

JOAN IVERSON NASSAUER

School of Natural Resources and Environment

Dana Building, 440 Church St., Ann Arbor, MI 48109-1041

734-763-9893, FAX 734-936-2195 nassauer@umich.edu <http://www-personal.umich.edu/~nassauer/>

Education

M.L.A. – 1978, Iowa State University.

B.L.A. - 1975, University of Minnesota.

Major: Art, 1970-72, Macalester College, St. Paul, MN.

Professional Positions

1997- present Professor of Landscape Architecture, University of Michigan.
1991-1995 Head, Department of Landscape Architecture, University of Minnesota.
1990-1997 Morse Alumni Distinguished Teaching Professor of Landscape Architecture, U of MN.
1989-1992 Adjunct faculty member, Hubert H. Humphrey Institute for Public Affairs.
1989-1992 Limited graduate teaching status in Geography.
1985-1997 Graduate faculty member, Department of Horticultural Science.
1985-1990 Associate Professor of Landscape Architecture, University of Minnesota.
1982-1985 Assistant Professor of Landscape Architecture, University of Minnesota.
1980-1981 Landscape Architect, Cairns and Nassauer, Champaign, IL.
1978-1982 Assistant Professor of Landscape Architecture, University of Illinois, Urbana.
1976 Landscape Architect, Design Collaborative, Ames, IA.
1975-1978 Instructor of Landscape Architecture, Iowa State University, Ames.

Awards and Honors

Academic and Professional Distinctions

- Distinguished Landscape Ecologist, US-International Association for Landscape Ecology, 2010. An award for outstanding scientific achievement that pervades landscape and its continuing development.
- 2008 Best landscape ecology paper of the year: Honorable mention. For Nassauer, J. I., and Opdam, P. Design in science: Extending the landscape ecology paradigm. **Landscape Ecology** 23: 633-644.
- 2007 Best landscape ecology paper of the year: Honorable mention. For: Gobster, P. H., Nassauer, J.I., Daniel, T. C., Fry, G. 2007. The shared landscape: what does aesthetics have to do with ecology? **Landscape Ecology** 22:959-972.
- Inaugural SNRE Student Government *Last Lecture*: “Beauty Matters”. January 2008.
- Distinguished Scholar, International Association for Landscape Ecology, 2007.
- Fellow of the Council of Educators in Landscape Architecture, 2007.
- Visiting Fellow, New Zealand Institute of Landscape Architects, 2006.
- Beatrix C. Farrand Visiting Distinguished Professor, Uof California, Berkeley, 2003.
- Miegunyah Distinguished Fellow, University of Melbourne, Australia, 2001.
- Research Award. Japan Forestry and Forest Products Research Institute, Tsukuba Norin Kenkyu, Japan, 2000.
- Distinguished Landscape Ecology Practitioner, US Section, International Association for Landscape Ecology, 1998.
- Minnesota ASLA Lob Pine Award. To the person who has provided longstanding leadership in the state, 1997.
- Ford Foundation Fellow of the Hubert H. Humphrey Institute for Public Affairs, 1995-6.
- Fellow of American Society of Landscape Architects, 1992.
- Morse Alumni Award for Outstanding Contributions to Undergraduate Education. U of MN, 1991.
- Roy Jones Award for Outstanding Research. College of Architecture and Landscape Architecture. U of MN. 1990.

- University of Illinois Fellowship for faculty study in a second discipline: Agriculture Economics, 1982.
- Tau Beta Pi, engineering honorary, 1975.
- Minnesota Horticultural Society Scholarship, 1974.
- National Merit Scholar, 1970.

Competitions

- 2009 Award of Excellence for graphic design. National Association of Government Communicators. *Vacant Property Now and Tomorrow*, J. I. Nassauer & R. VanWieren, 2008, was designed in collaboration with Michigan Sea Grant graphic designers: E. LaPorte & T. Marsee.
- Faculty advisor to the Flint Futures masters project team (Dowell, et al.), 2007 winner of the International Federation of Landscape Architects student design prize for their project: "Flint Futures: Normative Scenarios for Brownfield Redevelopment in Flint, Michigan".
- First Place: Environmental Research. 2003 National Environmental Excellence Awards. Federal Highway Administration. Aesthetic Initiative Measurement System for the Minnesota Department of Transportation. J. I. Nassauer, T. Borich, and N. Ladjahasan.
- First Place: Partnership Minnesota. 1999. North St. Paul Urban Ecology Center.
- Second Place: Outstanding Municipal Storm Water Control Program. 1997. United States Environmental Protection Agency National Award. Maplewood Urban Retrofit Project.
- Best Refereed Paper of the Year Award. 1986. Department of Horticultural Science and Landscape Architecture. U of MN.
- National ASLA Merit Award for Research. 1985. "Visual Preferences for Coastal Landscapes Including Oil and Gas Development."
- National ASLA Merit Award for Research. 1982. "Framing the Landscape in Photographic Simulation."
- Minnesota State ASLA Award. 1975. "Draft EIS for Trunk Highway 36: Cedar Avenue."

Past and Current Funding

- 2011-13 Graham Environmental Sustainability Institute. \$40,000. Neighborhood Care Dynamics in the City of Detroit.
- 2008-12 National Science Foundation. \$1,166,066. Spatial Land-Use Change and Ecological Effects: Interactions of Exurban Land Management and Carbon Dynamics. (with D. G. Brown, W. Currie, S. E. Page, and D. Parker).
- 2007 GIS analysis for landscape futures for Genesee County. Genesee Institute. \$17,000.
- 2006-8 Alternative design futures for the GM-Delphi site in Flint, MI. Genesee Institute. \$35,000.
- 2005-6 MN Department of Transportation. \$75,000. Aesthetic Initiative Measurement System II.
- 2000-4 USDA Forest Service. \$85,000. Integrating landscape ecological knowledge into design of agricultural landscape scenarios for improved water quality and sustainability of the Upper Mississippi River Basin.
- 2003-6 Norwegian Institute of Land Inventory. \$25,000. U of MI Center for European Studies matching grant. \$2500. Landscape indicators for agricultural landscapes.
- 2003-7 National Science Foundation. Award No. BCS-0119804. \$1,289,691. Spatial Land Use Change and Ecological Effects at the Rural-Urban Interface: Agent-Based Modeling and Evaluation of Alternative Policies and Interventions. (with D. G. Brown and S. E. Page).
- 2000-4 USDA Forest Service. Grant No. 00-JV-11231300-033. \$87,818. Aligning Social and Ecological Drivers of Urban Landscape Change: The Calumet Urban Riparian Area.
- 2000-3 National Science Foundation. \$99,973. Biocomplexity at the Interface of Social and Ecological Systems. (with D. G. Brown, J. D. Allan, T. G. Crow, and S. Yaffee).
- 2000-3 USDA Forest Service. \$49,869. Landscape Level Analysis Linking Urban Sprawl and Aquatic Ecosystems. (with D. G. Brown, and J. D. Allan).
- 1999-02 National Science Foundation. Grant no. EAR 9900679. \$657,000. Development and Testing of a Decision-Support System for River Restoration. (with D. Allan, G. Helfand).
- 1998-03 USDA Forest Service. Grant no. 23-98-34-RJVA. \$50,000. Cultural Indicators of Landscape

- Ecological Health.
- 1998-03 USDA Forest Service. Grant no. NA-98-0223. \$20,000. Infrastructure for Ecological Quality in Your Neighborhood.
- 1997-00 Environmental Protection Agency /NSF. Grant no. R825335-01-0. \$1,228,521. Modeling Effects of Alternative Landscape Design and Management on Water Quality and Biodiversity in Midwest Agricultural Watersheds. (with M. Santelmann, K. Freemark, & B. Danielson).
- 1997-99 Legislative Commission on MN Resources. \$160,000. Wetland Ecosystems Monitoring. (with S. Galatowitsch).
- 1995-97 Legislative Commission on MN Resources. \$200,000. Wetland Restoration and Enhancement to Create Community Amenity and Form.
- 1995-97 City of Maplewood, MN. \$42,270. Neighborhood Perception of an Ecological Storm Water System: Retrofitting the Suburbs.
- 1995-97 City of St. Paul, MN. \$24,581. Design concepts for Phalen Wetland Park.
- 1995-96 Ford Foundation. \$16,128. Metropolitan Growth Management Project.
- 1995 McKnight Arts and Humanities Endowment. \$18,500. In support of: Working in a World Dominated by Humans. 1995 National Landscape Ecology Symposium
- 1994-96 Ramsey-Washington Watershed District. \$26,600. Development of an Ecological Survey Technique, and model ecological site applications.
- 1994-96 U of MN VP for Research. \$60,000 (with D. Karasov). Cultural Principles for Landscape Ecology.
- 1994-99 MN Agricultural Experiment Sta. \$120,000. Policy and public perceptions of the ecological quality of Minnesota rural landscapes.
- 1993-95 USDA Natural Resource Conservation Service. \$32,000. Ecosystem Management Principles.
- 1990-95 McKnight Foundation (through Ramsey-Washington Watershed District). \$36,000. Phalen Watershed Analysis, Design, and Ecosystem Management Project.
- 1991-94 Morse Alumni Award for Outstanding Contributions to Undergraduate Education. \$15,000.
- 1990 USDA Soil Conservation Service. \$13,000. Implications of Rural People's Perceptions for the 1990 Food Agriculture Conservation and Trade Act.
- 1989-93 North Central Forest and Range Experiment Sta, U.S. Forest Service. \$50,600. Simulation of Alternative Landscape Treatments to Improve the Landscape Ecology of Urban Forests in Residential Areas.
- 1989-94 U of MN Agricultural Experiment Sta. \$47,500. Perception and Adoption of Resource Conservation Practices in Rural Minnesota. (with David Pitt).
- 1988-92 Intermountain Forest and Range Experiment Sta., U.S. Forest Service. \$61,000. Measuring perceptions of campsite damage in wilderness. (with D. Lime, Dept. of Forest Res., & D. G. Pitt).
- 1987 U of MN Center for Educational Development. \$7,825. Multi-discipline instructional materials for a geographic information system active learning laboratory (with D. A. Brown, B. Lukermann, & P. Robert).
- 1986 IBM Corporation. \$25,048. Simulating landscape change: Image capture (with L. Neckar & D. G. Pitt).
- 1985 IBM Corporation. \$26,853. IBM Computers for innovative teaching in horticulture and landscape architecture (with E. Hoover & A. Markhart).
- 1985-87 USDA Soil Conservation Service. \$9,500. U of MN Agricultural Experiment Sta. \$7,500. U of MN Center for Urban and Regional Affairs. \$8,473. Olmsted County. \$5,678. (Total \$31,151.) A computer aided landscape quality assessment of Olmsted County.
- 1984-85 Wright County. \$13,400. Park and open space survey of Wright County.
- 1983 U of MN Center for Educational Development. \$2,800. Use of the Minnesota Land Management Information Center geographic information system in teaching regional land analysis.
- 1983-85 USDA Soil Conservation Service. \$16,000. U of MN Grad. Schl. Grant-in-Aid of Research. \$12,000. (Total \$28,000.) Development of a county-scale visual assessment procedure.
- 1980-83 American Society of Landscape Architects. \$6,300. U of MN Large Grants Committee. U of IL Research Board. Survey on the status of women in landscape architecture.
- 1981 USDI Bureau of Land Management, U of IL Research Board. \$5,809. Development of a survey

- instrument and visual simulation format for assessing the visual quality of the outer continental shelf.
- 1979 USDA Soil Conservation Service. \$4,958. Development of a methodology for assessing the visual quality of the Illinois countryside.
- 1977-78 Iowa State U Design Center Research Board. \$1,779. Form as an artifact of movement.

Professional Activities

- Secretary, National Academy of Environmental Design, 2009-present.
- Chair, US- IALE Taskforce on Public Policy, 2010-present.
- Panelist, National Stormwater Rule, US EPA Office of Water, Washington, D.C., 2010.
- Design Jury, Integrating Habitats. An international design competition, Portland METRO, 2008.
- Fellows Chair, Council of Educators in Landscape Architecture (CELA), 2007- 2009.
- **Landscape Journal** Taskforce, 2007- 2008.
- Editorial Boards, **Landscape Journal**, 2003 – present, **Landscape & Urban Plan**, 1991-1995, 2010-present. **International Association for Landscape Ecology Book Series**, Cambridge Press, 2000 – present, **Future Cities Book Series**, Springer Press, 2008 – present, **Landscape Ecology**, 1993 – 2006, **Landscape Ecological Monographs**. Kluwer Press, 1999 - 2002, **Jnl Soil & Water Conservation**. 1993 – 1998, **Studies in Landscape Ecology**, Chapman and Hall. 1991-98.
- Advisory Board, The Land Institute, 1998 – 2010.
- Paper review. **Agriculture, Ecosystems, and Env; Ecological Applications; Ecology and Society; Env & Plan B; Env & Urban Sys; Environmental Mgmt; Jnl Applied Ecology; Jnl Soil and Water Conservation; Coastal Mgmt; Jnl HortSci; Jnl American Water Res Assoc; Jnl Env. Plan & Mgmt; Jnl of Landscape Arch; Jno of Sus Ag; Jnl Urban Design; Landscape Jnl; Landscape and Urban Plan; Landscape Ecology; Landscape Research; Rural Soc; Science; Society and Natural Res.**
- Manuscript review. Cambridge U Press, Columbia U Press, John Wiley and Sons, Island Press, MIT Press, Ohio State Press, Routledge Press, US EPA, USDA Soil Conservation Service, National Park Service.
- Proposal review. Leopold Center, U Mass Press, U MI National Center for Institutional Diversity, National Endowment for the Arts, National Endowment for the Humanities, National Science Foundation, Ohio State U Press, Social Sciences and Humanities Research Council of Canada, University of Michigan Press, Belgian Research Council.
- Abstract review. CELA Annual Meetings. U. S. Section IALE Annual Symposia.
- Review of dossiers for promotion or tenure: Arizona S U, U of Arizona, U of CA- Berkeley, U of California – Davis, U of British Columbia, Colorado S U, U of Guelph, Harvard U, Iowa S U , U of IL, Kansas S U, U of Maryland, U of Mass , U of Melbourne, Australia, Uof MI, U of MN, U of Oregon, Penn S U , S U of New York, York U (Toronto), Washington S U , U of Washington, U of Wisconsin.
- Advisory Panel, National landscape architecture research agenda, Landscape Architecture Foundation, 1999 – 2001.
- International Vice-President, International Association for Landscape Ecology (IALE). 1991 – 1999.
- Program Chair, **Working in a World Dominated by Humans: 10th Annual National Landscape Ecology Symposium**. IALE. Mpls., MN 1995.
- Chair, United States Section, IALE, 1990 - 1992. First landscape architect to chair U. S. IALE, an international association of ecologists, wildlife biologists, geographers, planners, and landscape architects, that fosters landscape ecology and promotes interdisciplinary research and communication.
- Secretary, U.S. Section, IALE. 1986-90.
- Editor, **U. S. Section Newsletter**, IALE. 1988-1990.
- U. S. Editor, **IALE Bulletin**, IALE. 1986-90.
- American Society of Landscape Architects (ASLA), National Awards Jury. 2000, 1991, 1990, 1983.
- ASLA Fellows National Jury, 1994-6. Chair, 1996.
- ASLA National Awards Program Committee, 1995, 2001.
- Chair, ASLA Fellows National Election Criteria Task force, 1996.
- Chair, Legislative Steering Subcommittee, Rural Landscape Committee, ASLA, 1989 - 1994.

Spearheaded ASLA development of a Position on the 1990 Farm Bill, and Congressional Report Language for the Bill.

- Chair, Wisconsin Chapter ASLA Professional Awards Jury. 1996.
- Founding Board of Directors, Minnesota Institute for Sustainable Agriculture. 1992 - 1993.
- Advisory Panel, Great Plains Environmental Design Series, Iowa State University Press. 1987 -94.
- Landscape Architecture Foundation National Thinktank on Research. 1990-91.
- Pennsylvania State University Landscape Architecture Graduate Degree Advisory Group. 1997.
- U of MN President's Distinguished Faculty Mentor Program. 1995-1997.
- Vice-Chair, Landscape and Land Use Planning Committee, ASLA. 1989.
- Special Task Force to Develop a National Growth Strategy, ASLA. 1987-88.
- Planning and Policy Advisory Committee of the Council on Education, ASLA. 1983-85.
- Committee on Women in Landscape Architecture, ASLA. 1979-84.
- Minnesota Governor's Beautification Committee, 1985-86.
- Development Committee. National Workshop on Two-Career Families for Landscape Architects. 1979. Urbana, Illinois.
- Chair. National Workshop for Women Landscape Architects. 1978. Ames, Iowa.

Memberships

American Society of Landscape Architects (ASLA)

Council of Educators in Landscape Architecture (CELA)

International Association for Landscape Ecology (IALE)

Professional Registrations

Landscape Architect No. 170 - Iowa

Landscape Architect No. 016189 7 - Minnesota

Selected Committee and Administrative Activities

University of Michigan

Program in the Environment Advisory Council, 2010- present.

Real Estate Certificate Advisory Council, 2010 – present.

Faculty Planning Committee, Provost's Seminar on Sustainability, 2010.

University Senate, 2009-present.

PhD Committee, SNRE, 2009-10.

Admissions and Scholarship Committee, SNRE, 2009-10.

Chair, Landscape Architecture Search Committee, SNRE, 2009.

University Advisory Committee: Strategic review of the Taubman College of Arch. & Urban Plan., 2008.

Promotion and Tenure Committee, SNRE. 2007-8.

Promotion and Tenure Select Committees, SNRE. 2007-8.

Coordinator, Landscape Architecture Program, SNRE. 2005–2007.

Chair, Promotion and Tenure Select Committee, SNRE. 2004-6.

Executive Committee, SNRE. 1999-2001, 2003-05.

Coordinator, Resource Planning, SNRE. 2004-2005.

Chair, Ecosystem Management and Conservation Biology Theme. SNRE. 2003-5.

White Paper on Management of the MLA Program, SNRE, 2003. T. Brown and J.I. Nassauer.

Curriculum Chair, Landscape Architecture Program, SNRE 2002-2003.

Masters Programs Committee, SNRE. 2002-3.

Co-Chair, Sustainable Design Search Comm, SNRE & Taubman Col of Arch & Urban Plan. 2002-2006.

Ecosystem Management Steering Committee, SNRE. 2000-2004.

Provost's Development Campaign Planning Committee, U of MI. 2000–01.

Dean Search Committee, SNRE. 2000-01.

PHD Review Committee, SNRE. 2000–01.

Sustainable Development Planning Committee, SNRE. 1998.

Search Committee, SNRE faculty. 1998-9.

Research Committee, School of Natural Resources and Environment. 1998-9
Blue Sky/Blueprint Curriculum Taskforce, Landscape Architecture Concentration. 1998.
Research Action Group, School of Natural Resources and Environment. 1997.

University of Minnesota

Search Committee, Chair of Planning Program, U of MN. 1997.
Participant, Dept. of Philosophy , U of MN, External Review. 1997.
Chair, Dean Search Committee, College of Architecture and Landscape Architecture (CALA). 1995-6.
CALA, Promotion and Tenure Committee, 1990-1997. Chair 1990,1993.
CALA, Lecture Committee, 1995-7.
Horticulture Head Review Committee 1995-6.
U of MN, Urban and Regional Planning Program Strategic Planning Group, 1995-6.
University Master Plan Steering Committee, 1992.
University McKnight Research Award Selection Committee, 1992.
Head, Department of Landscape Architecture, 1991-5.
University Senate, Representing the College of Architecture and Landscape Architecture, 1991-1993.
Chair, H.W.S.Cleveland Professor Search Committee, 1991.
Search Committee, Soils, 1990.
College Assembly Task Force on By-Laws, 1990.
Search Committee, Horticulture Department Head, 1989.
New College of Architecture and Landscape Architecture Task Force, 1988-89.
University Landscape Technical Advisory Group, 1986-1995.
Director of Graduate Studies, Landscape Architecture, 1984-88.
Chair, College Task Force on Undergraduate Honors, 1985.
Chair, College Search for Career Services Director, 1984-85.
Chair, Department Computer Committee, 1986-87.
Chair, Program Task Force on a Center for Community Studies, 1983-84.
Chair, Faculty Search Committee, 1984 and 1986.
Elected to Department Consultative Committee to the Head, 1985-87.
College Academic Enrichment and Honors Committee, 1984-87.
College Career Services Committee, 1984-86.
Undergraduate Curriculum Committee, 1982-86.

University of Illinois

College of Fine and Applied Arts (CFAA) Affirmative Action Committee.
CFFA Library Committee.
CFFA Creative and Performing Arts Scholarship Committee.
Chair, Landscape Architecture Faculty Search Committee, 1981.
Landscape Architecture Department Executive Advisory Committee, 1980-81.
Chair, Landscape Architecture Department Curriculum Review Committee, 1979.

Iowa State University

Participated in design of a five-year BLA curriculum, 1977.

Teaching

University of Michigan (1997-present)

- Redesigned and teach **Metropolitan Design studio**. 2007- present.
- Contributed to development & taught in SNRE 580 interdisciplinary core course: **Integrated Assessment**.
- Developed and taught **Landscape Ecology in Design studio**. 1997-2006.
- Developed and teach **Landscape Perception Approaches to Ecological Issues**, interdisciplinary research graduate seminar. 1998-present.
- Developed and teach SNRE/UP 576 **Ecological Approaches to Brownfield Redevelopment**,

- interdisciplinary graduate course. 1999-present
- Developed and taught **Landscape Ecology in Ecosystem Management: Giving Interdisciplinary Advice**. Interdisciplinary course for grad. students in ecology, policy, and landscape architecture. 1998- 2002.

University of Minnesota (1982-1997)

- Developed and taught **Ecological Informants of Design** studio. 1984 - 1997.
- Developed and taught interdisciplinary **Landscape Ecology and Design graduate seminar** 1992 - 1997.
- Developed interdisciplinary geographic information systems curriculum concept with an ad hoc faculty committee from Geography, Public Affairs, and Forestry. Developed and taught collaborative **Geographic Information Systems** course with Prof. Dwight Brown, Geography. 1987-91.
- Developed and taught **Regional Design studio** 1982-1993.
- Developed and taught graduate **Research Methods** course. 1982-91.
- Developed and taught LA 8330, **Concepts of Landscape Evaluation**, taught collaboratively with Prof. Marcia Eaton, Philosophy, in Phil. 5760.

University of Illinois (1978-1982)

- Developed and taught graduate and undergraduate regional design studios, graduate environmental impact assessment course, and site design studio for graduate and undergraduate students. U of IL, Urbana.

Iowa State University (1975-1978)

- Developed and taught environmental impact assessment course, regional design studio with others, site design studios, landscape theory, and graphics course. ISU, Ames.

Current Research Students, Major Advisor

Irem Daloglu, PhD (2014). Modeling stakeholder decision making. Co-advisor with Don Scavia.

Caroline Bergelin, Ayehlet Cooper, Marcus Jones, Desirae Hoffman, Fan Huang Danniell Powers Julia Raskin (2012). Environmental justice in design responses to neighborhood care dynamics in Detroit.

Past Research Students, Major Advisor

Kathryn Druback, MLA 2011 and Tina Fix, MLA 2011. Bryant Neighborhood: Ecological design opportunities for land banking to relieve stormwater management problems.

Lauren Lesch, MLA 2010. Strategies for Enhancing Carbon Sequestration and Co-Benefits in Human Dominated Landscapes.

Susan E. Westbrook, MLA 2010. Residential developers' perceptions of ecological alternatives for exurban and suburban development.

Zhifang Wang, PhD 2008. Planning for open space protection: Social values and ecological quality of open spaces.

Tao Zhang, MLA, MS 2008. Sustainable urban design scenarios in Nanchang City, China.

Michael Yun, MLA 2008. Alternative futures for abandoned properties in Detroit, Michigan.

Zhifang Wang, MLA 2008. Ecological design approaches to enhance urban habitat values.

Amy Beltemacchi, MLA, Amy Hiipakka, MLA, Yasuhiro Ishihara, MLA, Oliver Kiley, MLA, Alicia LaValle, MLA, Michael Wagman, MS, 2008. Alternative futures for the Argo Dam corridor of the Huron River. (co-advised with David Allan).

Takeaki Sato, MS. 2007. Habitat preferences of *Pefomyscus leucopus*, *Blarina brevicauda* and *Glaucomys volans* in Northern Michigan. Co-advisor with Phillip Myer.

Jennifer Dowdell, MLA, David LaClergue, MLA, Emily Marshall, MLA, Rebekah Van Wieren, MS. 2007. Alternative Futures for Sustainable Redevelopment of a Post-Industrial Brownfield Site: A Case Study in the Nation's "Vehicle City", Flint, Michigan.

Marina Alvarez, MLA, and Lorcan French, MLA. 2006. Planning for Sustainable Community-Based Ecotourism in Guatemala.

Issac Brown, MLA; Mark Dennis, MLA; Joshua Knox, MS; and Nancy Walker, MS. 2005. Interdisciplinary Masters Project. Aligning culture and ecology: landscape planning for sustainability at the Holy

- Transfiguration Skete. Interdisciplinary masters project.
- Sandra Kosek, PhD 2004. The effect of habitat patch presence and landscape scale on the perceived attractiveness of suburban residential development landscapes in the Midwest.
- Amanda Leiker, MS; Erin McDonough, MS; Amy Morrow, Rebecca Patrick, Karla Rogers, Matt Stone-Palmquist, Karen Verpeet, MLAs. 2003. Integrating Community Involvement and Ecological Systems into Open Space Brownfield Redevelopment. Interdisciplinary masters project.
- Robert C. Corry, PhD 2002. A landscape index approach to evaluating the small mammal habitat quality of designed scenarios for agricultural watersheds.
- Alejandra Chiesa, MLA 2001. Industrial landscape ecology: Design of an industrial park on a brownfield site in Calumet, Chicago, IL.
- Sandra Kosek, MLA, 2000. The influence of cultural concepts of "nature" and individual ecological knowledge on the perception of landscapes designed for ecological benefits.
- Virginia Murphy, MLA, 2000. Detroit in evolution.
- Tanya Topolewski, MLA, 2000. Cultural expectations for urban streets.
- Erez Bar-Nur, MLA, Kevin Beutell, MLA, Stacey Ebbs, MLA, Karen Lawrence, MS, Elena Sanchez, MS, Marilee Sundt, MLA. 1999. Opportunities for increasing ecological quality in an urban creekshed: An exploration of the residential landscapes and the residents of Malletts Creekshed, Michigan. Interdisciplinary masters project.
- Susan Maag, MS, 1995. Perceptions of prairie in corporate settings: A study in adaptation. U of MN.
- Robert Corry, MLA, 1994. Using landscape ecology and geographic information systems to design sustainable agricultural landscape patterns. U of MN.
- Sherri Buss, MS, 1994. Private landowner values and perceptions of rare species and natural communities in a Minnesota county. U of MN.
- Ross Martin, MLA, 1993. Suburban residents' perception of wildlife habitat patches and corridors in their neighborhoods. U of MN.
- Regina Bonsignore, MLA, 1992. Perception of stream corridors in agricultural landscapes. U of MN.
- Fred Rozumalski, MLA, 1992. Vividness in selection of plants for wetland restoration. U of MN.
- Barbara Andersen, MLA, 1990. An analysis of changes in patch and corridor characteristics as related to wildlife habitat quality in Olmsted County, Minnesota. U of MN.
- Oda Walpot, U of Wageningen, Netherlands. 1987. Study of rural landscape quality. MAST, U of MN.
- Donald E. Obernolte, Undergraduate Research Opportunities Program. 1987. Land aesthetic site design. U of MN.
- Martha M. Tyson, Academic Enrichment and Honors Program. 1986. Designing the outdoor environment: horticulture therapy in long term care facilities. U of MN.
- Theodore B. Maro, Academic Enrichment and Honors Program. 1985. Survey and computer-aided analysis of Wright County. U of MN.
- Michael Nixon, MLA, 1983. Visual analysis of a downtown mall. U of IL.
- Michael Bellinger, MLA, 1982. Exploring rural folk's understanding of the rural landscape. U of IL.
- Marilyn Benner, MLA, 1982. Visual quality evaluations of a coastal landscape with oil and gas development. U of IL.
- Nancy Johnson, MLA, 1982. Evaluation of visual composition. U of IL.
- Linda Mackey, MLA, 1982. Visual quality guidelines for oil and gas facilities in coastal areas. U of IL.
- Mark Lindhult, MLA, 1980. Let Arthur do it. A guidebook to the use of the microcomputer in landscape architecture construction. U of IL.

External Examiner

- Meredith Dobbie, PhD. 2009. Public perceptions of Victorian freshwater wetlands: preference, health, and cultural sustainability. University of Melbourne, Australia.
- Robbert Snep, PhD, 2009. Biodiversity conservation at business sites: options and opportunities. Wageningen University, The Netherlands.
- Diane Menzies, PhD, 2000. Clean and Green? Environmental quality on the dairy farm. Lincoln University, New Zealand.

Exhibitions

- Nassauer, J. I. & Faust, C. 1998. Urban Ecological Retrofit. In Eco-revelatory Design. National traveling exhibition to the Boston Architectural Center, the National Building Museum, and other sites. Curated by Brenda Brown, U of IL.
- Nassauer, J.I., & Olson-Kase T. 1995. Phalen Wetland Amenity Park. Mayor's Design Forum. St. Paul, MN.
- Nassauer, J.I. 1993-1998. Alternative Landscapes. In: Green Street Exhibition. Science Museum of MN.
- Nassauer, J.I., S. K. Robinson & K. Saccopoulos. Design Center: On Site. Brunner Gallery, Iowa State University, September, 1977.

Refereed Publications

- Wang, Z., Nassauer, J. I., Brown, D. B., Marans, R. *In Review*. Different types of open spaces and their importance to exurban homeowners. **Society and Natural Resources**.
- Nassauer, J. I. 2011. Care and stewardship: From home to planet. **Landscape and Urban Planning**. 100: 321-323.
- Nassauer, J. I., J. A. Dowdell, Z. Wang, D. McKahn, B. Chilcott, C. L. Kling and S. Secchi. 2011. Iowa farmers' responses to transformative scenarios for Corn Belt agriculture. **Journal of Soil and Water Conservation** 66:18A-24A.
- An, L., Brown, D. G., Nassauer, J. I., Low, B. 2010. Timing, Location, and Determinants of Residential-Development Types in Exurban Southeastern Michigan. **Jnl Env Mgmt**.
- Gobster, P. H., Nassauer, J. I., Nadenicek, D. 2010. *Landscape Journal* and Scholarship in Landscape Architecture: The Next 25 Years. **Landscape Journal** 29: 52-70.
- Nassauer, J. I., Wang, Z., Dayrell, E. 2009. What will the neighbors think? Cultural norms and ecological design. **Landscape and Urban Planning**. 92: 282-292.
- Zellner, M. L., S.E. Page, W. Rand, D.G. Brown, D.T. Robinson, J. I. Nassauer, B. Low. The Emergence of Zoning Policy Games in Exurban Jurisdictions. 2008. **Land Use Policy**. 26:2, pp. 356-367.
- Nassauer, J. I., and P. Opdam. 2008. Design in science: Extending the landscape ecology paradigm. **Landscape Ecology** 23: 633-644.
- Brown, D. G., Robinson, D.T. An, L., Nassauer, J.I., Zellner, M., Rand, W., Riolo, R., Page, S. E., Low, B., Wang, Z. 2008. Exurbia from the Bottom-Up: Confronting Empirical Challenges to Characterizing a Complex System. **Geoforum** 39: 818-835.
- Gobster, P. H., Nassauer, J.I., Daniel, T. C., Fry, G. 2007. The shared landscape: what does aesthetics have to do with ecology? **Landscape Ecology** 22:959-972.
- Helfand, G. E., Park J. S., Nassauer, J. I., Kosek, S. 2006. The economics of native plants in residential landscape designs. **Landscape and Urban Planning**. 78: 229-240.
- Nassauer, J. I. 2006. Landscape planning and conservation biology: Systems thinking revisited. **Conservation Biology**. 20:3: 677-678.
- Fernandez, L. E., Brown, D.G., Marans, R. W., Nassauer, J. I. 2005. Characterizing Location Preferences in an Exurban Population: Implications for Agent-Based Modeling. **Environmental Planning B** 32:799-820.
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Invited Publications

- Nassauer, J. I. 2009. Retrospect and forecast: The power of relationship. **Landscape Journal**. 28:1, pp. 117-118.
- Dowdell, J., H. Fraker, and J. Nassauer. 2005. Replacing a Shopping Center with an Ecological Neighborhood. **Places**.17:3, pp.66-68.
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Thesis

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Testimony

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Research Reports

- Nassauer, J. I., VanWieren, R. 2008. **Vacant Land: Today and Tomorrow.** Genesee County Land Bank Authority and Michigan Sea Grant, Ann Arbor, MI.
- Nassauer, J. I., VanWieren, R., Wang, Z., and Kahn, D. 2008. **Vacant Land as a Natural Asset: Enduring Land Values Created by Care and Ownership.** Genesee Institute, Flint, MI.
- Nassauer, J. I., Dayrell, E., and Wang, Z. 2006. **Perceptions of the View from the Road. Aesthetic Initiative Measurement System II: A statewide survey.** Minnesota Department of Transportation. School of Natural Resources and Environment, U of MI.
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- Nassauer, J. I., B. Halverson and S. Roos. June 1997. **Bringing Garden Amenities into Your Neighborhood: Infrastructure for Ecological Quality.** U of MN.
- Nassauer, J. I., A. Bower, K. McCardle and A. Caddock. June 1997. **The Cambridge Ecological Corridor Neighborhood: Using Ecological Patterns to Guide Urban Growth.** U of MN.
- Nassauer, J. I., and A. Bower. June 1997. **The North St. Paul Urban Ecology Center: "Hands-on" Wetland Restoration for Environmental Education.** U of MN.
- Rozumalski, F., T. Olson, and Nassauer, J. I. June 1997. **The Marshall Ecological Neighborhood: Designing the Watershed.** U of MN.
- Bonsignore, R., D. Marckel, T. Rhoades, D. Vehige, and J. I. Nassauer. June 1997. **Bassett Creek Wetland Park: Redevelopment in a Landscape of Wetland Soils.** U of MN.
- Bonsignore, R., T. Hammerberg, R. Howley, and J. I. Nassauer. June 1997. **Crystal Greenway Neighborhood: A High Amenity Mixed Use Development.** U of MN.
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- Nassauer, J.I., and K.D. Arnold. 1982. **National Survey on Career Development of Women in Landscape Architecture.** Report to the Amer. Soc. of Landscape Architects.
- Nassauer, J.I. 1981. **Visual Assessment of the Outer Continental Shelf.** Report to the Bureau of Land Management. U of IL.
- Nassauer, J. 1979. **Visual Quality Criteria for Illinois.** Report to the Soil Conservation Service. U of IL.
- Minnesota Department of Transportation . 1975. **Aesthetic Assessment of Proposed Interstate 35-E in the Metropolitan Twin Cities.**
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Reviews

- Nassauer, J. I. 2002. Review of **Merit: Ethical and Aesthetic.** In **Landscape Journal.**
- Nassauer, J. I. 1998. Review of **Wetlands of the American Midwest: A Historical Geography of Changing Attitudes.** In **Landscape Research.**
- Nassauer, J. I. 1998. Review of **The Once and Future Forest.** In **Society and Natural Resources.**
- Nassauer, J.I. 1986. Review of **The Changing Countryside.** In **Landscape Journal** 5:2.

Papers and Symposia

Invited Plenary Papers, Keynote Addresses, and Symposia

- "Revisioning the Corn Belt." Annual meeting. Iowa Environmental Council, Des Moines, Oct 2010.
- "The ecosystem services model as a basis for sustainable resource management." NSF Workshop on landscape-based cultural ecosystem services. Lunz, Austria. October 2009.
- "Using Horticulture to Build Ecosystem Health" World Congress of Ornamental Horticulture. Veracruz, Mexico. October 2009.
- "Design and Planning for Ecosystem Services." Workshop on Land Use/Land Cover Change and the

- Carbon Cycle. Ann Arbor, MI. June 2009.
- “Natural Assets and Shrinking Cities.” National Conference of the Association for Community Design. Rochester, New York. June 2009.
- “Achieving Biodiversity in Human-Dominated Landscapes” National Meeting of The Wildlife Society, Miami, Florida. Nov 2008.
- “Farmers’ Perceptions of Alternative Futures for Corn Belt Agriculture.” Hypoxia in the Gulf of Mexico: Implications and Strategies for Iowa. Leopold Center for Sustainable Ag, ISU, Ames, Iowa. Oct 2008.
- “Landscape perspectives on agricultural intensification and biodiversity.” National Research Council (NRC) Workshop on 21st Century Systems Agriculture, Washington, DC, August 2008.
- “Collaboration: Value, Capital Exchange, and Finance.” Leadership and Landscape Change symposium. Landscape Futures Initiative of the Landscape Architecture Foundation. Charleston, SC. May 2008.
- “Where in the World is the Michigan Bioeconomy? Planet from the three P’s perspective.” Sustainable Michigan Endowed Project Academy III: Sustainability and Michigan’s Bioeconomy Future. MI SU, Sept 2007.
- “Landscape Ecology of Urban Development: State of the Art.” World Congress of Landscape Ecology, Wageningen, Netherlands. July 2007.
- “Design Leverage: How Water Quality Can Elevate Quality of Life.” Uof O. McKeown Lecture. HOPES Conference. April 2007. Eugene, Oregon.
- “Future Scenarios: Monitoring Current Trends By Anticipating the Future.” Landscape Change: Learning from the past, visions for the future. Nordic Association of Agricultural Scientists, Tromso Norway. June 2006.
- “Ecological Infrastructure Across the Metropolis.” Royal New Zealand Institute of Horticulture annual meeting. Auckland. April 2006.
- “Maintaining the Wild in Metropolis.” National Wild Ones Conference. Mpls, MN September 2005.
- “Ecological design: What people like.” Plants and Hydrology in the Urban Landscape: A symposium. Chicago Botanic Gardens. June 2005.
- “Cultural Acceptance of Native Landscaping.” Native Landscaping. US EPA. Chicago, IL. Dec 2004.
- “The Globalized Landscape: Rural Landscape Change and Policy in the United States and European Union.” J. I. Nassauer and D. M. Wascher. Landscapes of Power. Landscape Architecture Foundation and U of IL, Chicago, IL Sept. 2004.
- “Messy Ecosystems, Messy World: Ethics of Order in Sustainable Landscape Design.” Nature Enhanced. Sheffield University, Sheffield, UK, June 2004.
- “Changing Agricultural Landscapes in a Global Economy: Ecological Possibilities and Aesthetic Implications.” J. Nassauer, R. Corry, and S. Kosek. Fifth International Conference on Environmental Aesthetics. Hame Polytechnic, Lepaa, Finland, Aug 2003.
- “Methodological Challenges for Defining and Measuring Agricultural Landscape Indicators.” Organization for Economic Cooperation and Development. Workshop on Agricultural Landscape Indicators. Oslo, Norway, Oct 2002.
- “Indigenous Ecosystems and Urban Landscapes: Designing New Relationships”. Annual Meeting of the Illinois chapter American Society of Landscape Architects. Chicago, June 2002.
- “Designing Urban Wetlands for Cultural Sustainability: Perceptions and Ecological Function in Urban Wetlands of the Midwest.” In Urban Wetlands: Sustaining Multiple Functions. A conference sponsored by the NSF, Oregon SU, and Portland SU. May 2002.
- “Landscape Ecology and Metropolitan Design: Cultural necessities for ecological function.” Miegunyah Distinguished University Fellow Lecture, University of Melbourne, Australia, April 2002.
- “The Messy Ecosystems Design Concept”. Messy Ecosystems, Orderly Frames. Symposium on concepts raised by my 1995 paper by that name. Greening Australia, Melbourne, April 2002.
- “New Ecologies for Cities and Farms: Helping People and the River.” Ecology Center Land Use Conference. Ann Arbor, MI. 2001.
- “Ecological Urban Design.” Landscape Architecture Student Bash. Montreal, Canada. 2001.
- “Landscape Ecological Benefits from New Agricultural Technologies and Policies: An Interdisciplinary

- Scenario Design Approach." Environment, Territory and Agriculture. International Conference sponsored by the Tech U of Lisbon, Portugal. 2000.
- "Ecological Innovation: Placing Familiar Human Expectations in New Landscape Patterns." International Conference on Riparian Ecology and Management in Multi-Land Use Watersheds. American Water Resources Association. Portland, Oregon. 2000.
- "Placing Nature in your Neighborhood." Wild Ones National Meeting. Ann Arbor, MI. August 2000.
- "Human Nature and Landscape Ecology in Urban Design." Natl Cong of the Canadian Soc of LA. Ottawa, 2000.
- "Community Pride and Ecological Quality." MN State Greening Conference. Minneapolis, MN. 1999.
- "Ecological Science and Design: A Necessary Relationship." The Shire Conference on Ecology and Design, U of O & U of W, Stevenson, Washington. 1998.
- "Landscapes for Our Children", New Zealand Institute of Landscape Architects 25th Anniversary Conference, Wellington, New Zealand. 1998.
- "Ecological Questions meet Cultural Questions." Int'l Conf. on Transformation of Ag. Landscapes, Roskilde University, Denmark. 1997.
- "The Character of Midwestern Rural Landscapes." Pathways to the Future, Blufflands Alliance, Winona, MN, 1996.
- "Open Spaces, Alternative Landscapes." Scott Arboretum of Swarthmore Coll.. Swarthmore, PA, 1996.
- "Cultural Aspects of Landscape Ecology." 9th National Symposium on Landscape Ecology, Arizona, 1994.
- "The Human Niche: Aesthetics for Ecology." National Urban Forest Conference, St. Paul, MN, 1993.
- "Planning for Biodiversity in the Suburbs." 7th Nat'l Sym on Landscape Ecology, Corvallis, Oregon. 1992.
- "Landscape Ecology: Resolving differences Between Aesthetic Conventions and Ecological Functions." Annual Meeting of the Native Plant Society. St. Paul, MN. 1991.
- "Neatness, Naturalness, and Biodiversity." Biodiversity of the Rocky Mountains. Ft. Collins, CO. 1991.
- "Landscape Structure: Perception and Ecology." Rutgers Sym.. New Brunswick, New Jersey. 1990.
- "Classifying Rural Landscapes." Midwest Preservation Conference. National Trust for Historic Preservation. St. Paul, MN. 1990.
- "The Appearance of Ecological Systems as a Matter of Policy," 5th Annual Landscape Ecology Symposium. U.S. Section International Association for Landscape Ecology. Oxford, Ohio. 1990.
- "Making Habitat Attractive to Farmers: Management Implications of Landowner Perceptions," With D.G. Pitt, PERDIX V International Partridge and Ring-necked Pheasant Workshop. Mankato, MN. 1989.
- "Mown Ditches and Prairie Remnants: Two Forms of Care," Ann Meet MN Wildlife Soc, St. Paul, MN. 1989.
- "Extending Horticulture as a Means of Landscape Care," Ann Meet Ark Hort Soc, Fort Smith, AK. 1988.
- "Care and Neatness: Aesthetics of Horticulture," Tex Frazier Lecture, Ann Meet Amer Soc of Hort Sci and Canadian Soc of Hort Sci, East Lansing. MI, 1988.

Refereed Papers and Symposia

- "Trajectories of carbon storage in low-density residential landscapes: an agent-based modeling approach to study emergence at the neighborhood scale." M. D. Hutchins, W. S. Currie, R. Riolo, J. I. Nassauer. AAG Annual Mtg., Wash. D. C. 2010.
- "Strategies for enhancing carbon sequestration in human-dominated landscapes." L. Lesch, J. I. Nassauer, and W. S. Currie. US IALE, U of Georgia, Athens, GA, April 2010.
- "Real Estate Developers' Perspectives on Ecological Design" S. E. Westbrook and J. I. Nassauer, Urban Ecology and Ecological Design: Perspectives on Integration and Future Directions, Lincoln U, Christchurch, NZ, Nov 2009.
- "Representing stakeholder perceptions and values in coupled Natural and Human Systems: Open space preferences by exurban homeowners in southeast Michigan.' Z. Wang and J. I. Nassauer. US-IALE, Snowbird, UT. March 2009.
- "Green infrastructure in brownfield redevelopment." J. I. Nassauer. Brownfield 2008. Detroit, MI. May 2008.
- "Where is culture in the landscape ecology paradigm?" J. I. Nassauer. US-IALE, Madison, WI. April

2008

- “Stakeholder science: Oxymoron or integrated perspective?” J. I. Nassauer. US-IALE, Madison, WI. April 2008
- “Retrospect and Forecast: A Panel Discussion of the First Quarter-Century of Landscape Journal.” M. E. Deming, et al. Council of Educators in Landscape Architecture. PA SU, August 2007.
- “Revealing open space preferences from mapped data for planning purposes.” Z. Wang, J. I. Nassauer, D. G. Brown. Cncl Educ LA Ann Meet, PA S U,,August 2007.
- “Ecological Design: Investigating the Aesthetic Language of Ecological Function.” J. I. Nassauer. Ecological Soc of Amer. San Jose, CA. August 2007.
- “Introduction of the spatial concept: Design as a medium for the transfer of scientific knowledge to planning and society.” J. I. Nassauer & P. Opdam. IALE World Cong, Wageningen, July 2007.
- “US federal agricultural policy in the context of world trade: Linking global change to local landscapes. J.I. Nassauer. IALE World Cong, Wageningen, July 2007.
- “Knowledge transfer from landscape science to practice and back: the role of design as an interface.”P. Opdam and J. Nassauer. IALE World Cong, Wageningen, July 2007.
- “Linking physical landscape character with open space aesthetics.” Z. Wang J. I. Nassauer, D. G. Brown. IALE World Cong, Wageningen, July 2007.
- “The effect of surrounding open spaces on participation in outdoor activities”. Z. Wang, J. Nassauer & R. Marans. EDRA38. Sacramento, May 2007.
- “Different types of open space and their importance to exurban residents”. Z. Wang, J. Nassauer, R. Marans and D. Brown. Emerging Issues-Along Urban/Rural Interfaces II. Atlanta, April 2007.
- “Understanding Exurban Landscape Change Processes: Human Preferences, Agent Behaviors and Ecological Effects.” D. G. Brown & J. I. Nassauer, Sym Co-Chairs, US-IALE 2006. San Diego, CA. April 2006.
- “The effect of neighbors and neighborhood on ecological design preferences.” J. I. Nassauer, Z. Wang, and E. Dayrell US-IALE 2006. San Diego, April 2006.
- “An expert typology of residential sprawl: validation against landcover change and market valuation. “ J.I.Nassauer, L. An, D. G. Brown, & E. Dayrell. US-IALE 2006. San Diego, April 2006.
- “An agent-based model for studying the landscape effects of exurban development.” D.G. Brown, D. T. Robinson, J.I. Nassauer, W. Rand, M. Zellner. US-IALE 2006. San Diego, April 2006.
- “Simulating large-lot residential landscape change.” G. Duh, S. Kosek-Sills, J.Nassauer, & D. G. Brown. US-IALE 2006. San Diego, April 2006.
- “Modeling Human-Landscape Interactions at Michigan's Urban-Rural Fringe.” AAAS. February 2006. D. G. Brown, S. E. Page, J. I. Nassauer, R. Riolo, B. Low, W. Rand, M. Zellner, L. An, D. Robinson.
- “Landscape Aesthetics: What’s ecology got to do with it?” P.H. Gobster, J.I. Nassauer, T. C. Daniel. Our Shared Landscape. Int’l Conf on Landscape Ecology, Aesthetics, and Economics. Swiss Institute for Technology (ETH), Ascona, Switzerland. May 2005. Inst Spatial and Landscape Plan, Swiss Federal Institute of Technology, ETH Zurich, Ascona, Switzerland, 2005.
- “Assessing the timing, location, and mechanisms of agricultural conversion to different residential landscape types in southeastern Michigan.” L. An, D. G. Brown, J. Nassauer, B. Low. US-IALE Ann Meet. 2005.
- “Exploring temporal complexity in land use-cover transitions: an approach integrating survival analysis with GIS and remote sensing images.” L. An, D. G. Brown, J. Nassauer, B. Low. Amer Assoc of Geographers Ann Meet, 2005.
- “The emergence of zoning policy games in exurban jurisdictions.” M. Zellner, S. Page, W. Rand, D. Brown, J. Nassauer, D. Robinson. Amer Assoc of Geographers Ann Meet, 2005.
- “Modeling land-use decision making by multiple actors at the urban-rural fringe.” D. Brown, M. Zellner, J. Nassauer, W. Rand, B. Low, S. Page, R. Riolo, D. Robinson. Ann Meet Int’l Geog. Union, Zurich, Switzerland. August 2004.
- “Exploring methods to link GIS-based and perceived landscape indicators of aesthetic quality.” Wang, Z. and Nassauer, J. I. US-IALE Ann Meet, Las Vegas, April 2004.
- “Exploring spatio-temporal dynamics of agricultural to residential land-use transitions using panel

- data." An,L., Brown,D.G., Nassauer,J.I., and Low, B. US-IALE Ann Meet, Las Vegas, April 2004.
- "Aesthetic Initiative Measurement System: AIMS." Larson, D. and Nassauer, J. I. Natl Transportation Research Board, Washington, D. C. January 2004.
- "Characterizing the Spatial Dynamics of Land Development in Southeastern Michigan." Brown, D. G., Fernandez, L. Nassauer, J. I., Page, S. E. Int'l LUCC Conf: Integrating knowledge on spatial dynamics in socio-econ & environ sys for spatial plan. Utrecht U, Netherlands. April 2003.
- "Exurban Residential Development: Effects on Public Perception and Water Quality." J. I. Nassauer, J. D. Allan, T. Johengen, S. Kosek, and D. Infante. Ecological Soc of Amer, Tucson, 2002.
- "The influence of scale on the perception of residential landscapes designed for ecological function." S. Kosek and J.I. Nassauer. Int'l Sym on Soc and Res Mgmt, Indiana U, Bloomington, IN, 2002.
- "Issues of scale in designing and measuring agricultural landscape scenarios." Corry, R. C. and Nassauer, J. I. US-IALE Ann Meet, Lincoln, Nebraska. April 2002.
- "Prospective future landscape scenarios: Using science to inspire policy." Nassauer, J. I., Corry, R. C., and S. Kosek. US-IALE Ann Meet, Lincoln, Nebraska. April 2002.
- "Public Perception of Ecological Approaches to Brownfield Redevelopment." J. I. Nassauer, A. Chiesa, and A. Brook. Nat'l Brownfields Conf. Chicago. 2001.
- "Using landscape pattern measurement to compare the ecological consequences of alternative plans." R. C. Corry and J. I. Nassauer, Council of Educators in Landscape Architecture Ann Meet. 2001.
- "Incorporating Land Use and Land Cover into Watershed Decision Support." D. G. Brown, J. D. Allan, G. Helfand, J. I. Nassauer, and J. Duh. Nat'l Conf on Decision Support Systems for Water Resources Mgmt. Amer Water Res Assoc & Universities Cncl on Water Res. Snowbird, UT. 2001.
- "A GIS-based spatial model of cultural landscape preferences for alternative agricultural landscape scenarios." J. I. Nassauer and R. C. Corry. US-IALE Ann Meet. 2001
- "Scale Influences on the Perception of Landscapes Designed for Ecological Function." S. Kosek and J. I. Nassauer. US-IALE Ann Meet 2001.
- "Modeling Landscape Scale Effects of Site Scale Design Innovation." D. G. Brown and J.I. Nassauer. Workshop on Landscape Change. Nat'l Center for GIS. Santa Barbara, CA. 2001.
- "Designing and testing new Corn Belt agricultural landscape patterns within a cultural factors framework." R. C. Corry and J. I. Nassauer. Cncl Educ LA Ann Meet, Guelph, Ontario. 2000.
- "Using precision agriculture to enhance landscape structure in a Corn Belt agricultural watershed." R. C. Corry, and J. I. Nassauer. In Robert, P. C., R. H. Rust, and W. E. Larson (editors), Precision Agriculture: Proc of the 4th Int'l Conf, St Paul, MN. American Society of Agronomy, Crop Science Society of America, Soil Science Soc Amer. Pp 547-557. 1999.
- "Precision agriculture technologies and future landscape structures" R. C. Corry, R. M. Cruse, and J. I. Nassauer. IALE World Cong. Snowmass, Colorado. 1999.
- "Culturally Sustainable Approaches to Achieving Ecological Goals", IALE World Cong. Snowmass, CO. 1999.
- "Normative Scenarios: Expert Disciplines and Inventive Visions", J. I. Nassauer, R. C. Corry, D. Hellekson, and J. Musumeci. IALE World Cong. Snowmass, CO. 1999.
- "Pride and Stewardship", Int'l Assoc for Applied Psychology. San Francisco, Ca., 1998.
- "Using Precision Agriculture to Enhance Landscape Structure in a Corn Belt Agricultural Watershed." R. C. Corry and J. I. Nassauer. 4th Int'l Conf on Precision Ag, U of MN, St. Paul, MN, 1998.
- "Disciplinary Views of Nature" J. Musumeci, J. I. Nassauer, and R. C. Corry. 7th Int'l Sym on Soc & Res Mgmt. U of Missouri, Columbia, Missouri, 1998.
- "Modeling effects of alternative landscape design and management on water quality and biodiversity in Midwest agricultural watersheds." Poster. J. Nassauer, et al. US-IALE. MSU, East Lansing, MI. 1998.
- "Greenway Design Principles" K. Haider and J. Nassauer. Amer Soc Civil Eng Ann Meet, Mpls MN, 1997.
- "Phalen Chain of Lakes Watershed Project: A Successful Community-Based Initiative." S. A. Buss & J. Nassauer. Soil and Water Conservation Soc, Ann Conf, Toronto, Canada, July 1997.
- "Retrofitting the Urban Framework to Build Ecological Structure", US-IALE, Duke U, NC, 1997.

- "Teaching Ecology in Landscape Architecture Programs", panelist. US-IALE, Duke U, NC, 1997.
- "Stepping Stone Landscape Ecology for Settled Landscapes", in Riparian Ecology and Alternative Shoreland Landscaping. N Amer Lake Mgmt Soc. Minneapolis, MN, 1996.
- "Juxtaposing Landscape Values with Scientific Knowledge", in Bio-Resource Education: Giving Meaning to the Sciences of Life. AAAS Ann Meet. Baltimore, Maryland, 1996.
- "The Effects of Attitudes, Entrepreneurial Style, Social influences and Visual Perception on the Adoption of Agricultural Stewardship Practices By Minnesota Farmland Owners. M. Jackson, D. Pitt, & J. Nassauer. Cncl Educ LA Ann Meet. 1996.
- "Cultural Aspects of Landscape Ecology", Session organizer & chair, IALE World Congress, Toulouse, France, 1995.
- "The Effects of Environmental Attitudes and Beliefs, Entrepreneurial Style and Social Systems Influences on the Adoption of Sustainable Agricultural Land Management Practice Systems by Minnesota Farmland Owners." M. Jackson, D. Pitt, & J. Nassauer. US-IALE Minneapolis, MN, 1995.
- "Public Perceptions of Restored Environments," in a workshop: Restoring Urban Recreation Opportunities. Int'l Outdoor Rec & Tourism Trends, St. Paul, MN, 1995.
- "Perception of the Ecosystem Function of Suburban Residential Sites." N Amer Sym of Soc and Resource Mgmt. Madison, Wisconsin. 1992.
- "Perception of Wildlife and Habitat in Suburban Residential Settings." J.I. Nassauer & R. Martin. N Amer Sym of Society and Resource Mgmt. Madison, Wisconsin. May 1992.
- "The Relationship of Landscape Perception to Adoption of Sustainable Agricultural Practices." J. I. Nassauer and D. Pitt. N Amer Sym of Soc and Resource Mgmt. Madison, WI 1992.
- "Aesthetics for Future Agricultural and Land Policy." Aesthetics and Ethics of Conservation. Nat'l Meet Soil and Water Conservation Soc Amer. Lexington, Kentucky. 1991.
- "Tension Among Farmers' Perceptions of Neatness, Productivity, and Ecological Quality." In colloquium: Implications of Social Perceptions for Landscape Integrity. IALE World Congress. Ottawa, CA 1992.
- "Using Design to Reveal the Intention of Agricultural Conservation." ASLA Ann Meet. San Diego. 1990.
- "Community Perceptions of Habitat." Midwest Fish & Wildlife Meet, Mpls. MN 1990.
- "Workshop on Using Image Capture Technology to Generate Wilderness Management Solutions." D. Lime, D. Pitt, R. Chenoweth & J. Nassauer. Nat'l Wilderness Conf. Minneapolis, MN 1990.
- "The Use of Image Capture Technology and Geographic Information Systems to Integrate Landscape Values into Public Policy: Six Case Studies." D. Pitt & J. Nassauer. ASLA Ann Meet, Orlando, FL, 1989.
- "The Intention to Show Care in Landscape Management," First Int'l Conf on Cultural Aspects of Landscape Ecology. Baarn, The Netherlands, 1989.
- "The Use of Aesthetic Terms". In a plenary session: A Critical Analysis of Research Approaches for Capturing Landscape Experience. Ann Conf of the Council of Educators in LA, FL. 1989.
- "An Application of Landscape Ecology in Rural Landscape Planning." In Landscape Ecology: Policy Implications and Effects. West Lakes Ann Meet, Ass of Amer Geog, St. Paul, MN, 1988.
- "Perceptions of Agricultural Landscapes as a Management Factor," Ann Sym Ecol & Ag, U of M, St. Paul. 1988.
- "Landscape Ecology as a criterion for Agricultural Land Management," J. Nassauer & B. Perry. Ann Sym Ecol & Ag, U of MN, St. Paul. 1988.
- "The Implications of a Hierarchical Visual System for Perception and Management of the Landscape," US-IALE Ann Meet, Albuquerque, NM. 1988.
- "Landscape Corridors: Structure and Function," AAAS Annual Meeting, Boston, MA. 1988.
- "Farmer's Perceptions of Landscape Care as a Component of Conservation Systems," ASAE Ann Meet, Chicago. 1987.
- "Neatness as an Expression of Landscape Care Among Rural Residents," US-IALE Ann Meet, Charlottesville, VA. 1987.
- "Landscape Architecture in the Rural Landscape," ASLA Ann Meet. San Francisco. 1986.
- "Perception of the Changing Rural Landscape," J. Nassauer, R. B. Riley, S. Wiedemann, and E. Zube.

- Environmental Design Research Association Ann Meet. Atlanta. 1986.
- "Farmers' Progressiveness as a Factor in the Loss of Landscape Heterogeneity," J. Nassauer & R. Westmacott. The Role of Landscape Heterogeneity in the Spread of Disturbance, Inst of Ecology, UGA, Athens. GA. 1986.
- "Rural Landscape Perceptions," J.Nassauer & S.Wiedemann. Cncl Educ LA Ann Meet. Urbana, IL. 1985.
- "A Visual Quality Model for the Illinois Countryside," Cncl Educ LA Ann Meet. Madison. 1980.

Selected Invited Lectures

- "Alternative futures for Iowa agriculture: Science to advance policy and action" Center for Energy & Environmental Education University of Northern Iowa Cedar Falls, Iowa, Oct 2010.
- "Interdisciplinary teaching on environmental issues in graduate professional programs." Michigan-China University Leadership Forum panel. May 2010.
- "Using case-based pedagogies to provoke interdisciplinary innovations." Provost's Seminar on Teaching Sustainability, University of Michigan. May 2010.
- "Cultural avenues for building sustainable communities." University of Idaho and Washington State Universities. Coeur d'Alene, Idaho. March 2010.
- "Brownfield redevelopment ecological design opportunities." Prosperous Places Michigan Higher Education Land Policy (MIHELP) Consortium, East Lansing, Michigan, March 2010.
- "National Academy of Environmental Design" Landscape Architecture Brown Bag. February 2010.
- "Land banking" In: Landscape Planning for the 21st Century: Paradigms, Practices & Projects for the 21st Century, Harvard University Graduate School of Design. Boston, Mass. October 2009.
- "Natural assets approach to land banking." Washtenaw County Board of Commissioners. August 2009.
- "A natural assets approach to managing vacant property." National Land Bank Conference. Traverse City, MI. May 2009.
- "Ecological design as a basis for science and action." LEAP lecture series. U of IL Chicago. October 2008.
- "Ecological design across the changing metropolis." Cleveland Museum of Natural History, Explorer Series. Oct 2008.
- "Alternative futures for Corn Belt agriculture: Societal and environmental implications." Elton R. Smith Distinguished Lecture, Michigan SU, April 2008.
- "Alternative futures for farmland: Mitigating the Gulf Dead Zone." Clean Water Caucus, Memphis, TN. Feb 2008.
- "Beauty Matters." Inaugural "Last lecture" invited by the School of Natural Resources and Environment Student Government, U of MI. Jan 2008.
- "Vacant Land as a Natural Asset." Genesee County Land Bank symposium. Flint, MI. December 2007.
- "Cues to care: Designing ecological health into metropolitan landscapes." Conway School of Design and New England Wildflower Society, Conway, MA. October 2007.
- "Ecological and Community Benefits of Greenways." Allen Creek Greenway Taskforce Public Lecture. Ann Arbor, MI, April 2006.
- "Normative scenarios for landscape ecology." Nat'l Inst Water & Atmospheric Research, Hamilton, NZ, March 2006.
- "Helping communities engage in landscape change." New Zealand Institute of Landscape Architects Ann Meet. Wellington, NZ, March 2006.
- "A home in the country: the cultural effects of residential sprawl." Christchurch Art Gallery: Montana Series. Christchurch, NZ. March 2006.
- "Interdisciplinary research to develop alternative future scenarios." Iowa SU, Ames, Iowa. Dec 2005.
- "Cultural and economic benefits of green retrofits." Green Makeover – Retrofitting Sites in Urban Areas Conference. US EPA, Milwaukee, WI. October 2005.
- "AIMS: Monitoring approaches to context sensitive design." Joan I. Nassauer and D. Larson. FHA Regional Conference on Context Sensitive Design. St. Paul, MN. August 2005.
- "Landscape Ecology in Green Design." J. I. Nassauer. Clemson U Design Workshop: Green Health Clinic. Clemson, SC Jan 2005.
- "Cultural Sustainability in Urban Design." U of Arizona Dept of LA, Tucson, AZ 2004.
- "Messy Ecosystems, Messy Cities: the Ethics of Neatness in Urban Ecological Design." Beatrix Farrand

- Lecture. U of California, Berkeley, CA.2003.
- "Using Landscape Ecology in Urban Design." Stanley White Lecture. U of Illinois, Urbana, 2002.
- "Applying Landscape Ecology to Brownfield and Greenfield Planning: Contrasts in Urban Design." Chicago Academy of Sciences. Chicago, 2001.
- "Landscape Ecology as the Basis for Design." Frank Waugh Lecture. U Mass, Amherst, 2001.
- "Landscape Ecology Critique for the New Urbanism." Nat'l Acad Sym on New Urbanism. U of MI, Ann Arbor, 2001.
- "Placing Nature in the City." Michigan Botanical Soc, Ann Arbor, MI, 2001.
- "Landscape Ecological Design Approaches to Urban Design." Instituto Superio de Agronomia, Lisbon, Portugal, 2000.
- "Placing Nature and Landscape Ecology." Kansai Forestry Institute, Kyoto, Japan, 2000.
- "Policy Implications of Scenario Design " Kansai Forestry Institute, Kyoto, Japan, 2000
- " Cultural Sustainability and Retrofitting the City." Uof California, Berkeley, CA, 2000.
- "Managing Land Use: Ecological Design and Policy." NASA Land Use and Landcover Changing Landscapes of Rural America Symposium. Yellowstone National Park, 2000.
- "Pride and Landscape: What You Show and What You Know." Morgan SU, Baltimore, MD, 2000.
- "Agricultural Watershed Scenario Design." Environmental Protection Agency, Chicago, IL, 1999.
- "Urban Stepping Stone Landscape Ecology." SE Oakland County Water Authority, Royal Oak, MI, 1999.
- "Urban Ecological Retrofit." The Boston Architectural Center, Boston, Mass, 1999.
- "Pride and Stewardship in the City." Cornell University, Ithaca, NY, 1998.
- "Yard and Neighborhood Rainwater Gardens." Fleming Creek Advisory Board, Ann Arbor, MI, 1998.
- "Constructing New Ecologies." UNITEC, Auckland, New Zealand, 1998.
- "Using Urban Infrastructure to Create Ecological Amenity". City of Christchurch, New Zealand, 1998.
- "Cultural Frameworks for Design". Lincoln University, Lincoln, New Zealand, 1998.
- "The Disciplines and the Professions: a panel discussion." College of Arch and LA Lecture Series, U of MN, Minneapolis, 1997.
- "Rural Landscape Quality and Landscape Ecology." Vice-Provost's Taskforce on Iowa Futures, ISU, Ames, Iowa, 1997.
- "Stepping Stone Landscape Ecology," MN Dept Nat Res, Pollution Control Agency, and Dept Ag. 1996.
- "Urban Landscape Ecology," Hubert H. Humphrey Institute Advisory Board, U MN, 1996.
- "Landscape Designs that Improve Ecological Quality," Dakota County Environmental Education, 1996.
- "Making a Place for Nature," CALA Workshop Series. U of MN 1996.
- "Environmental Public Art", panelist. Public Art St. Paul, 1996.
- "Indigenous Aesthetics Meet Indigenous Ecologies," Arch & LA, North Dakota SU. 1996.
- "Earth Care and Constructed Ecosystems," NSP Environmental Academy for Educators, Mpls. 1995.
- "Renewing the American Landscape." MN Extension Service Ann Conf. Rochester, MN. 1995.
- "Messy Ecosystems, Orderly Frames," Bracken Lecture Series. Penn SU. 1994.
- "Ecological Quality in Settled Landscapes," Dept. of LA, Uof Guelph, Ontario, 1994.
- "Biodiversity in the Urban Environment," Joining the Arts and Environment Lecture Series, Cincinnati , Ohio, 1994.
- "Landscape Ecology and the Minnesota River Basin," Minnesota River Implementation Project, MN PCA, 1993.
- "Ecosystem Function and Landscape Experience: Implications for a Design Curriculum." College of Architecture and Landscape Architecture Lecture Series. U of MN. 1992.
- "The Acceptance of Ecological Planting," in Biodiversity in the Landscape, MN Landscape Arboretum, 1992.
- "Food, Land and People in the 21st Century - A Landscape Ecology Perspective," MN Food Assoc Ann Meet. St. Paul, 1992.
- "Enhancing Conservation Commitment," USDA Soil Conservation Service National Headquarters Seminar. Washington, D. C. 1990.
- "The Evolution of Aesthetic Conservation Research," USDA Soil Conservation Service National Headquarters Seminar. Washington, D. C. 1990.
- "Community Perceptions of Aesthetics and Sustainable Agriculture," Sustain Ag Seminar, U of MN. 1990.

"Aesthetics and Rural Landscape Management," LA Program, Virginia Tech, Blacksburg, VA. 1989.
 "Perception of Vernacular Landscapes," Graduate Liberal Studies Program, Hamline U, St. Paul. 1987.
 "Neatness and Conservation: Farmers Look at the Rural Landscape," Seminar Series. Dept of Agronomy and Plant Genetics, U of MN. 1987.
 "Rural Landscapes: Perception and Management," Center for Design Research Seminar, Uof CA Davis. 1987.
 "Rural Landscapes as Design Models," LA Program, U of California, Davis. 1987.
 "So, What's the Big Idea?" with Robert Nassauer. MN Chapt Nat'l Soc of Performance & Instruction. St. Paul, MN. 1986.
 "A Functional Landscape Aesthetic," Coffee Hour Lectures. Dept of Geography, U of MN. 1986.
 "Perceptions of the Countryside Landscape," LA Bash, Natl LA Students' Meet. Ames, Iowa. 1984.
 "Aesthetic Qualities in the Countryside Landscape," Horticulture Industries Conference. St. Paul. 1983.
 "Visual Assessment: Coursework in the Department of Landscape Architecture, U IL" Bureau of Land Management Computer Graphics Workshop. Denver. 1980.

Selected Consultancies

Transportation Research Board. 2010-11. NCHRP 25-33 Review of National Methodology for Visual Impact Assessment. With Avenue Design. 2009- present.
 Genesee Institute. 2007. A metropolitan landscape typology for managing development of varied land uses and landscape legacies.
 City of Chicago, 2002. Rainwater gardens to retrofit 19th century neighborhoods.
 Smith Group/JJR. 2001. Highway aesthetic perceptions instrument for local communities. State of Michigan.
 US Environmental Protection Agency. 2000. Multidisciplinary approaches for watershed management. Chicago, IL.
 Minnesota State Department of Transportation. 1999-2001. Aesthetic initiatives measurement system for Minnesota roads.
 The Land Institute. 1999. Siting an interdisciplinary perennial agriculture research institute. Salina, KS
 City of St. Paul, MN. 1997. Design of an urban wetland park.
 Carleton College, MN. 1997. Landscape ecology in a campus plan.
 Historic Bluff Country, MN. 1995 - 1997. Common Visions: A process to maintain the rural character of Fillmore and Houston Counties.
 Itasca County Planning Commission, MN. 1991. Strategies for managing shoreland ecosystems with development.
 Greater Orlando Airport Commission, FL. 1989. Master plan for a 1600 acre wildlife habitat park.

Selected Descriptions of Work

Power, Matthew. Motown Revival? **On earth.** May 25, 2011.
 Sipes, James. Here, There, and Everywhere. **Landscape Architecture Magazine.** December 2009.
 Graham, Marty. More changes that help conserve water at home. **Los Angeles Times.** March 23, 2008.
 Kristen, Chris. Stemming the Flow of Nitrate to the Gulf. **Water, Environment, and Technology.** 19:9. September 2007.
<http://www.wef.org/ScienceTechnologyResources/Publications/WET/07Sep/07SeptemberNews.htm>
 Lubick, Naomi. Using nature's design to stem urban stormwater problems. **Environmental Science and Technology.** October 4, 2006.
 Williams, Dean. Landscape ecology and landscape architecture. **Our Changing World,** Radio New Zealand, May 11, 2006.
Cambell Live. Ecological Design. New Zealand TV 3, April 2006.
 Levine, Alexis. Profile: A Great Lakes Rain Garden. 2006. **Dam Nation: Dispatches from the Water Underground.**
 Low, N., Gleeson, B., Green, R., and Radovic, D. 2005. **The Green City. Sustainable Homes, Sustainable**

- Suburbs.** UNSW Press. 247 pp.
- National Association of Home Builders. **Green Home Building Guidelines. User Guide to Lot Design, Preparation and Construction.** www.nahbrc.org/greenguidelines/userguide_lot_design.html 2004.
- Rueter, Anne. Escaping city, sans sprawl. **Ann Arbor News.** August 24, 2003. pp. E1-2.
- Landsbygdens Folk.** August 15, 2003. Estetiskt tilltalande odlingslandskap blir allt viktigare. Vol. 33:57, p. 7.
- Hager, Mary Catherine. Low-Impact Development. **Stormwater.** January/February 2003. 4:1, pp. 12 – 25.
- Turner, M. G., R. Gardner, R., and R. O'Neill. 2001. **Landscape Ecology in Theory and Practice.** Springer-Verlag.
- Hair, Marty. On the wild side: A gentler type of sprawl. **Detroit Free Press.** October 14, 2001.
- Delcourt, Paul and Hazel. 2001. **Boomers on the Brink: Ten Strategies for Living Well in the Greenhouse World.** Chelsea Green Publishers.
- Journal of the Japanese Institute of Landscape Architecture.** 2000. Interview with Joan Nassauer: Future Perspective of Landscape Ecology for Integrating Nature and Culture. 64:2, pp. 107-112.
- McClure, Susan. 1999. **Midwest Landscape Design.** Working in Harmony with the Environment. Taylor Publishing, Dallas, TX. pp. 1-42.
- USA Today Magazine.** April 1, 1999. Growing Wild Without Bugging Neighbors.
- Hennessey, David. 1999. Full-Circle Development – Shopping Center to Wetland. In **Big River.** 7:1, 1-3.
- Saayer-Fay, Rebecca. 1998. Beauty Underfoot. In **Country Living.** August 1998. pp. 52-56.
- Hagstrom, Jim G. 1998. In Search of the Natural Landscape. In **Arboretum News.** 17:3. pp. 1-6.
- Sinnacher, Betsey. 1998. Landscaping for the Birds in **Dallas Morning News,** Feb. 6, 1998.
- Mercer, Cheryl, 1997. **Garden Design in the United States,** Harper Collins, New York.
- Yaffee, Steven L., et al, 1996. **Ecosystem Management in the United States**, Island Press, Wash., D. C. pp. 231-232.
- Estabrooks, Ellie Mae. 1996. Phalen Wetland Restoration in **Environmental Journal,** videotape produced by Media Rare.
- Otis, Denise. 1996. Suburban strategies, in **Garden Design**. June/July, p. 19-20.
- Mack, Linda. 1995. Joan Nassauer, Reading Cultural Cues in **Landscape Architecture** 85:5, p. 52.
- Ahern, Jack. 1995. Plans Across the Watershed in **Landscape Architecture** 85:4, pp. 54 -57.
- Hulse, David. 1995. Of Science, Sprawl, and Salmon in **Landscape Architecture** 85:4, pp. 58-61.
- Pease, Mike. 1995. Sustainable Communities: What's going on Here? in **Places** 9:3, pp. 50-69.
- Fischer, Adelheid. 1993. Ecological By Design. **Utne Reader,** No. 58. pp. 44-47.
- Fischer, Adelheid. 1993. Aesthetic Conservation. **Artpaper.** February pp.12-13.
- LaVigne, Pamela. 1992. Rural is Beautiful. **Update.** February. pp. 8-10.
- Kaibel, Elizabeth. 1991. Up Close: Landscape Architect Joan Nassauer. **Architecture Minnesota** 17:2.
- Carlson, Jon. 1990. A Conservation Ethic. WCCO television education series. Minneapolis, MN.
- Mack, Linda. 1990. Academic Assemblage. **Landscape Architecture** 80:9.
- Harris, Marcia. 1986. Beauty is Defined in the Eyes of the Beholder. **AgWeek.** April.