

## Biography of Joseph Fiksel

Dr. Joseph Fiksel is Executive Director of the Center for Resilience at The Ohio State University, an interdisciplinary research center that is developing a unified approach for modeling risk, resilience, and sustainability in complex systems. As Senior Research Scientist for Integrated Systems Engineering, he engages in collaboration with companies, government agencies, non-profits, and other research organizations to



develop new methods and tools for understanding the interdependence among social, environmental, and economic interests. Currently he is leading the development of a toolkit for optimization of industrial ecology networks, with support from the U.S. Environmental Protection Agency.

Joseph is also Principal and Co-Founder of the consulting firm Eco-Nomics LLC, and is an internationally recognized authority on sustainable business practices. He has over 20 years of experience in applied research and management consulting, specializing in environmental risk assessment, product stewardship, design for environment, and sustainability.

A native of Montreal, Joseph began his career at DuPont of Canada, and then joined Arthur D. Little, Inc., where he led the Decision and Risk Management group. Later, he served as Vice President for Life Cycle Management at Battelle, and directed the Responsible Care® Product Stewardship program. His clients have included leading multi-national companies in the chemical, pharmaceutical, agricultural, electronics, defense, automotive, consumer products, glass, cement, and electric power industries. He has managed several major projects for the Global Environmental Management Initiative (GEMI), a consortium of over forty leading U.S. companies, to develop tools that capture the business value of environmental excellence and sustainability. In 2001, he directed a \$2.5 million study of the global cement industry for the World Business Council for Sustainable Development, leading to an agenda for action adopted at the Johannesburg Summit in 2002.

Joseph has served on numerous advisory boards, including the U.S. Technical Advisory Group for ISO 14000 and the advisory boards for sustainable enterprise MBA programs at both University of Michigan and University of North Carolina (UNC). He was an officer and founding member of the Society for Risk Analysis, and has testified on health risk analysis issues before Congressional and White House committees. He has published over 70 refereed articles and several books, and is a frequent invited speaker at business and professional conferences. His most recent book, *Design for Environment: Creating Eco-Efficient Products and Processes*, has been translated into Spanish and distributed worldwide. Joseph holds a B.Sc. from M.I.T., a Ph.D. in Operations Research from Stanford University, and an advanced degree in applied mathematics from La Sorbonne.

### Contact information

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### **Recent Publications (Partial List)**

Bakshi, B. and J. Fiksel, "The Quest for Sustainability: Challenges for Process Systems Engineering," *AIChE Journal*, Vol. 49, No. 6, June 2003.

Fiksel, J., "Designing Resilient, Sustainable Systems," *Envir. Science & Technology*, Dec. 2003.

Fiksel, J., J. Low and J. Thomas, "Linking Sustainability to Shareholder Value," *Envr. Mgt.*, 6/04.

Fiksel, J., D. Lambert, L. Artman, J. Harris, H. Share, "Environmental Excellence: The New Supply Chain Edge," *Supply Chain Management Review*, July/August 2004, pp. 50-57.

J. Fiksel, R. Axelrod, and S. Russell, "Inside Out: Sustainability Communication Begins in the Workplace," *green@work*, Summer 2005.

J. Fiksel, "A Framework for Sustainable Materials Management," *Journal of Materials*, 8/06.

J. Fiksel, "Sustainability and Resilience: Toward a Systems Approach," *Sustainability: Science, Practice, and Policy*, September 2006.

T.J Pettit, J. Fiksel and K.L. Croxton, "Can You Measure Your Supply Chain Resilience?" *Supply Chain and Logistics Journal*, Vol. 10, No. 1, pp. 21-22, 2008.

### **Recent Invited Conference Presentations (Partial List)**

- SustainCommWorld Green Media Show, Boston, Massachusetts, 2008
- National Biofuels Research Conference, Mississippi State University, 2008
- International Conf. on Info. Systems, Logistics & Supply Chains, Madison, Wisconsin, 2008
- Conference Board: Business and Sustainable Development, Washington, DC, 2007
- SINTEC Logistics and Supply Chain Forum, Mexico City, 2007
- U.S. Business Council for Sustainable Development Annual Conference, Austin, Texas, 2006
- Sustainable Innovation International Conference, Chicago, Illinois, 2006
- Institute for Supply Management Annual Conference, San Antonio, Texas, 2005
- Green Chemistry & Engineering Annual Conference, Washington, DC, 2005
- U.S. Environmental Protection Agency, Millennium Lecture, Washington, DC 2005
- Council for Logistics Management, Annual Conference, Philadelphia, Pennsylvania, 2004
- National Association for Environmental Management, Orlando, Florida, 2004
- Air and Waste Management Association Annual Conference, Indianapolis, Indiana, 2004

### **Recent Speaking Engagements at Company or Industry Events (Partial List)**

- Glass Manufacturing Industry Council, Sustainability Conference, Columbus, Ohio, 2008.
- Grocery Manufacturers Association Sustainability Summit, Washington, DC, 2008
- Procter & Gamble Supply Chain Analytics, Cincinnati, Ohio, 2007
- U.S. Energy Star Conference, Atlanta, Georgia, 2007
- Owens Corning Environmental Innovation Conference, Granville, Ohio 2007
- Mayor's "Get Green" Business Conference, Columbus, Ohio, 2006
- Glass Manufacturing Industry Council, Board Meeting, Westerville, Ohio, 2006
- Ohio Chemistry Technology Council, Annual Conference, Columbus, Ohio, 2006
- Cinergy Corporation, Sustainability Forum, Cincinnati, Ohio, 2005
- Eli Lilly, Global EH&S and Sustainability Conference, Indianapolis, Indiana, 2004
- Rio Tinto, Global Sustainability Coordinators Meeting, Salt Lake City, Utah, 2003
- John Deere Company, Annual EH&S Conference, Moline, Illinois, 2003
- 3M Company, Emerging Issue Speaker Series, St. Paul Minnesota, 2002
- Novartis Corporation, Global EH&S Conference, Toronto, Canada, 2001