMA)** – (1997–2007)
- Faculty advisor to the WPI’s Investment Club

#### **Ph.D. Dissertation Committee Member**

- Ken Parsons, Worcester Polytechnic Institute – Dissertation Director (in progress)
- David Rose, Worcester Polytechnic Institute – Committee Member (in progress)
- Jerry Trombella, Seton Hall University – Committee Member (in progress)
- Sheldon Friedman, Worcester Polytechnic Institute – Dissertation Director (2003)
- Jeannet Jaantje van der Lee, University of New England, New South Wales, Australia – External Examiner (2003)
- Xu Honggang, Asian Institute of Technology – External Examiner (1999)

- Phares P. Parayno, University of Pennsylvania – External Examiner (1996)
- Pontheprankrakma, Asian Institute of Technology – External Examiner (1994)
- Jurgen Brauer, University of Notre Dame – Committee Member (1987)

### **Major Qualifying Projects Directed**

- Technical Analysis of CANSLIM Stocks – Belin Beyoglu and Martin Ivanov [First Place – 2008 Department MQP Competition]
- Sterling Town Model – Katrina Hull [Honorable Mention – 2008 Department MQP Competition]
- Using Neural Nets to Predict Initial Public Offerings: The Green Shoe Option – Diana Damyanova and Esra Unluaslan
- Speculative Demand in Commodities Markets – John Costello
- The Continued Viability of NATO – Justin Braveboy Wagner
- Wachusett Simulation Model – Alexander Lubyansky
- Urban Policy Design for a Developing Country: A System Dynamics Approach to Modeling Quality of Life and Attractiveness in Developing Cities – Julie Cerquiera, Kelly Jaramillo, and Sarah Scharff
- Sustainable Diversification in the Gwydir Valley – Sarah Scharff
- Business Dynamics: Modeling a Local Lawn Doctor – Alicia D'Eramo
- A System Dynamics Approach to the Medicare Crisis – Nilufer E. Saltuk [First Place – 1998 Department MQP Competition]
- Electric Utility Deregulation and Its Effect on Rates – Leslie Valentine
- The Dynamics of Deregulation in the Massachusetts Electric Power Industry – Colin Brown
- Electric Utility Policy Simulation Model – James P. Naughton
- A System Dynamics Model of the Escalation Phenomenon – John David Corbeil and James P. Naughton
- Strategic Planning at Gould-Kreutzer Associates, Inc.: A System Dynamics Approach – Daniel E. Angelakis [First Place – 1995 Department MQP Competition]
- A System Dynamics Management Flight Simulator – Jennifer Cover
- Kinetic Modeling of Starch Liquefaction via System Dynamics – Mohd Nor Sofian
- Policy Design in Sterling, MA: A System Dynamics Simulation Approach – Donald A. Seville

### **Interactive Qualifying Projects Directed**

- Simulating Policies to Improve Emergency Room Efficiency – Timothy Yee
- Using Neural Nets to Predict Stock Prices – Venera Varbanova
- The Paradox of Attraction in Sterling, Massachusetts – Crystal Chalapatras and William Smith

- A System Dynamics Model of Minsky Crises – John Costello
- Sustainable Tourism in the Caribbean – Justin Braveboy Wagner
- Modernizing the Fishbanks Game – Jason Sardell
- A Marketing Sector for a System Dynamics Model of a Computer Board Manufacturer – Ali Serefli
- Harvesting the Brazilian Rainforest: A System Dynamics Approach – Ian DeBarros
- Sustainable Kingston: Water Quality, Waste Management and Health Care – Stacy A. Lewis, Tamara A. Samuels, and Andrea I. Scully
- A System Dynamics Outsourcing Model – Matthew Goslin
- A World Without Frontiers: A System Dynamics Model of a Hypothetical Urban System for Use in an Educational Game - Bradd Libby and Mary Berry [3rd Place – 1997 President's IQP Award Competition]
- A System Dynamics Analysis of the Fishing Crisis – Patricia F. Medeiros
- Dairy Farm Dynamics: A System Dynamics Approach – Lee Z. Evans
- Sustainable Development: A System Dynamics Approach – Gregory T. Rule and Shant Sarkees
- A System Dynamics Study of Project Management: The Case of a World's Fair – Gregory M. Marr
- A System Dynamics Study of the Strategic Issues Facing Engineering Schools – Keith Checca
- Nobel Prize Winners, 1993 – Brian D. Chouinard
- An Analysis of the Impact of Foreign Technology on the Brazilian Economy – Maiko A. Paula and Alejandro Fubini
- A System Dynamics Study of Kiama, NSW, Australia – Frank J. Parker, Corey D. Jenks, and Peter S. Poitras
- The Dynamics of the Emergence and Diffusion of Silicone Gel Breast Implants – Michael K. Ganley
- Theories Behind System Dynamics Based on a Model of Sterling, Massachusetts – David J. Fall
- System Dynamics, the Long Wave and the Great Depression – Sanjay Raja and Craig D. Thompson

#### **Institute Committees**

- Ad Hoc Tenure Committee
- Campus Hearing Board
- Committee on Academic Operations
- Faculty Review Committee
- Greek Review Board
- Institutional Animal Care & Use Committee
- SS & PS Chairman Search Committee

## Personal

- Born 18 August 1958
- Married to Julie Elizabeth (Vande Berg) Radzicki since 1981
  - Three children: Nathaniel (25), Amanda (22), Benjamin (20)
- Excellent health
- Public Service:
  - Elected Member of the Planning Board for the Town of Sterling, Massachusetts
  - Board Member – William J. O'Brien Distinguished Lecture Series
- Hobbies:
  - Distance running
    - Have run six marathons with a PR of 2:48:34
  - Martial arts
    - 4<sup>th</sup> Degree Black Belt in Bushido Zen Kenpo Karate
    - 1<sup>st</sup> Degree Black Belt in Shaolin Kempo Karate
  - Golf
  - Stocks, options, and futures trading