

James Eflin

Chairperson and Professor, Department of Natural Resources and Environmental Management and Energy Education Scholar, Center for Energy Research/Education/Service
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Areas of Professional Specialization

Renewable Energy Resources; Social Implications of Energy and Technology; Human Dimensions of Global Change; Industrial Ecology; Education for Sustainability

James Eflin stresses research and teaching in the interface between environment and society, with an underlying theme of sustainability. His research has recently focused on industrial ecology, eco-industrial development, and sustainable campuses. His background in social transformations of technology and space were developed through his work in human geography, and is complemented by undergraduate and graduate studies in physical geography, environmental studies, and environmental design. He helped found the Ball State University Field Station and Environmental Education Center (FSEEC), which integrates 420 acres on five off-campus properties that are managed for educational outreach, research and instructional programs for the university. His appointment to the campus-wide Green Committee 2 during 2000-2001 helped lead to the creation of the BSU Council on the Environment (to which he was appointed as a permanent member) and continuation of ongoing greening of campus initiatives. He is the campus representative to the nationwide Council of Environmental Deans and Directors (elected in 2009 to its Executive Committee at Large).

Education

Ph. D. (Geography) University of Washington (1987)
M.A. (Geography) University of Colorado (1978)
B.A. (Geography and Environmental Studies) University of Colorado (1976)

Professional Experience

2006 - Chairperson, Natural Resources and Environmental Management, Ball State University
2007 - Professor, Natural Resources and Environmental Management, Ball State University
2000-2007 Associate Professor, Natural Resources and Environmental Management, Ball State University
1997 - Energy Education Scholar, Center for Energy Research/Education/Service, Ball State University
1992-2000 Assistant Professor, Natural Resources and Environmental Management, Ball State University
1990-1992 Assistant Professor, Geography, Indiana University at Indianapolis, Indianapolis, IN
1987-1990 Assistant Professor, Geography, University of South Florida, Tampa, FL

Fellowships, Grants, Awards, and Honors Received

2009 USDA/SBIR grant, "Solar Thermal Energy Storage Vessel" (w/Solartech, Inc.); amount received: \$25,600.
2006 National Council for Geographic Education *Journal of Geography Award* "Best Article for Teaching at the College/University Level Award for 2006," "Service-learning in Watershed-based Initiatives: Keys to Education for Sustainability in Geography?" *Journal of Geography* 105(1):33-44 (co-authored with Amy Sheaffer).
2004 AT&T Foundation Industrial Ecology Fellowship (w/Amy Sheaffer); amount received: \$25,000
2003 AT&T Foundation Industrial Ecology Fellowship (w/Amy Sheaffer); amount received: \$25,000
1999 U.S. Department of Energy/Indiana Department of Commerce, "Connecting Biomass Producers with Users: Bioenergy Crops on Marginal Lands in Indiana"; \$31,720; 8/99 (co-PI with Hugh Brown and David Ferguson)
1998 Indiana Academy of Science, "Adaptive Reuse of Brownfields Using Natural Ecosystem Analogs: A Preliminary Investigation for Implementation in Indiana Communities"; \$528; 11/98 (\$350 matching funds from Ball State).

- 1998 European Teacher Education Network, "Industrial Ecology in Northwestern Europe"; \$1000 (plus \$1600 matching funds from Ball State University); 2/98.
- 1995-96, 1998-1999, & 2004-2005 CERES Faculty Fellowship, Center for Energy Research/Education/Service, Ball State University

Selected Publications

- 2008 Robert J. Koester, James Eflin, and John Vann. "The Greening of Ball State University: A Whole Systems Approach" in Walter Simpson, ed. *The Green Campus: Meeting the Challenge of Environmental Sustainability* (Alexandria, VA: APPA), pp. 285-97.
- 2008 James Eflin. "Protocols: Political Dynamics and Global Ramifications" in William A. Dando, ed., *Climate Change and Variation: A Primer for Teachers*, Volume 1 (Washington, DC: National Council for Geographic Education), pp. 211-222.
- 2006 Robert Koester, James Eflin, and John Vann. "Greening of Campus: A Whole Systems Approach." *Journal of Cleaner Production* **14**(9-11):769-779.
- 2006 James Eflin and Amy Sheaffer. "Service-learning in Watershed-based Initiatives: Keys to Education for Sustainability in Geography?" *Journal of Geography* **105**(1):33-44. Note: Recipient of Best Article for Teaching at the College/University Level Award for 2006, NCGE *Journal of Geography* Awards Task Force.
- 2006 Robert Koester, James Eflin, and John Vann, "Integrating Academia, Operations, and Community for Campus-wide Sustainable Development" in Robert Farrant and Linda Silka, ed., *Inside and Out: Universities and Education for Sustainable Development* (Amityville, NY: Baywood Publishing), pp.41-61.
- 2006 James Eflin. "Estimating Environmental Impacts of Universities via Material Flow Analysis," *Proceedings of the 4th International Conference on Environmental Management for Sustainable Universities*, Stevens Point, WI.
- 2005 James Eflin. "Institutional Ecology: Applying a Systems Approach to Account for Material Resource Flows and Environmental Impacts in an Institution of Higher Education," *Proceedings, Greening of the Campus VI* (CD-ROM), edited by Robert Koester (Muncie, IN: Ball State University).
- 2004 James Eflin, "Geographers and Sustainability: A Missing Connection?" in Donald G. Janelle, Barney Warf, and Kathy Hansen, Eds. *WorldMinds: Geographical Perspectives on 100 Questions* (Dordrecht/Boston/London: Kluwer Academic Publishers), pp. 339-43.
- 2004 James Eflin, "International Cooperation in Environmental Politics: Ecosystem Management of the Great Lakes and the Baltic Sea," in Neil E. Harrison and Gary C. Bryner, Eds. *Science and Politics in the International Environment* (Lanham, MD: Rowman & Littlefield), pp. 297-323.
- 2004 James Eflin and David L. Ferguson, "Environmental Futures: Educating for Sustainability in the 21st Century," *Research in Geographic Education* (forthcoming; accepted 3/02).
- 2003 Hugh Brown, James Eflin, and David Ferguson "Connecting Biomass Producers with Users: Bioenergy Crops on Marginal Lands in Indiana," CD-ROM (Muncie, IN: Ball State University).
- 2002 James Eflin, Hugh Brown, and David L. Ferguson, "Spatial Analysis of the Potential for Bioenergy Crop Production in Indiana," *Proceedings, Bioenergy 2002*.
- 1999 James Eflin, "Toward a Biomass-Intensive Sustainable Energy Strategy for Indiana," in *Biomass: A Growth Opportunity in Green Energy and Value-Added Products*, Proceedings of the Fourth Biomass Conference of the Americas. Eds. R. P. Overend and E. Chornet (Elsevier), pp. 1697-1702.
- 1998 James Eflin, David Ferguson, Robert Koester, Charles McLaughlin, and John Vann, "Implementing Campus-Wide Environmental Literacy Through a Cluster of Minors," *Proceedings of the 23rd Annual Conference of the National Association of Environmental Professionals* (Jacksonville, FL: National Association of Environmental Professionals), pp. ACE 6-15.
- 1998 James Eflin, "The Greening of the Corporate Image," *The Environmentalist*, **18**(4): 197-211.
- 1998 James Eflin and Juli Eflin, "Thinking Critically About Global Environmental Issues," *Journal of Geography*, **98**(2): 68-78.
- 1997 James Eflin. *Industry in Concert with the Environment: Technical Change and Industrial Ecology as Guiding Forces for Global Environmental Change*. (Washington, DC: Association of American Geographers).

- 1992 James Eflin. "Economic Development of Tampa Bay Through the 'Unifying Language' of Sports," *The Florida Geographer* 26(October):25-39.
- 1990 James Eflin and James Wysong. "Dynamics of Management and Planning Policy," *Geographical Review* 80(2):141-154.

Presentations at Professional Meetings

- 2010 "Is Sustainability 'Science' a Distraction for Environmental Studies/Science?" Association for Environmental Studies and Sciences, Portland, OR 6/10
- 2009 "Preparing Environmental Students for the Green Workforce" panelist, Association for Environmental Studies and Sciences, Madison, WI 10/09
- 2008 "Sustainability by Degrees," 2008 Sustainability Summit for Indiana Colleges and Universities, Muncie, IN 2/08
- 2007 "Greening the Curriculum and Operations at Ball State University: A Whole Systems Approach to Sustainability," SUNY and Sustainability: Transformational Opportunities – Exploring the Nexus of Energy, Environment, Economic Development and Education, Saratoga Springs, NY, 11/07
- 2007 "Protocols: Political Dynamics and Global Ramifications," National Council for Geographic Education, Oklahoma City, OK, 10/07
- 2007 "Assessment of switchgrass production for co-firing in Indiana," Biofuels: Regional Needs, National Challenges, West Lafayette, IN, 5/07.
- 2006 "Estimating Environmental Impacts of Universities via Material Flow Analysis," 4th International Conference on Environmental Management for Sustainable Universities, Stevens Point, WI,
- 2006 "Growing Our Way to Kyoto? A Spatial Assessment of Biofuel Potential in Indiana," Annual Meeting of the Association of American Geographers, Chicago, IL, 3/06
- 2005 "Institutional Ecology: Applying a Systems Approach to Account for Material Resource Flows and Environmental Impacts in an Institution of Higher Education," Greening of the Campus VI, Muncie, IN, 9/05
- 2005 James Eflin. "Institutional Ecology Material Flow Analysis for a 21st Century University," Biennial Meeting of the International Society for Industrial Ecology, Stockholm, Sweden, 6/05
- 2004 James Eflin. "Institutional Ecology in Higher Education," Annual Meeting of Sigma Xi – The Scientific Research Society, Montreal, Quebec, 11/04
- 2004 "Material Flow Analysis: An Institutional Ecology," Centennial Meeting of the Association of American Geographers, Philadelphia, PA, 3/04
- 2003 "Beyond Discipline: Integrating Academia, Operations, and Community for Campus-Wide Sustainable Development," Education for Sustainable Development, Lowell, MA, 10/03
- 2003 "The 'New Environmental Paradigm' Remains a Significant Indicator of Differences in Environmental Attitudes on College Campuses," Greening of Campus V, Muncie, IN, 9/03
- 2003 "Faculty Assessment of Knowledge and Behavior about Environmental and Sustainability Issues" (with Amy Sheaffer), Greening of Campus V, Muncie, IN, 9/03
- 2003 Amy Sheaffer, James Eflin, Molly Crawford, and Sara Cook, "'We all live downstream': Connecting Students with Local Communities in Watershed Management Initiatives," Society for Applied Anthropology, Portland, OR, 3/03.
- 2003 James Eflin, Workshop Facilitator, "Infusing Sustainability into the Curriculum at UMass Boston," day-long workshop at University of Massachusetts Boston, 2/03 (including development and distribution of CD-ROM workshop materials)
- 2002 James Eflin, "Greening the University: Dedication to Sustainable Practices," 10th Governor's Conference on the Environment, Indianapolis, IN, 9/02 (Invited presentation)
- 2002 "Educating for Sustainability in the 21st Century," PKAL Summer Institute, Williamsburg, VA
- 2001 "The Family Joules: A Biofuel-based Strategy to Meet Energy Needs in the Midwest," Association of American Geographers, New York, NY, 3/01
- 2000 "Eco-Industrial Development: Status and Opportunities," Focus on Excellence, Ball State University, Muncie, IN
- 2000 "Becoming a Sustainable University: An Integrated Approach for Implementing the Talloires Declaration," Higher Education for Sustainability and the Environment, South Padre Island, TX

- 2000 "Eco-Industrial Development in North America at 2000," Association of American Geographers, Pittsburgh, PA
- 1999 "Eco-Industrial Development at the End of the 20th Century," Indiana Academy of Science, Evansville, IN
- 1999 "Environmental Futures: Interdisciplinary Environmental Education for the 21st Century," International Conference on Research in Geographic Education, San Marcos TX (w/ Dave Ferguson)
- 1998 "Implementing Campus-Wide Environmental Literacy Through a Cluster of Minors," National Association of Environmental Professionals, San Diego, CA
- 1998 "Ecological Industrial Parks in the United States and Europe," Seventh International Symposium on Society and Resource Management, Columbia, MO, 5/98.

Memberships

Association of American Geographers
Association for Environmental Studies and Sciences
Council of Environmental Deans and Directors
Indiana Academy of Science
International Society for Industrial Ecology
Sigma Xi, the Scientific Research Society