

Biography of Joseph Fiksel

Dr. Joseph Fiksel is Co-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.

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 management consulting experience, specializing in environmental risk management, 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, 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 in 2003.

Joseph has served on numerous advisory boards, including the U.S. Technical Advisory Group for ISO 14000 and the advisory boards for sustainable enterprise 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.

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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," *Environmental Science & Technology*, December 2003.

Fiksel, J., J. Low and J. Thomas, "Linking Sustainability to Shareholder Value," *Environmental Management*, June 2004.

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.

Katie Sosnowchik and Joseph Fiksel, "Awakening a Sustainability Giant: The Cinergy Story," *green@work*, Winter 2004.

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*, August 2006.

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

Recent Invited Conference Presentations (Partial List)

- 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
- Global Environmental Management Initiative Annual Conference, Washington, DC, 2002
- Engineering and Construction Conference – ECC, Phoenix, Arizona, 2001
- Center for Waste Reduction Technology, Philadelphia, Pennsylvania, 2000
- Greening of Industry Network Annual Conference, Chapel Hill, North Carolina, 1999
- Chemical Manufacturers' Association Annual Conference, Orlando, Florida, 1999

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

- 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
- Visteon, Environmental Stewardship Forum, Dearborn, Michigan, 2001
- Chemical Manufacturers' Association, Responsible Care Conference, Orlando, Florida, 2000
- Electric Power Research Institute, Seminar Series, Boulder, Colorado, 2000