

**BRIAN ORLAND**  
Penn State University

Director, Stuckeman School of Architecture and Landscape Architecture, Penn State University. 2008–  
Professor and Head, Department of Landscape Architecture, Penn State University. 2000–present

Previously:

Interim Associate Dean for Research and Graduate Studies, College of Arts and Architecture, Penn State University. 2008

Professor of Landscape Architecture, University of Illinois at Urbana-Champaign. 1982–2000

Faculty Fellow, National Center for Supercomputing Applications, 1999–2000.

Associate Director, University of Illinois Environmental Council. 1998–1999.

Founder and Coordinator, Imaging Systems Laboratory, University of Illinois. 1986–2000.

Founder and Coordinator, Environmental Rehearsal Studio, University of Illinois. 1998–2000.

Principal Investigator, The East St. Louis Action Research Project. 1990–2000

Visiting Research Fellow, Centre for GIS and Modelling, Geomatics, Univ. of Melbourne. 1989, 1996.

**Current focal areas of activity:**

*Research*

Environmental perception of physical and manageable characteristics of the environment. Computer-based visualization in support of decision-making as well as visual perception research.

Methodological studies in data visualization.

*Technology Development*

Creating and evaluating high-quality virtual environments for rehearsing (describing and testing) interventions in urban and natural environments. Standards/expectations for visualization systems and data visualization techniques.

**Education:**

BA (Hons) Architecture, University of Manchester. June 1974.

BArch, University of Manchester. June 1976.

MLA, University of Arizona. August 1982.

**Professional Background:** A registered architect since 1977, he has worked in private practice in the United Kingdom, in East Africa and in Central America. Practicing initially in commercial development and subsidized housing his experience in Tanzania and El Salvador focused on innovative solutions for low-cost and self-build housing systems, including the planning and development of neighborhood infrastructure. Practicing in landscape architecture and planning since 1981, his work has included consulting in tourism development, neighborhood planning, forest management and the application of computing in planning and design.

**Teaching:** He has taught design at undergraduate and graduate level, with particular emphasis on human-environment interactions. At the graduate level he has taught land resource evaluation and environmental perception. Much of his teaching from 1990–2000 took place in the context of the East St. Louis Action Research Project, a nationally acclaimed service learning program which engages students

in partnerships with community residents and leaders to develop innovative planning and organizational responses to urban issues.

### Recent Publications:

- 2001, Orland, B., and J. Uusitalo, Immersion in a Virtual Forest: Some Implications. Chapter 14 In, Sheppard, S.R.J. and H.W. Harshaw (eds.) (2000) *Forests and Landscapes: Linking ecology, sustainability and aesthetics*. IUFRO research Series, No. 6. Wallingford Oxon: CABI Publishing. ISBN 0 85199 500 4. 205–224.
- 2001, Orland, B., K. Budthimedhee, and J. Uusitalo. Considering Virtual Worlds as Representations of Landscape Realities. *Landscape and Urban Planning*. 54, 139–148.
- 2002, Kalisperis, L., Otto, G., Muramoto, K., Gundrum, J., Masters, R., Orland, B. An Affordable Immersive Environment in Beginning Design Studio Education. ACADIA 2002, San Luis Obispo
- 2003, Orland, B., and R. Marshack. A Walk Beside the Yamuna: Engaged Communication. *Architecture+Design, India*. Vol. XX, #6, 68–71. Volume features “Taj Mahal Cultural Heritage District Plan” for which I was a co-author.
- 2003, Stewart, W., K. Larkin, B. Orland, D. Anderson. Boater Preferences for Beach Characteristics Downstream from Glen Canyon Dam, Arizona. *J. of Environmental Management*, 69, 201–211.
- 2004, Rusnak, C., B. Orland, J. Hendrych. Reciprocal Benefits of Student Service-Learning in Addressing the Needs of Heritage Landscapes. In: *Proceedings, 7<sup>th</sup> Symposium US-ICOMOS (International Commission on Monuments and Sites) CD-ROM* 9pp.
- 2005, Orland, B. “Calibrating” images to accurately depict future conditions. In: I. Bishop and E. Lange, (eds.) *Visualization in Landscape and Environmental Planning*. London: Taylor and Francis. 104–111.
- 2006, Donaghy, K., J.W. Eheart, E. Herricks and B. Orland. An Integrated Assessment of Impacts of Predicted Climate Change on the Mackinaw River Basin. In Matthias Ruth, Kieran Donaghy, and Paul Kirshen (eds) *Regional Climate Change and Variability: Impacts and Responses*, Cheltenham, UK: Elgar. 79–127.
- 2006, Orland, B. The 0.1 Percent Dilemma: How can Academics Grow the Profession when 99.9 percent of High School Students Don’t Apply to Landscape Architecture Programs? *Landscape Architecture Magazine*, 96, 11: 88–92.
- 2007, Orland, B. and C. Ursavas. Visualizing forest bio-physical characteristics in the context of studies of perceived fire hazard. In, S. McCaffrey (ed.) *The Public and Wildland Fire Management: Social Science Findings for Managers*. Gen. Tech. Rep. NRS-1. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station. 187–196.