



**Roger S. Ulrich, Ph.D.**

Dr. Roger Ulrich is Professor of Architecture at Texas A&M University and a faculty fellow of the Center for Health Systems & Design, an interdisciplinary center housed jointly in the colleges of Architecture and Medicine. A behavioral scientist, he conducts research on the effects of healthcare facilities on medical outcomes. Dr. Ulrich and his associates have researched, for example, the effects of hospital window views on recovery from surgery, the effects of art on patient outcomes, and how noise impacts patients and staff. Among other achievements, his research is the first to document scientifically the stress reducing and health-related benefits for hospital patients of viewing nature. This and other work has influenced internationally the architecture and interior design of scores of major hospitals. Further, Dr. Ulrich has developed a Theory of Evidence-Based Design that has become influential as a scientifically grounded but “user friendly” guide for creating successful healthcare facilities.

Dr. Ulrich has published widely in both scientific and design journals, and his research has received international scientific recognition. He has worked extensively in Scandinavia, especially Sweden, where he has carried out research at Lund Institute of Technology, Uppsala University, and the Karolinska Institute of Medicine. He has also been Visiting Research Professor in Healthcare Architecture at the University of Florence, Italy, and served as Invitation Research Fellow of the Japan Society for the Promotion of Science. Also, he serves as advisor on evidence-based healthcare design for the British National Health Services. He is a member of the Board of Directors of The Center for Health Design, California, and serves as co-chair of its national Research Committee.

**Ph.D., 1973,**  
(Human/Behavioral Geography) University of Michigan, Ann Arbor

**MA, 1971**  
(Human/Behavioral Geography) University of Michigan, Ann Arbor

**B.A., 1968,**  
(Economics) University of Michigan, Ann Arbor

## Employment

### **Director, Center for Health Systems and Design, Texas A&M University, 1997 - present**

Jointly housed in the colleges of Architecture and Medicine, the Center emphasizes multidisciplinary approaches for research, graduate education, and outreach for designing improved healthcare facilities and communities. The Center's activities cut across different academic departments and colleges, but involve mainly faculty and graduate students in architecture, landscape architecture, and planning. The Center supports courses for a multidisciplinary graduate certificate in Health Design, which presently enrolls about 20 Ph.D., M.Arch, and MLA students. Current research and design projects focus, for example, on women's healthcare facilities, nursing homes, neighborhood clinics, healing gardens, restorative landscapes, accessible communities, and benefits of nature for elderly.

### **Associate Dean for Research, College of Architecture, Texas A&M University, 1988-1997**

The College is one of the largest university programs in the United States concerned with the design, planning, and construction of environments. (Approximately 106 faculty PTEs, 1400 undergraduate students, 375 graduate students.) Responsibilities as associate dean included research policy, research development, administrative oversight for external contracts and grants that on average exceeded \$3 million annually, programs for awarding seed grants for scholarly and creative projects, and administrative responsibility for seven (later eight) multidisciplinary centers and laboratories. Activities of the college span the full research continuum—from community outreach (funded, for example, by HUD and line items from the Texas Legislature), through application-oriented projects, to basic research funded by such federal agencies as NSF and NIH.

### **Professor (joint appointment), 1988-present,**

Departments of Landscape Architecture and Architecture, College of Architecture, Texas A&M University

### **Visiting Research Professor, Spring, 1997**

College of Architecture, University of Florence, Italy

### **Visiting Researcher, 1984-1985**

Department of Clinic Psychology, Uppsala University, Sweden

### **Visiting Professor, 1977-1978**

Department of Theoretical and Applied Aesthetics, School of Architecture, Lund Institute of Technology, Lund, Sweden

### **Lecturer, Assistant Professor, and Associate Professor, 1973-1978**

Department of Geography, University of Delaware, Newark, Delaware

### **Planning Consultant, 1972-1973**

Ann Arbor City Planning Department  
Ann Arbor, Michigan

### **Research Associate, 1971-1972**

Regional Research Associates  
Ann Arbor, Michigan

## Awards and Recognition

**University of Michigan Regents' Scholarships, 1964-68**

**Ford Foundation Fellowships, University of Michigan, 1970-72**

**Rackham Prize Fellowship, Rackham School of Graduate Studies, University of Michigan, 1972-73.** (Highest graduate fellowship award given by University of Michigan.)

Paper with K.Klink on "Effects of Winter Weather on Employee Absenteeism" selected by Program Committee as Outstanding Paper for release to national media, Annual Meetings of the Association of American Geographers, 1983. (One of 12 papers selected out of several hundred)

Paper with R.Davis on "**Summer Weather and Employee Absenteeism**" selected by Program Committee as Outstanding Paper, Annual Meetings of the Association of American Geographers, 1984. (One of 15 papers recognized out of approximately 900.) Paper subsequently presented at request of the Office of the Secretary, U.S Department of the Interior, Washington, DC., 1984

Article in *Science* (April, 1984) selected as "**Medical News of the Week**" for reporting by the American Medical Association Radio Network and the Physicians' Radio Network. Research subsequently cited prominently in *Journal, American Medical Association* editorial calling for a new conceptual model in medicine (June, 1986)

- This research has influenced internationally the architectural form, location, land acquisition, siting, landscaping, and interior design of scores of major hospitals and other healthcare facilities built or renovated since 1984.
- Influenced the recent revisions to the Environmental Quality Criteria for accreditation of hospitals and healthcare organizations implemented by the Joint Commission on Accreditation of Healthcare Organizations (JAHCO). In a dramatic change that may have far-reaching effects nationally, JAHCO's new accreditation criteria call for healthcare organizations to provide in facilities the "availability of the calming and restorative powers of nature" (Standard EC.4. 1) Also, the criteria call for providing "pleasant" window views that can be seen by patients from their beds.

**Paper with R. Simons on "Effects of Experiences with Environments on Stress Recovery"**

selected by Program Committee as outstanding paper for release to national media, Annual Meetings of the Association of American Geographers, 1986. (One of 15 papers selected out of approximately 800 given at the meetings.) Subsequently reported as "Medical News" by Physicians' Radio Network (April, 1987).

**Paper with T. Cosgrove on "Front Yards of Conservatives vs. Liberals"**

selected by Program Committee as Outstanding Paper, Annual Meetings of the Association of American Geographers, Phoenix, 1987. (One of about 20 papers selected out of approximately 1000.)

**National Award for Exemplary Team Leadership in Higher Education,**

(one of team members cited), American Association of University Administrators, 1990.

Selected by President of Texas A&M University as the sole representative of the 2500+ Texas A&M faculty for national meeting, "Stresses on Research in Colleges and Universities." National Academy of Sciences, Washington, DC, December, 1993.

Chapter in *The Biophilia Hypothesis* (edited by S. Kellert and E. O. Wilson) singled out for discussion in lead review in *Science* (25 February, 1994, pp.1161-1162).

National Association of Home Builders (NAHB) President Randall Smith cited the "major contributions" of my research to the publication: *Building Greener Neighborhoods: Trees as Part of the Plan*. Washington,DC: Home Builder Press/NAHB, 1996. This book has received three international awards, including the ECO Award from the Natural Resources Defense Council.

**BEDSCAPES, a healthcare design product patented by Healing Environments International, Inc., in 1996**

won (first place) three major international healthcare interior design product awards, including the Nightingale Award. BEDSCAPES was developed and subsequently has been marketed based on my work.

**Invited to serve as Visiting Research Professor in Architecture,**

University of Florence, Italy, 1997.

**Awardee, Japan Society for the Promotion of Science Invitation Research fellowship**

(focusing on People Plant Relationships), 1998

- *Who's Who in American Education* (Marquis)
- *Who's Who in medicine and Healthcare* (Marquis)
- *American Men & Women of Science*. New Providence,NJ: R. R. Bowker.
- *Who's Who in America in Science and Engineering* (5th Ed.)(Marquis)
- *Who's Who in the South and Southwest* (Marquis)
- *Dictionary of International Biography*,27 edition. Cambridge: UK.

- *Who's Who in the World* (next edition, Marquis)

## **Selected Professional and Service Activities**

### **Editorial Activities**

- Member, Editorial Board, *Landscape and Urban Planning* (1997-present).
- Member, Editorial Board, *Urban Ecosystems* (1995-present).
- Member, Editorial Advisory Board, *Landscape Research* (1982-1996).
- Member, Editorial Board, *Man-Environment Systems* (1978-83).

### **Reviewer for Journals:**

- *Annals, Association of American Geographers*
- *Anthropos*
- *Archives of Internal Medicine*
- *Environment and Behavior*
- *Environmental Impact Assessment Review*
- *Geographical Review*
- *Journal of Architectural and Planning Research*
- *Journal of Environmental Psychology*
- *Journal of Social and Developmental Psychology*
- *Landscape and Urban Planning*
- *Landscape Journal*
- *Proceedings of the Environmental Design Research Association*
- *Professional Geographer*
- *Review of General Psychology*
- *Urban Geography*

Reviewer for more than 50 proposals for research funding agencies in the U.S. (e.g. NSF), Canada, and Sweden.

### **National and International Service**

- (Elected) Councilor, Delaware Valley Geographical Association (DVGA). (The DVGA membership base consists of faculty from 12 universities and colleges, and professional planners and geographers.) 1967-80.
- Member, Election Committee, Middle States Division, Association of American Geographers, 1977-78.
- Member, Program Committee, National Meetings of the Association of American Geographers, 1979.
- (Elected) Vice-President, Delaware Valley Geographical Association, 1980-83
- Board member (representing the University of Delaware), Consortium for Environmental Forestry Studies (USDA Forest Service and 11 eastern universities), 1982-84.
- (Elected) Member, Board of Directors, Environmental Perception Specialty Group, Association of American Geographers, 1985-87.
- Chair, Long-Range Planning Group, Environmental Perception Specialty Group, Association of American Geographers, 1986-87
- (Elected) President, Delaware Valley Geographical Association, 1985-86
- Member, North American Committee, Nature Experience Research Program (a joint European-North American research funding program), 1983-1987.
- Member, Urban Ecosystems Directorate, U.S. Man and Biosphere Program. U.S. Department of State and UNESCO, 1987-91.
- Member, committee to develop a "A Research Agenda for the Impact of Community Greening." American Community Gardening Association, 1991-1992
- (Elected) Member, National Executive Board, Architectural Research Centers Consortium (ARCC), 1992-1995.
- Member, Healthcare Design Research Committee. (A national committee), The Center for Health Design, San Francisco, California, 1992-present.

- Co-organizer (with K.Spreckelmeyer and J.Robinson) of conference, "Reconfiguring the Design Studio: Integrating Research Into Teaching in Architecture Schools." Architectural Research Centers Consortium and Association of Collegiate Schools of Architecture. San Antonio, 1993.
- Member, American Institute of Architects (AIA) planning committee on "The Critical Care Unit of the Future," 1994.
- Member, Board of Trustees, The Center for Health Design, San Francisco, 1995-present.
- Member, American Architectural Foundation/AIA team to interact with Disney, Inc. about possible exhibit on architecture for Disneyworld in Orlando. Spring, 1995.
- Member of initial task force, American Architectural Foundation/AIA initiative on Architecture and the Human Experience, 1995-present.
- Member, American Society of Landscape Architecture President's Task Force on the Value of the Profession to Society, 1995-97.
- Member, author group, Scenic America and National Park Service project to develop manual for assessing visual quality for community planning and design applications. 1996-97.
- Member, Expert Committee on Large Airports and Public Health (appointed by Netherlands Ministries of Health and Environment, and the EU) to evaluate environmental, social, and public health impacts of the proposed expansion of Schiphol Airport, Netherlands. (If carried out, the expansion would be the most important and expensive EU construction/planning project since the Channel.) My responsibilities focus on evaluating potential impacts of the proposed project on landscape and urban visual quality, and stress related to, for instance, aircraft noise and reduced access to nature. 1998-present.

#### **Selected University and Community Service: University of Delaware (1973-88)**

- Member, University Cultural Activities Committee, 1975-77
- Member, Mayor's Committee on Downtown Development (later, Community Development Task Force), Newark, Delaware, 1967-78
- Representative from Delaware Humanities Forum, Committee to evaluate proposed New Castle County Comprehensive Development Plan, Delaware, 1977.
- Member, University Visiting Scholars and Speakers Committee, 1977-79, 81-83.
- Faculty senator, University Faculty Senate, 1975-77, 77-79, 79-81, 83-84.
- Member, University Council on Program Evaluation, (committee to evaluate college of Urban Affairs), 1978-79.
- Chair, Provost's Committee to Evaluate Uses and Abuses of the Pass/Fail System, 1979-80
- Member, College of Arts and Science Committee to Develop Interdisciplinary Minor in Urban Affairs, 1980-81.
- Fund-raising coordinator for three university departments, University Development Campaign for Expansion of Morris Library, 1983.

#### **Selected Department Service: University of Delaware (1973-88)**

- Developed departmental student course evaluation questionnaire, Department of Geography, 1974-75
- Developed undergraduate and graduate program for funded internships for Delaware geography students at the Smithsonian's Chesapeake Bay Center for Environmental Studies, Edgewater, Maryland.
- Chair, Department of Geography Promotion and Tenure Committee, 1979, 1980, 1981, 1987. Member, 1975, 1983, 1984.
- Chair, Department Committee for Five-Year Review of Associate Professors, 1982-83, 1986-87.
- Member, Committee for Five-Year Evaluation of Chair of Geography, 1982.
- Chair, Department of Geography Faculty Search Committees, 1980, 1987.