

**CURRICULUM VITAE
DANIEL W. SCHNEIDER**

Department of Urban and Regional Planning,
University of Illinois at Urbana-Champaign
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Education

Ph.D. (Zoology; minor subject, Entomology), 1990, University of Wisconsin-Madison, Madison, Wisconsin.

M.S. (Zoology), 1986, University of Wisconsin-Madison, Madison, Wisconsin.

B.A. (Environmental Science), 1981, Wesleyan University, Middletown, Connecticut.

Organization for Tropical Studies, Tropical Biology--An Ecological Approach, 1985, in Costa Rica.

Additional studies in hydrology, ecology and environmental science at University of Oregon (1980) and University of Minnesota, Itasca Biological Station (1981).

Professional Appointments

Professor, Department of Urban and Regional Planning, University of Illinois at Urbana-Champaign, 2006- present.

Levenick iSEE Teaching Sustainability Fellow, University of Illinois at Urbana-Champaign, 2020.

Faculty Program Administrator, Bachelor of Science in Sustainable Design, College of Fine and Applied Arts, University of Illinois at Urbana-Champaign, 2019-present

Affiliate in Program in Ecology, Evolution and Conservation Biology and Department of Entomology, University of Illinois at Urbana-Champaign.

Professor, Department of History, University of Illinois at Urbana-Champaign, 2019- present.

Interim Head, Department of Urban and Regional Planning, University of Illinois at Urbana-Champaign, 2017-2018.

Professional Scientist, Illinois Natural History Survey, 2006-2017.

Interim Head, Department of Landscape Architecture, University of Illinois at Urbana-Champaign, 2013-2014.

Interim Head, Department of Urban and Regional Planning, University of Illinois at Urbana-Champaign, 2012-2013.

Visiting Scholar, Science Technology and Society Center, and Office for the History of Science and Technology, University of California, Berkeley, 2006-2007.

Associate, Center for Advanced Study, University of Illinois at Urbana-Champaign, 2006-2007.

Visiting Scholar, Department of Integrative Biology, University of California, Berkeley, 1999-2000.

Associate Professor, Department of Urban and Regional Planning, University of Illinois at Urbana-Champaign, 1998-2006.

Coordinator, Environmental Fellows Program, Environmental Council, University of Illinois at Urbana-Champaign, 1998-2002.

Associate Professional Scientist, Center for Aquatic Ecology and Conservation, Illinois Natural History Survey, 1997-2006.

Assistant Professor, Department of Urban and Regional Planning, University of Illinois at Urbana-Champaign, 1992-1998.

Assistant Professional Scientist, Center for Aquatic Ecology and Conservation, Illinois Natural History Survey, 1992-1997.

Postdoctoral Fellow, Department of Geography and Environmental Engineering, The Johns Hopkins University, 1991-1992.

Assistant Researcher, Center for Limnology, University of Wisconsin-Madison, 1990-1991.

Instructor, Department of Zoology, University of Wisconsin-Madison, 1990.

Legislative Assistant, American Rivers Conservation Council (now American Rivers), Washington, D.C. 1983.

Conservation Intern, Water Resources Program, National Wildlife Federation, Washington, D.C. 1982.

Intern, American Rivers Conservation Council (now American Rivers), Washington, D.C. 1982.

Eastern States Office, U.S. Bureau of Land Management, Alexandria, Virginia. 1979.

Academic Awards and Fellowships

George Perkins Marsh Prize, American Society for Environmental History, for best book in environmental history, 2013.

Associate, Center for Advanced Study, University of Illinois at Urbana-Champaign, 2006-2007.

Faculty Award for Excellence, College of Fine and Applied Arts, University of Illinois at Urbana-Champaign, 2003-2004.

Derek Price-Rod Webster Prize, History of Science Society, for outstanding article in the previous three years in the journal *Isis*, 2002.

List of Teachers Ranked as Excellent, University of Illinois at Urbana-Champaign, 1996.

Dean's Assigned Fellow, University of Wisconsin-Madison, 1989-1990.

John Jefferson Davis Fund Fellowship, Department of Zoology, 1988-1989.

Anna Grant Birge Fellowship, Center for Limnology, 1986-1988.

Wisconsin Alumni Research Foundation Fellowship, 1983-1984.

Phi Beta Kappa, 1981.

Publications

Books

Daniel Schneider, *Hybrid Nature: Sewage Treatment and the Contradictions of the Industrial Ecosystem* (Cambridge: The MIT Press, 2011) 338 pp. Winner of 2013 George Perkins Marsh Prize, ASEH.

Journal Articles

McLafferty, S, D. Schneider, K Abelt. 2020. Placing volunteered geographic health information: Socio-spatial bias in 311 bed bug report data for New York City. *Health and Place*: in press. Available online 8 January 2020, 102282

Schneider, D. 2019. They're back. Municipal responses to the resurgence of bed bug infestations. *Journal of the American Planning Association*. 85(2):96-113.

Honey-Rosés, J., N. Brozovic, and D.W. Schneider. 2014. Changing ecosystem service values following technological change. *Environmental Management*. 53(6):1146-1157 .

Schneider, D. 2014. Who invented activated sludge? *Environmental Engineer and Scientist* 50:8-11.

Braden, J, M.C. Jolejole-Foreman, and D.W. Schneider. 2013. Humans and the Water Environment: The Need for Coordinated Data Collection. *Water* 6:1-16.

Honey-Rosés, J., V. Acuña, M. Bardina, N. Brozovic, R. Marcé, A. Munné, S. Sabater, M. Termes, F. Valero, À. Vega and D.W. Schneider. 2013. Identifying the demand for ecosystem services: the value of stream restoration for drinking water treatment managers in the Llobregat River, Spain. *Ecological Economics* 90:196-205.

Daniel W. Schneider, 2008. Savoirs locaux, politiques de l'environnement et développement de l'écologie aux États-Unis: les travaux de Stephen Forbes sur «le lac comme microcosme» (1887), *Cosmopolitique*, 17:19-46. (Translation by John Stewart of Schneider, D.W. 2000. Local Knowledge, Environmental Politics and the Founding of Ecology in the United States: Stephen Forbes and 'The Lake as a Microcosm' (1887). *Isis* 91:681-705)

Schneider, D.W. 2006. Process control as ecosystem management: Using the history of sewage treatment plants to analyze ecosystem management practices. *Ecosystems* 9:1156-1169.

Schneider, D.W. 2005. Environmental history and ecosystem management. *Environmental History* 10:93-94.

Stoeckel, J.A., D.K. Padilla, D.W. Schneider, and C.R. Rehmman. 2004. Laboratory culture of *Dreissena polymorpha* (Pallas, 1771) larvae: spawning success, adult fecundity, and larval mortality patterns. *Canadian Journal of Zoology* 82:1436-1443

Carr, M.L., C.R. Rehmman, J.A. Stoeckel, D.K. Padilla and D.W. Schneider. 2004. Measurements and consequences of retention in a side embayment in a tidal river. *Journal of Marine Systems* 49:41-53.

Stoeckel, J.A., C.R. Rehmman, D.W. Schneider and D. K. Padilla. 2004. Retention and supply of zebra mussel larvae in a large river system: importance of an upstream lake. *Freshwater Biology* 49:919-930.

Schneider, D.W., J.A. Stoeckel, C.R. Rehmman, K. D. Blodgett, R. E. Sparks, D. K. Padilla. 2003. A developmental bottleneck in dispersing larvae: implications for spatial population dynamics. *Ecology Letters* 6:352-360.

Rehmman, C.R., J.A. Stoeckel, and D.W. Schneider. 2003. Effect of turbulence on the mortality of zebra mussel veligers. *Canadian Journal of Zoology* 81:1063-1069.

Henne, L.J., D.W. Schneider, and L.M. Martinez. 2002. Rapid Assessment of Organic Pollution in a West-central Mexican River Using a Family-level Biotic Index. *Environmental Planning and Management* 45:613-632.

Schneider, D.W. 2000. Local Knowledge, Environmental Politics and the Founding of Ecology in the United States: Stephen Forbes and 'The Lake as a Microcosm' (1887). *Isis* 91:681-705. Winner of the Derek Price-Rod Webster Prize of the History of Science Society, 2002.

Schneider, D.W., S.P. Madon, J.A. Stoeckel, and R.E. Sparks. 1998. Seston quality controls zebra mussel (*Dreissena polymorpha*) energetics in turbid rivers. *Oecologia* 117:331-341

Elderkin, C. L., D.W. Schneider, J.A. Stoeckel, and D.K. Padilla. 1998. A method for measuring *in situ* respiration rates of freshwater gastropods. *Journal of the North American Benthological Society* 17:338-347.

Madon, S.P., D.W. Schneider, J.A. Stoeckel, and R.E. Sparks. 1998. *In situ* determination of zebra mussel metabolic rates using the electron transport system (ETS) enzyme assay: field applications. *Journal of Shellfish Research* 17:195-203.

Schneider, D.W., C.D. Ellis and K.S. Cummings. 1998. A transportation model assessment of the risk to native mussel communities from zebra mussel spread. *Conservation Biology* 12:788-800.

Madon, S.P., D.W. Schneider, J.A. Stoeckel, and R.E. Sparks. 1998. Effects of inorganic sediment and food concentrations on energetic processes of the zebra mussel, *Dreissena polymorpha*: Implications for growth in turbid rivers. *Canadian Journal of Fisheries and Aquatic Sciences* 55:401-413.

Schneider, D.W. 1997. Predation and food web structure along a habitat duration gradient. *Oecologia*. 110:567-575.

Stoeckel, J.A., D.W. Schneider, L.A. Soeken, K.D. Blodgett and R.E. Sparks. 1997. Propagule dynamics of a riverine metapopulation: Implications for zebra mussel recruitment, dispersal and control in a large-river system. *Journal of the North American Benthological Society* 16:586-601.

Schneider, D.W. 1996. Effects of European settlement and land use on patterns of similarity of Chesapeake forests. *Bulletin of the Torrey Botanical Club* 123:223-239.

Schneider, D.W. 1996. Enclosing the floodplain: Resource conflict on the Illinois River, 1880-1920. *Environmental History* 1(2):70-96.

Schneider, D.W. and T.M. Frost. 1996. Habitat duration and community structure in temporary ponds. *Journal of the North American Benthological Society* 15:64-86.

Padilla, D.K., K. Cottingham, S.C. Adolph, D.W. Schneider. 1996. Predicting the consequences of dreissenid mussels on a pelagic food web. *Ecological Modelling* 85:129-144.

Young, B.L., D.K. Padilla, D.W. Schneider, and S.L. Hewett. 1996. The importance of size-frequency relationships for predicting ecological impact of zebra mussel populations. *Hydrobiologia* 332:151-158.

Schneider, D.W. and J. Lyons. 1993. Dynamics of upstream migration in two species of tropical freshwater snails. *Journal of the North American Benthological Society* 12:3-16.

Schneider, D.W. 1992. A bioenergetics model of zebra mussel, *Dreissena polymorpha*, growth in the Great Lakes. *Canadian Journal of Fisheries and Aquatic Sciences* 49:1406-1416.

Schneider, D.W. 1990. Direct assessment of the independent effects of exploitative and interference competition between *Daphnia* and rotifers. *Limnology and Oceanography* 35:916-922.

Lyons, J. and D.W. Schneider. 1990. Factors influencing fish distribution and community structure in a small coastal river in southwestern Costa Rica. *Hydrobiologia*, 203:1-14.

Schneider, D.W. and T.M. Frost, 1986. Massive upstream migrations by a tropical freshwater neritid snail. *Hydrobiologia* 137:153-157.

Book Chapters

D.W. Schneider, 2013. Reprint of “Local Knowledge, Environmental Politics and the Founding of Ecology in the United States: Stephen Forbes and ‘The Lake as a Microcosm’ (1887),” pgs. 9-33 in Sally Gregory Kohlstedt and David Kaiser (eds.), *Science and the American Century: Perspectives on Science, Technology, and Medicine*, University of Chicago Press.

D.W. Schneider. 2012. “Purification or Profit: Milwaukee and the Contradictions of Sludge,” in Stephanie Foote and Elizabeth Mazzolini, *Histories of the Dustheap: Waste, Material Cultures, Social Justice*. The MIT Press.

Burkhardt, Jr., R.W. and D.W. Schneider. 2004. Stephen A. Forbes: The intricate interrelations of living things. Pgs. 55-68 in: L. Hoddeson (ed.). *No Boundaries: University of Illinois Vignettes*. University of Illinois Press.

Sparks, R.E., J.B. Braden, M. Demissie, P. Mitra, D.W. Schneider, D.C. White and R. Xia. 2000. Technical support of public decisions to restore floodplain ecosystems: A status report on the Illinois River project, USA. Pgs. 225-247 in: A.J.M. Smits, P.H. Nienhuis and R.S.E.W. Leuven (eds.). *New approaches to river management*. Backhuys Publishers.

Schneider, D.W. 1999. Snow-melt ponds in Wisconsin. Influence of hydroperiod on invertebrate community structure. Pgs. 299-318 in: D. P. Batzer, R.B. Rader and S.A. Wissinger (eds). *Invertebrates in freshwater wetlands of North America: Ecology and management*. J. Wiley.

Kohler, S.L., D. Corti, M.C. Slamecka and D.W. Schneider. 1999. Prairie floodplain ponds. Mechanisms affecting invertebrate community structure. Pgs. 711-730 in: D. P. Batzer, R.B. Rader and S.A. Wissinger (eds). *Invertebrates in freshwater wetlands of North America: Ecology and management*. J. Wiley.

Book Reviews

Schneider, D.W. 2013. Review of Peter Baccini and Paul H. Brunner, *Metabolism of the Anthroposphere: Analysis, Evaluation, Design, 2nd ed.* *Journal of Planning Education and Research*, 33:497-499.

Schneider, D.W., 2009. Review of David L. Strayer, *Freshwater Mussel Ecology: A Multifactor Approach to Distribution and Abundance*. *Quarterly Review of Biology* 84:209.

Schneider, D.W. 2005. Rivers and their environmental history. *Ecology* 86:2257-2258.

Schneider, D.W. 2002. Review of Blake Gumprecht, *The Los Angeles River: Its Life, Death, and Possible Rebirth*. *Journal of the American Planning Association* 68:330-331.

Schneider, D.W. 1999. Review of Ann. L. Riley, *Restoring Streams in Cities: A Guide for Planners, Policymakers, and Citizens*. *Journal of the American Planning Association* 65:234-235.

Schneider, D.W. 1998. Review of Stephen Bocking, *Ecologists and Environmental Politics: A History of Contemporary Ecology*. *Environmental History* 3:546-547.

Schneider, D.W. 1996. Review of Richard White, *The Organic Machine* and Daniel Botkin, *Our Natural History*. *Journal of Planning Education and Research* 16:68-70.

Reports, Proceedings, Other Publications

Schneider, D. 2020. Tools for the Trade: They're back. *Planning Magazine*. January 2020: 15-17.

Schneider, D.W. (ed.). 2008. Letters of Stephen A. Forbes to Clara Forbes. In Michael R. Jeffords, Susan L. Post and Charles Warwick, *Biologists in the Field*. Illinois Natural History Survey—Survey Educational Material 02.

Schneider, D.W. and G. Sandiford. 2004. Riverine Systems. In James R. Grossman, Ann Durkin Keating, and Janice L. Reiff (eds.) *The Encyclopedia of Chicago*. University of Chicago Press.

Schneider, D.W. 2000. Backwater lakes: History shows their value to Illinois. *Wetland Matters* 5(1):1-13.

Ellis, C. D., D. W. Schneider, 2000. "Predicting the Spread of Zebra Mussels (*Dreissena polymorpha*) in Illinois Lakes and Streams." *4th International Conference on Integrating GIS and Environmental Modeling Conference Proceedings*.

Islam, M., J.B. Braden, D.C. White, R.L. Hirschi, E. DeVuyst, M. Demissie, R. Xia, P. Mitra, D. Schneider and R.E. Sparks. 1997. Strategic renewal of large floodplain rivers. *Proceedings of the AERE Workshop, The Economic Analysis of Ecosystems*.

Ellis, C.D., D.W. Schneider, D.M. Johnston. 1996. Integrating technology and the community: Landscape process models, GIS representation, and process support interfaces as agents for collaborative landscape planning. *Proceedings of the Council of Educators in Landscape Architecture* 96:101-112

Schneider, D.W. and Students of UP 348. 1995. Comprehensive planning assistance for the Mackinaw River watershed. Final report to The Nature Conservancy. Department of Urban and Regional Planning, University of Illinois at Urbana-Champaign, Urbana.

Schneider, D.W. 1995. Water quality standards for wetlands: A policy analysis and guide for Illinois. Center for Aquatic Ecology, Technical Report 94/8, Illinois Natural History Survey, Champaign.

Schneider, D.W. and J.E. Marsden. 1994. Zebra mussels and Lake Michigan snails. *Illinois Natural History Survey Reports*, no. 328:2.

Simon, S., M. Morris, and D. Schneider. 1994. Effects of hydrology and water chemistry on wetland vegetation zones. *Illinois Natural History Survey Reports*, no. 330:5.

Research Grants

National Socio-Environmental Synthesis Center (SESYNC). PI. "Pursuit: The Socio-Spatial Ecology of the Bed Bug and its Control." 2017-2019. (Michael Z. Levy, co-PI). Approximately \$64,000.

National Socio-Environmental Synthesis Center (SESYNC). PI. "Workshop: The Socio-Spatial Ecology of the Bed Bug and its Control." 2016. (Michael Z. Levy, co-PI). Approximately \$14,000.

University of Illinois Campus Research Board. PI. "The Socio-Spatial Ecology of the Bed Bug (*Cimex lectularius*) and its Control." 2016-2017. \$22,485. (Sara McLafferty, Co-PI).

University of Illinois Campus Research Board. PI. "Institutional Basis for Providing Alternative Sewage Infrastructure in Growing Indian Megacities," 2014-2015. \$23,083 (written with PhD student Shruti Syal).

FAA Creative Research Awards. PI. "Identity in the Industrial Ecosystem: The Bacterial Species Concept in Practice," 2012, \$4,367.

National Science Foundation. Senior Personnel. "Coupled Observation of the Water Environment: A National Survey Program," 2010-2012, \$148,850. (J. Braden, D. Brown PI's).

Illinois-Indiana Sea Grant College Program. PI. "Using Ecological Theory of Alternate Stable States to Improve Sewage Treatment Plant Operation; Seed Grant," 2010-2011. \$9,958. (A. Kent, UIUC, co-PI).

FAA Creative Research Award. PI. "Sewage Treatment Plants as Model Systems for Investigating Abrupt Ecosystem Change," 2010, \$3,500.

National Science Foundation. PI. "Treating sewage: Technology, science, labor and law in an industrial ecosystem." 2006-2007. \$94,824.

University of Illinois Campus Research Board. PI. "Identifying ecological thresholds and alternate stable states in an industrial ecosystem". 2006-2007. \$8,571.

National Great Rivers Research and Education Center. PI. "Evaluating the risk of transfer of aquatic nuisance species by watercraft between the Great Lakes and Mississippi River Basins." 2005-2006. \$23,590

National Oceanic and Atmospheric Administration. PI. "Population dynamics of the zebra mussel (*Dreissena polymorpha*) in the Hudson River: settlement and post-settlement processes." 2004-2006. \$40,000. (Funding for H. Wood).

University of Illinois Campus Research Board. PI. "Public and private science: Biological sewage treatment and the conflict over patents, 1900-1940". 2004-2005. \$13,800.

Illinois Environmental Protection Trust Fund. PI. "Evaluating the transfer, dynamics and risk of spread of aquatic nuisance species by water craft in the Chicago Sanitary & Ship Canal." 2004-2005. \$23,000.

Rockefeller Archive Center, PI. "Sewage treatment as ecosystem management: Sanitary engineers, ecological science, and the craft knowledge of sewage treatment plant operators." 2003-2004. \$2,500.

University of Illinois Water Resources Center. Co-PI. "Evaluation of a Scheme to Control Invasive Species in the Chicago Sanitary and Ship Canal," 2002. \$14,994. (C.R. Rehmann Co-PI).

National Sea Grant College Program. Co-PI. "Aquatic Nuisance Species. Metapopulation Dynamics and Control of the Zebra Mussel in Freshwater and Estuarine Systems: The Effects of Hydrodynamics, Larval Supply, and Embayments" 2001-2003. \$300,000. (D.K. Padilla, PI. C.R. Rehmann, J.A. Stoeckel, Co-PI's).

University of Illinois Campus Research Board. PI. "Sewage treatment as ecosystem management: Ecology, engineering and the craft knowledge of sewage treatment plant operators". 2001. \$1,800.

National Science Foundation/Environmental Protection Agency Partnership for Environmental Research, Co-PI. "Strategic Renewal of Large Floodplain Rivers: Integrated Analysis". 1999-2002. \$795,000. (J. Braden, R. Sparks, PI).

National Sea Grant College Program. PI. "The Role of Larval Growth, Mortality and Transport in Metapopulation Dynamics and Control of the Zebra Mussel in Freshwater and Estuarine Systems. 1999-2001. \$250,000. (C.R. Rehmann, J.A. Stoeckel, R.E. Sparks and D.K. Padilla, Co-PI's).

Illinois-Indiana Sea Grant College Program. Co-PI, "Predicting Transport of Zebra Mussels in Rivers and Estuaries. 2000-2002. \$96,371. (C.R. Rehmann, PI; D.K. Padilla, Co-PI)

University of Illinois Campus Research Board. PI. "Carp, Culture, and a Century of Exotic Species Introductions: An Environmental History". 1999-2000. \$10,550.

University of Illinois Campus Research Board. PI. "Strategic Renewal of Large Floodplain Rivers: Integrated Analysis." 1998-1999. \$5,154.

National Sea Grant College Program. PI, "A Model of the Lake Michigan-Illinois River Zebra Mussel Metapopulation: Evaluating possible control strategies." 1997-1999. \$183,589. (R. Sparks, K. Blodgett and J. Stoeckel, co-PI's).

National Sea Grant College Program. Co-PI. "Degradation and Restoration of Lake Michigan: Past and Future of Nonindigenous Species." 1997-1999. \$201,047. (D. Lodge, PI; R. Sparks and J. Marsden, Co-PI's)

University of Illinois Campus Research Board. PI. "A Model of the Lake Michigan-Illinois River Zebra Mussel Metapopulation: Evaluating Possible Control Strategies." 1997. \$10,958.

University of Illinois Campus Research Board. PI. "Social Conflict, Local Knowledge and the Development of River Ecology." 1996. \$5,211.

Council on Food and Agricultural Research. Co-PI, "Watershed Sustainable Development." 1996-1998. \$132,185. (J. Braden, PI; R. Cook, R. Hornbaker, J. Vining, K. McDermaid, G. McIsaac, S. Kohler, D. White, Co-PI's).

University of Illinois Campus Research Board. PI. "Development of a Community-based Water Quality Monitoring Program, Ayuquila Watershed, Jalisco, Mexico". 1995-1996. \$14,000.

Illinois Department of Conservation, Co-PI. "Development of GIS for Natural Resources and Recreational Facilities." 1995-1996. \$80,000. (D.M. Johnston, PI).

University of Illinois Critical Research Initiatives, Co-PI. "Research Program on the Restoration of River Ecosystems." 1995. \$10,000. (J. Braden, PI; E. DeVuyst, R. Hornbaker, G. Knaap, R. Sparks, B.C. Yen, co-PI's).

National Oceanographic and Atmospheric Administration, Sea Grant Institute. P.I. "Population and energetic consequences of zebra mussel fouling on native gastropod fauna of Lake Michigan". 1994-1997. \$128,097. (J. Ellen Marsden Co-PI).

U.S. Environmental Protection Agency. PI. "A bioenergetics model of zebra mussels in rivers". 1994-1996. \$224,490. (R.E. Sparks and S.P. Madon, co-PI's).

University of Illinois Campus Research Board. PI. "The Role of Levees in the Ecology and Restoration of Floodplain Wetlands". 1994-1995. \$17,475.

Illinois Department of Conservation PI. "Development of GIS for Natural Resources and Recreational Facilities." 1994-1995. \$80,000.

University of Illinois Campus Research Board. PI. "A study of resource conflict surrounding the Illinois River Levee System, 1895-1930." 1994. \$7,291.

Illinois Environmental Protection Agency. PI. "Water quality guidelines for wetlands". 1993-1994.

\$80,000.

U.S. Environmental Protection Agency, Co-PI. "A bioenergetics model of zebra mussels in rivers". 1992-1994. \$275,510. (Richard E. Sparks, PI).

Instructional Grants

Institute for Sustainability, Energy and Environment (iSEE), University of Illinois. Levenick iSEE Teaching Sustainability Fellowship. Development of a course FAA 230, Sustainable Design of the Built Environment." 2020. \$2000.

Lumpkin Family Foundation. A Collaborative Effort to Plan for Cleaner Water in the Little Wabash River Watershed. UP 456, Sustainable Planning Workshop. 2020. \$12,585.

The Environmental Council, University of Illinois. PI, with Rachel Schurman. "Development of a course 'Food and the Environment' for the Environmental Scholars Program." 1999. \$9,306.

U.S. Department of Education, Fund for the Improvement of Postsecondary Education, Co-PI (T. Yuill, M. Moss, E. Santana, PI's; F. Villaseñor, and A. Nash, co-PI's). "Watershed Management: Developing Strategies for Sustainability". 1996-1999. \$101,216 (U.S. portion).

Midwest University Consortium on International Affairs. PI, with L. Hopkins. "Development of a Student Exchange Program in Planning and Conservation--Universities of Illinois and Guadalajara". 1996. \$600.

Office of the Provost, Undergraduate Course Development Grant. PI. "Development of Ecological Case Studies for Planning Instruction". 1995. \$3,100.

The Nature Conservancy, Central Illinois Field Office. PI. "Workshop to Develop a Comprehensive Watershed Plan for the Protection and Restoration of the Mackinaw River". 1995. \$14,181.

Invited Presentations

"Urban Ecology: Integrating Society and Nature in the Study of Urban Environments," Lecture series at Ambedkar University, Delhi, November 13-19, 2016, through Global Initiative of Academic Networks.

"The Socio-Spatial Ecology of the Bed bug, *Cimex lectularius*," Doctoral Program in City, Territory and Sustainability, School of Art, Architecture and Design, University of Guadalajara, March 3, 2015.

"The Hybrid Nature of Cities," Doctoral Program in City, Territory and Sustainability, School of Art, Architecture and Design, University of Guadalajara, March 4, 2015.

"Monopolizing 'Nature's Means and Methods': Sewage Treatment, Patents, and the Foundations of Modern Biotechnology," *Historians Among Us* lecture, UIUC Department of History, April 16, 2014.

“Purification or Profit: Sewage Recycling and the Contradictions of Sludge,” Joint Area Centers Symposium: The Future of Waste, University of Illinois at Urbana-Champaign, 2013.

“Methodological Issues Involved in Analyzing Water Data and Social Data,” Workshop on Coupled Observation of the Water Environment: A National Survey Program, Wingspread Conference Center, Racine, 2011.

“Using Metapopulation Theory to Control Invasive Species,” Manantlán Institute for Ecology and Conservation of Biodiversity, University of Guadalajara, Centro Universitario Costa del Sur, Autlan, 2009.

“Urban Ecological Footprint: Funnel or Maelstrom?” Mexican Society for the Study of the City, Region and Sustainability (SOMECHITES), Guadalajara, 2009.

“Implications of Sewage Treatment Plants for Ecosystem Management,” Doctoral Program in City, Territory and Sustainability, School of Art, Architecture and Design, University of Guadalajara, 2009.

Department of Fisheries and Wildlife, Michigan State University, “Managing Industrial Ecosystems: Implications of Sewage Treatment Plants for Ecosystem Management,” 2007

Romberg-Tiburon Center for Environmental Studies, San Francisco State University, “Using Metapopulation Theory to Control Invasive Species: The Zebra Mussel in River and Estuarine Ecosystems,” Tiburon, 2007.

Science Technology and Society Center and Office for the History of Science and Technology, University of California, Berkeley. “Public vs. Private Science: Biological Sewage Treatment and the Struggle Over Patents, 1896-1937,” Berkeley, 2006.

American History Teachers’ Collaborative, Urbana School District. “Isaac’s Storm.” Urbana, 2006

Illinois Wesleyan University. “Science, Technology and the Role of the Worker in an Industrial Ecosystem: The Story of Sewage Treatment, 1914-present.” Bloomington, 2006.

Centre for the History of Science, Technology and Medicine, University of Manchester, U.K. “Treating Sewage: Technology, science, labor and law in an industrial ecosystem, 1900-1940.” Manchester, 2005.

Schneider, D.W. “Woodland vernal pool invertebrates: an overview.” The Wildlife Society, Burlington, 2003.

Schneider, D.W. “Controlling the spread of zebra mussels in inland lakes and rivers.” North American Lake Management Society, Madison, 2001.

State University of New York at Stony Brook, “Can zebra mussels be a model for evaluating marine metapopulation dynamics?” Stony Brook, 1999.

Schneider, D.W., R.E. Sparks, K.D. Blodgett, and J.A. Stoeckel, J. A. "Metapopulation Approaches to the Lotic-Lentic Linkage: Zebra mussels in the connected waters of Lake Michigan and the Illinois River." North American Benthological Society, Prince Edward Island, 1998.

University of Illinois at Urbana-Champaign, Program in Science, Technology, Information and Medicine, "A 'working knowledge' of nature: Fishermen, scientists and the political context of ecology on the Illinois River, 1880-1920," 1997.

University of California-Berkeley, "Ecology of zebra mussels in large river ecosystems," 1996

University of California-Berkeley, "Enclosing the Floodplain: Resource Conflict, Local Knowledge and the Development of Ecology on the Illinois River, 1880-1920," 1996.

Wright State University, "Ecology of zebra mussels in large river ecosystems," Dayton, 1996.

Northwestern University, "Science and community organization for water quality protection," Evanston, 1996.

U.S. EPA, Duluth; U.S. Fish and Wildlife Service, LaCrosse, "A bioenergetic analysis of zebra mussel growth and consumption in the Great Lakes," 1991

Courses Taught

University of Illinois at Urbana-Champaign.

UP 205 Ecology and Environmental Sustainability, 1993-1994, 1996-1997, 1999, 2001-2006, 2008-2020

UP 348 Environmental Planning Workshop

Comprehensive Watershed Plan for the Protection and Restoration of the Mackinaw River 1995

Mega-Hog Farms and the Industrialization of Farming in Illinois 1998

Site Plan for the Lake of the Woods Forest Preserve 2004

UP 405 Watershed Ecology and Planning, 1992-1994, 1996-1998, 2000, 2003, 2005, 2008-2010, 2012-2018

UP 406 Urban Ecology, 2002, 2004, 2008, 2010, 2015, 2017, 2019

UP 456 Sustainable Planning Workshop,

Bed bugs in Champaign-Urbana 2018

Watershed Plan for Salt Creek 2020

UP 483 Historical Ecology of Human Settlements, 1996

UP 494 History of Land Use and Ecological Change, 1994

HIST 160 Comparative Environmental History--People Crops and Capital (team-taught), 1998, 2000

ENVS 350 Environmental Studies Workshop

Campus Environment 2002

Food and the Environment 2003

Municipalization of Water Supply 2004, 2009

Natural Disasters 2005

Management of Farm Drainage 2006

University of Wisconsin-Madison

Zoology 315 Limnology-Conservation of Aquatic Resources, 1990.

Students Supervised

PhD Students

Vinisha Singh Basnet, Ph.D. in Regional Planning. In progress.

Shruti Syal, Ph.D. in Regional Planning, 2019. Dissertation: A Socio-Ecological Systems Perspective on Planning for Informality. Currently Visiting Assistant Professor, University of Colorado, Denver.

Helen Wood, Ph.D. in Ecology, Evolution and Conservation Biology, 2013. Dissertation: “Post-settlement processes and early life history dynamics of zebra mussels (*Dreissena polymorpha*) in the Hudson River estuary.” Currently Environmental Monitoring Officer, Environment Agency, U.K.

Jordi Honey-Rosés, Ph.D. in Regional Planning, 2012. Dissertation: “Ecosystem services in planning practice for urban and technologically advanced landscapes.” Currently Associate Professor, School of Community and Regional Planning, University of British Columbia.

Glenn Sandiford, Ph.D. in Regional Planning, 2009. Dissertation: “Transforming an exotic species: 19th century narratives of carp introduction in the United States.”

Lisa Henne, Ph.D. in Regional Planning, 2002. Dissertation: “Power and science in participatory watershed planning: a case study from rural Mexico.” Currently practicing in water resources law, New Mexico.

Masters in Urban Planning (MUP) Students

Karin Hodgins Jones, MUP 2016, “Electronics Recycling: Estimating E-scrap in Illinois Counties for Improved Collection Strategies for the State”.

Dominique Gilbert, MUP 2016, “Recycling Wood from the Urban Forest”.

Holly Nelson, MUP 2012, “Central High School Relocation Study”.

Jessica Henry, MUP 2011, “How to Build a Rain Garden Program in Champaign.”

Ramya Bavikatte, MUP 2000. “Fusing the best elements of centrally and collectively managed irrigation institutions.”

Perry Eckhardt, MUP 1998. “Environmental planning for large-scale confined animal feeding operations.”

Roberta Farrell, MUP 1998. “An assessment of potential contaminant sources in the Copper Slough

watershed and recommendations for the city of Champaign, Illinois.”

Paromita Mitra, MUP 1997. “Floodplain forest growth simulation: A study of the Illinois River floodplain forests.”

Nancy Taafe, MUP 1996. “A Proposed Comprehensive Management Plan for Aquatic Nuisance Species for the State of Illinois”

Lisa Henne, MUP 1996. “Development of a Community-based Biological Monitoring Program for the Ayuquila River, Jalisco, Mexico: a Preliminary Study”

Jody Rendziak, MUP 1995. “The Mackinaw River Farm Operator Study: Influences of Farm Size, Tenancy, and the River on Operator Attitudes”

Lisa Gifford, Ken Pabich, Cynthia Herdrich, MUP 1993. “A Habitat Establishment and Management Plan for a Reach of the Upper Embarrass River”

Postdoctoral Advisees:

Sharook Madon, PhD, Ohio State University, 1993-1995, now at CH2M, San Diego, CA

Foreign Languages

Spanish

Public Service in Environmental Planning

Citizens’ Advisory Committee, Champaign County Forest Preserve District, 2003–2006

The Nature Conservancy, Science Advisory Committee, Emiquon Floodplain Restoration Project, 2000

The Nature Conservancy, Spunky Bottoms Science Advisory Team, 1998

Task Force on the Management of Environmentally Contaminated Sites, City of Champaign, 1997

Environmental Advisory Commission, City of Champaign, 1996

Illinois River Planning Committee, Office of the Lieutenant Governor, State of Illinois, 1996

Ecological and Economic Advisory Committee on the Illinois River, Office of the Lieutenant Governor, State of Illinois, 1994-1995

Scientific Advisory Committee on the Mackinaw River, The Nature Conservancy, 1994

Planning Committee for the 3rd Governor's Conference on the Illinois River, State of Illinois, 1993

Board of Directors, Wisconsin Coordinating Council on Nicaragua, 1990-1991

Founder and coordinator of “Solidarity in Limnology” a limnological exchange program between Nicaragua and Wisconsin, 1985-1991.

Professional Service

Peer Review of grant proposals, reports, articles, books: National Research Council, National Science Foundation, Sea Grant, Austrian Funds of Science, University of Illinois Press, Cambridge University

Press, MIT Press, Polity Press, *American Midland Naturalist*, *Annals of Regional Science*, *Biological Invasions*, *Biotropica*, *Canadian Journal of Fisheries and Aquatic Sciences*, *Communication Review*, *Ecology*, *Ecological Applications*, *Environmental History*, *Environmental Research*, *Environmental Science and Technology*, *Functional Ecology*, *Hydrobiologia*, *International Journal of Environment and Waste Management*, *Isis*, *Journal of Environmental Planning and Management*, *Journal of Environmental Quality*, *Journal of Historical Geography*, *Journal of Molluscan Studies*, *Journal of Planning History*, *Journal of Planning Literature*, *Journal of the North American Benthological Society*, *Limnology and Oceanography*, *Oecologia*, *PLOS ONE*, *PNAS*, *Regulated Rivers*, *Wetlands*, *Wetlands Ecology and Management*

Editorial Board, *Journal of Planning Literature*, 2005–

Editorial Board, *Land*, 2011–

Grant Review Panel Member, National Science Foundation, Environmental Protection Agency

University Service

Campus:

Urbana-Champaign Faculty/Student Senate, 2001-2003, 2007-2008

Coordinator, Environmental Fellows Program, 1998-2002

Steering Committee, Human Dimensions of Environmental Systems Program, 2004-2005

University of Illinois Delegate to Universities Council on Water Resources, 1997-

Faculty Member, Program in Ecology, Evolution and Conservation Biology

Core Faculty Member, Program in Science, Technology, Information, and Medicine (STIM)

Core Faculty Member, Center for Latin American and Caribbean Studies

Participating Faculty Member, Human Dimensions of Environmental Systems Program

Member, Water Council, Institute for Sustainability, Energy, and Environment

College of Fine and Applied Arts:

Faculty Program Administrator, Bachelor of Science in Sustainable Design, 2019-present

Ad hoc committee to develop a Bachelor of Science in Sustainable Design degree, chair, 2017-2019

Administrative Council, 2012-2014, 2017-2018

Promotion and Tenure Committee, 2008-12, 2014-17, 2018-19, Chair 2011-2012, 2015-2017

Executive Committee, 2007-2009, 2012

Diversity Committee, 2004

Equal Employment Opportunity Committee, 2002-2003, 2007-2008, Chair, 2003-2006

Lorado Taft Lecture Committee, 1996-1999, 2016-2017

Elections & Credentials Committee, 1997-1999, Chair, 2000-2001

Academic Disciplinary Committee, 1995-1996

Department of Urban and Regional Planning:

Associate Head, 2011-2012

BAUP Program Chair, 2009-2010

PhD Program Coordinator, 2007– 2009

Promotion and Tenure Committee, 1998-2012, 2013-2017, 2018- Chair 2011-2012, 2014, 2016-2017

Speaker Committee, 1997-2002

Executive Advisory Committee, 1996-1997, 2002-2004, 2007-2011, 2015-2016, 2018-2019 Chair 2010-2011

PhD Admissions Committee, 1994-2006, 2015-2017, 2018-
Curriculum Committee, 1992-1994

Illinois Natural History Survey:

Senior Management Team, 2008-2012, 2014-2017

Seminar Committee, 2005-2007

Library Committee, 1998-1999

Collections Committee, 1995-1997

Program in Ecology, Evolution and Conservation Biology:

Graduate Committee, 2004-2005