

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 a research faculty member in the Integrated Systems Engineering Department, he collaborates with companies, government agencies, non-profits, and other 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 expert on sustainable business practices, including product development, materials management, sustainable energy and mobility, and supply chain management. He has over 20 years of management consulting experience, specializing in environmental risk management, product stewardship, design for environment, and performance measurement.

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 automotive, electronics, defense, chemical, pharmaceutical, agricultural, 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. He also 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.

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. 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, 2nd Edition: A Guide to Sustainable Product Development*, was published by McGraw-Hill in 2009. Joseph holds a bachelor's degree from M.I.T., a doctorate in Operations Research from Stanford University, and an advanced degree in applied mathematics from La Sorbonne.

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Recent High-Visibility 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 & Tech.*, Dec. 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.
- J. Fiksel, “A Framework for Sustainable Materials Management,” *J. of Materials*, Aug. 2006.
- J. Fiksel, “Sustainability and Resilience: Toward a Systems Approach,” *Sustainability: Science, Practice, and Policy*, September 2006.
- J. Fiksel et al., “EPA at 40: Bringing Environmental Protection into the 21st Century.” *Environmental Science and Technology*, 43 (23), pp 8716–8720, 2009.
- T.J Pettit, J. Fiksel and K.L. Croxton, “Ensuring Supply Chain Resilience: Development of a Conceptual Framework,” *International Journal of Business Logistics*, 2010.
- J. Fiksel, B.R. Bakshi, A. Baral, E. Guerra, B. DeQuervain, “Comparative Life Cycle Assessment of Scrap Tires,” *Clean Technology and Environmental Policy*, 2010.

Recent Invited Conference Presentations (Partial List)

- Conference Board: Business and Sustainability, New York, NY, 2010
- Treading the Green Mile, Mumbai, India, 2010
- International Council on Sustainability Science & Engineering, Cincinnati, Ohio 2009
- Greener by Design 2009 Conference, San Francisco, California, 2009
- International Logistics & Supply Chain Conference, Madison, Wisconsin, 2008
- CIBER: Global Security Challenges & Opportunities, Washington, DC, 2008
- National Biofuels Conference, Jackson, Mississippi, 2008
- SINTEC International Logistics Forum, Mexico City, 2007
- Sustainable Innovation International Conference, Chicago, Illinois, 2006
- Institute for Supply Management Annual Conference, San Antonio, Texas, 2005
- U.S. Environmental Protection Agency, Millennium Lecture, Washington, DC 2005

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

- The New Corporation: SAP Retreat for Global CEOs, Frankfurt, Germany, 2010
- Ohio Chemical Technology Council, Columbus, Ohio, 2009
- Hewlett Packard Sustainability Seminar, San Francisco, California, 2009
- Grocery Manufacturers Association Sustainability Summit, Washington, DC, 2008
- Owens Corning Global Environmental Conference, Nashport, Ohio 2007
- Procter & Gamble Supply Chain Analytics, Cincinnati, Ohio 2007
- Glass Manufacturing Industry Council, Board Meeting, Westerville, Ohio, 2006
- Cinergy Corporation, Sustainability Forum, Cincinnati, Ohio, 2005
- Eli Lilly, Global EH&S and Sustainability Conference, Indianapolis, Indiana, 2004