

RESUME

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MICHAEL J. WILEY

School of Natural Resources and Environment, University of Michigan.
Professor of Aquatic Ecology

EDUCATION

B.G.S.	1973	University of Michigan (LSA)
M.S.	1976	University of Michigan (SNR)
Ph.D	1980	University of Michigan (SNR)

PROFESSIONAL EXPERIENCE

Present

Research in aquatic community ecology, fisheries, benthic invertebrates, river ecosystems and management. Primary funding from USGS, USEPA, GLFT, NSF, MDNR

1987-2002

Assistant & Associate Professor,
School of Natural Resources and Environment, Univ. of Michigan.

1980-87

Assistant & Associate Professional Ecologist, Illinois Natural History Survey
Champaign, Illinois: Assistant Professor, University of Illinois.

COURSES:

Aquatic Entomology, Fluvial Ecosystems, Intro to River5s, Lakes & Wetlands, River Modeling Seminar, Ecology: Science of context and Interactions, Intro to Natural Resource Planning and Management, Habitats and Organisms, Great Lakes Field Methods, Philosophy of Ecology, Stream Ecology, Issues in Ecological Restoration

AWARDS:

Program in the Environment Faculty Teaching Award 2004
Theodore Roosevelt Professor of Ecosystem Management 2008-2013
Michigan Chapter American Fisheries Society: Justin Leonard Award for Professional Achievement 2011

External Boards and Committees

Core Team member, Great Lakes Commission River Mouth Collaboratory, 2009-2012
Huron River Watershed Council SAP- Technical Advisory Committee 1991-2012
Muskegon Watershed Assembly SAP- Technical Advisory Committee 2004-2012

Member, (1991-1994) National Research Council's
Committee to review EPA's Environmental Monitoring and Assessment Program
Member, (1996) National Research Council's
Committee on Research Opportunities and Priorities for EPA
UNO Program Review Team in Conservation Biology

External Review Committee, Louisiana Board of Regents 1998
Washtenaw County Natural Areas Technical Advisory Committee 2001-2007
Miller Creek Technical Advisory Committee 2002-2004
Allan Creek Technical Advisory Committee 2002-2004
MDEQ State-Wide Phosphorus Advisory Board 2006-2007

Publications:

Peer reviewed journals and book chapters

1. Wiley, M. J. and S. C. Mozley. 1978. Pelagic occurrences of benthic animals in Lake Michigan. *J. Great Lakes Res.* 4(2):201-205.
2. Wiley, M. J. 1978. The biology of some Michigan trout stream chironomids (Diptera: Chironomidae). *Mich. Academ.* 11(2):193-209.
3. Wiley, M. J. and S. L. Kohler. 1980. Positioning changes of mayfly nymphs due to the behavioral regulation of oxygen consumption. *Can. J. Zool.* 58:618-622.
4. Wiley, M. J. 1981. Interacting influences of sediment preferences and density on the emigration rates of some trout stream chironomid larvae (Diptera: Chironomidae). *Ecology* 62(2):426-438.
5. Wiley, M. J. and S. L. Kohler. 1981. An assessment of biotic interactions in an epilithic community using time-lapse macrocinematography. *Hydrobiol.* 78:183-188.
6. Wiley, M. J. 1981. An analysis of factors influencing successful penetration of sediments by chironomid larvae (Diptera: Chironomidae). *Oikos* 36:296-302.
7. Wiley, M. J., R. W. Gorden, S. W. Waite, and T. Powless. 1984. The relationship between aquatic macrophyte density and sport fish production in Illinois ponds: a simple model. *N. American J. Fish. Manage.* 1984(2):112-119.
8. Wiley, M. J. and S. L. Kohler. 1984. Behavioral adaptations of aquatic insects. In: V. Resh and D. Rosenberg (eds.) *The Ecology of Aquatic Insects*. Praeger Press, CBS Inc., New York. 638 pp.
9. Wiley, M. J., S. M. Pescatelli and L. D. Wike. 1986. The relationship between feeding preferences and consumption rates in grass carp and grass carp X bighead carp hybrids. *J. of Fish Biology* 29(4):507-514.
10. Wiley, M. J. and L. D. Wike. 1986. Energy balances of diploid, triploid and hybrid grass carp. *Trans. Amer. Fish. Soc.* 115(6):853-863.

11. Paragamian, V. L. and M. J. Wiley. 1988. Effects of variable stream flows on growth of smallmouth bass in the Maquoketa River, Iowa. *North American J. of Fisheries Management* 7(3):357-362.
12. Osborne, L. L. and M. J. Wiley. 1988. Empirical relationships between land use/cover and stream water quality in an agricultural watershed. *J. Environmental Management* 26: 9-27.
13. Osborne, L. L., M. J. Wiley and R. W. Larimore. 1988. Assessment of the water surface profile model: accuracy of predicted in stream fish habitat conditions in low-gradient, warm water streams. *Regulated Rivers: Research and Management*. Vol 2, 619-631.
14. Munn, M. D., L. L. Osborne and M. J. Wiley. 1989. Factors influencing periphyton growth in agricultural streams of central Illinois. *Hydrobiologia*: 174:89-97.
15. Wiley, M. J., L. L. Osborne and R. W. Larimore. 1990. Longitudinal structure of an agriculturally developed prairie river system and its relationship to current stream ecosystem theory. *Can. J. Fish. Aquat. Sci.* 47:373-384.
16. Wiley, M. J. and G. L. Warren. 1992. Territory abandonment, resource theft, and territory recycling: a foraging strategy for hard times. *Oikos* 63:495-505.
17. Osborne, L.L. and M.J. Wiley. 1992. The influence of tributary spatial position on the structure of warmwater fish communities. *Can. J. Fish. Aquat. Sci.* 49(4):671-681.
18. Kwak, T.K, M.J. Wiley, L.L. Osborne and R.W. Larimore. 1992. The application of diel feeding chronology to habitat suitability analysis of waterwater stream fishes. *Can. J. Fish. Aquat. Sci.* 49(7):1417-1430.
19. Haro, R.J. and M.J. Wiley. 1992. Secondary consumers and thermal equilibrium hypothesis: insights from Michigan Spring Brooks. *Proceedings of the First International Conference on Ground Water Ecology, Tampa FL. USEPA.* pp 179-188.
20. Kohler, S.L. and M. J. Wiley. 1992. Epizootic collapse of a dominant Trichopteran grazer in Michigan trout streams. *Oikos* 65:443-449
21. Osborne, L.L. S.L. Kohler, P.B. Bayley, D. Day, W. Bertrand, M.J. Wiley and R. Saur. 1992. Influence of stream spatial location in a drainage network on the Index of Biotic Integrity. *Transaction Amer. Fish. Soc. Transaction Amer. Fish. Soc.* 121:635-643.

22. Haro, R.J., K. Edly, and M.J. Wiley. 1994. Body Size and sex ratio in emergent stonefly nymphs (*Isogenoides olivaceus* : Perlodidae): Variation between cohorts and populations. *Canadian Journal of Zoology* 72:1371-1375.
23. Tompkins, T., W. Whipps, L. Manor, M.J. Wiley, C. Radcliffe and D. Majewski. 1997. Wetland effects on hydrological and water quality characteristics of a mid-Michigan river system. IN: Trettin et al, Eds. Northern forested wetlands: ecology and management, Chapter 19. CRC Press Inc. Boca Raton FL.
24. Kohler, S.L. and M.J. Wiley. 1997. Pathogen Outbreaks reveal large-scale effects of competition in stream communities. *Ecology* 87(7): 2164-2176
25. Wiley, M.J., S.L. Kohler and P.W. Seelbach. 1997. Reconciling landscape and site based views of stream communities. *Freshwater Biology* 37:133-148.
26. Baker, M.E., M.J. Wiley, and P.W. Seelbach. 2001. GIS-based hydrologic modeling of riparian areas: implications for stream water quality. 2001. *Journal of the American Water Resources Association* 37(6): 1615-1628.
27. Seelbach, P.W., M.J. Wiley, P.A. Soranno, and M.T. Bremigan. 2002. Aquatic conservation planning: Using landscape maps to predict ecological reference conditions for specific waters. Chapter 24. in: Gutzwiller, K., Editor. *Concepts and applications of landscape ecology in biological conservation*. Springer-Verlag, New York, NY.
28. Zorn, T. G., P. W. Seelbach, and M. J. Wiley. 2002. Distributions of Stream Fishes and their relationship to stream size and hydrology in Michigan's Lower Peninsula. *Transactions of the American Fisheries Society* 131:70-85.
29. Wiley, Michael J., Paul W. Seelbach, Kevin Wehrly, and Joan Martin. 2003. Regional ecological normalization using linear models: a meta-method for scaling stream assessment indicators. Chapter 12 in: T.P. Simon, Ed., *Biological Response signatures: indicator patterns using aquatic communities*. CRC Press Lewis Publishers Inc. Boca Raton.
30. Wehrly, K. E., M. J. Wiley and P. W. Seelbach. 2003. Classifying Regional Variation in thermal regime based on stream fish community patterns. *Transactions of the American Fisheries Society* 132:18-32
31. Wang, L., J. Lyons, P. Rasmussen, P. Seelbach, T. Simon, M. Wiley, P. Kanehl, E. Baker, S. Niemela, and P. Stewart. 2003. Watershed, Reach, and Riparian Influences on Stream Fish Assemblages in the Northern Lakes and Forest Ecoregion, USA. *Canadian Journal of Fisheries and Aquatic Sciences*. *Can. J. Fish. Aquat. Sci.* 60:491-505.

32. Weigel, Brian M., Lizhu Wang, Paul W. Rasmussen, Jason T. Butcher, Paul M. Stewart, Thomas P. Simon And Michael J. Wiley. 2003. Relative influence of variables at multiple spatial scales on stream macroinvertebrates in the Northern Lakes and Forest ecoregion, USA. *Freshwater Biology*.
33. Baker, M.E., M.J. Wiley, M.L. Carlton, and P.W. Seelbach. 2003. A GIS model of subsurface water potential for aquatic resource inventory, assessment, and environmental management. *Journal of Environmental Management* 32(6):706-719.
34. Riseng, C., M.J. Wiley, and R.J. Stevenson. 2004. Hydrologic disturbance and nutrient effects on the structure of benthic stream communities: A covariance structure analysis. *Journal of the North American Benthological Society* 23(2):309–326.
35. Baker, M.E. and M.J. Wiley. 2004. Characterization of woody species distribution in riparian forests of Lower Michigan using map-based models. *Wetlands*: 24(3):550-561.
36. Seelbach, P. W., and M. J. Wiley. 2005. Landscape-based modeling as the basis for a prototype information system for ecological assessment of Lake Michigan tributaries. In: Edsall, T. and M. Munawar, eds. *State of Lake Michigan: Ecology, Health, and Management*. Ecovision World Monograph Series. Aquatic Ecosystem Health and Management Society, New Delhi.
37. Baker, E.A., K.E. Wehrly, P.W. Seelbach, L. Wang, M.J. Wiley, and T. Simon. 2005. A multimetric assessment of stream condition in the Northern Lakes and Forests ecoregion using spatially explicit statistical modeling and regional normalization. *Transactions of American Fisheries Society*. 134:697-710.
38. R. Jan Stevenson, S. T. Rier, C. Riseng, R. Schultz, and M.J. Wiley. 2006. Comparing effects of nutrients on algal biomass in streams in 2 ecoregions with different disturbance regimes. *Hydrobiologia* 561:149-165.
39. K. E. Wehrly, M. J. Wiley, P. W. Seelbach . 2006. Influence of Landscape Features on Summer Water Temperatures in Lower Michigan Streams. In: *Landscape influences on stream habitats and biological communities*. American Fisheries Society Symposium 48:113-127, 2006. Bethesda, Maryland.
40. D. M. Infante, M. J. Wiley, P. W. Seelbach 2006. Relationships Among Channel Shape, Catchment Characteristics, and Fish in Lower Michigan Streams. In: *Landscape influences on stream habitats and biological communities*. American Fisheries Society Symposium 48: 339-357, 2006. Bethesda, Maryland.

41. T. G. Zorn, M. J. Wiley. 2006. Influence of Landscape Characteristics on Local Habitat and Fish Biomass in Streams of Michigan's Lower Peninsula. Landscape influences on stream habitats and biological communities. American Fisheries Society Symposium 48: 375-393, 2006. Bethesda, Maryland.
42. C. M. Riseng, M. J. Wiley, R. J. Stevenson, T. Zorn, P. W. Seelbach. 2006. Comparison of Coarse Versus Fine Scale Sampling on Statistical Modeling of Landscape Effects and Assessment of Fish Assemblages of the Muskegon River, Michigan In: Landscape influences on stream habitats and biological communities. American Fisheries Society Symposium 48: ,2006. Bethesda, Maryland.
43. P. J. Steen, D. R. Passino-Reader, M. J. Wiley. 2006. Modeling Brook Trout Presence and Absence from Landscape Variables Using Four Different Analytical Methods. In: Landscape influences on stream habitats and biological communities. American Fisheries Society Symposium 48, 2006. Bethesda, Maryland.
44. Paul W. Seelbach, Michael J. Wiley, Matthew E. Baker, Kevin E. Werhly. 2006. Initial Classification of River Valley Segments across Michigan's Lower Peninsula. In: Landscape influences on stream habitats and biological communities. American Fisheries Society Symposium 48:25-48,2006. Bethesda, Maryland.
45. Wiley, M.J. 2006.. Book review: Fluvial Geomorphology and River Management. WETLANDS, Vol. 26, No. 3, September 2006, pp. 884-885 2006, The Society of Wetland Scientists.
46. Stevenson, R. Jan, Michael J. Wiley, Vanessa L. Lougheed, Catherine Riseng, Stuart H. Gage, Jiaquo Qi, David T. Long, David W. Hyndman, Bryan C. Pijanowski, and R. Anton Hough. 2008. Chapter 19 in: Watershed Science: Essential, Complex, Multidisciplinary and Collaboratory In: W. Ji, editor, Wetland and Water Resource Modeling and Assessment: A Watershed Perspective, Taylor & Francis, London.
47. Wiley, Michael, Bryan Pijanowski, R. Jan Stevenson , Paul Seelbach, Paul Richards, Catherine Riseng, David Hynman and John Koches. 2008. Integrated Modeling of the Muskegon River: Tools for Ecological Risk Assessment in a Great Lakes Watershed. Chapter 20 in: W. Ji, editor, Wetland and Water Resource Modeling and Assessment: A Watershed Perspective, Taylor & Francis, London.
48. Gourdi, S. , C.Knowlton, K.Platt, M.J. Wiley. 2008. Modeling the Interlinking of the Ganges River: Simulated Changes in Flow. Chap. 7 in M. Mirza, A. Ahmed and Q. Ahmad (eds). Inter-Linking Rivers in India: Issues and Concerns. Taylor

& Francis, London. (6/2008)

49. Platt K., S.Gourdi, C.Knowlton, , M.J. Wiley. 2008. India's Energy Future and Interlinking of Rivers, Chap. 8 In M. Mirza, A. Ahmed and Q. Ahmad (eds). Inter-Linking Rivers in India: Issues and Concerns. Taylor & Francis, London. (6/2008)
50. Knowlton C., S.Gourdi, K.Platt, M.J. Wiley. 2008. Potential Public Health Implications of Interlinking of Rivers in India. Chap. 9 in M. Mirza, A. Ahmed and Q. Ahmad (eds). Inter-Linking Rivers in India: Issues and Concerns. Taylor & Francis, London. (6/2008)
51. Brenden T. , L. Wang, P.W. Seelbach, R.D. Clark Jr., M.J. Wiley, B.L. Sparks-Jackson. 2008. A spatially constrained clustering program for river valley segment delineation from GIS digital river networks. *Environmental Modeling & Software* 23(5):638-649.
52. Wang Lizhu, Travis Brenden, Paul Seelbach, Arthur Cooper, David Allan, Richard Clark Jr. and Michael Wiley. 2008. Landscape based Identification of Human Disturbance Gradients and Reference Conditions for Michigan Streams. *Environmental Monitoring and Assessment* (2008) 141:1-17.
53. Baker, M.E., and M.J. Wiley. 2009. Multiscale control of flooding and riparian-forest composition in Lower Michigan, USA. *Ecology* 90(1): 145-159.
54. Stevenson, R. Jan, Lucie Novoveska, Catherine M. Riseng and Michael J. Wiley. 2009. Comparing responses of diatom species composition to natural and anthropogenic factors in streams of glaciated ecoregions. *Nova Hedwigia, Beiheft* 135, pp. 1-14.
55. Kurt P. Kowalski, Douglas A. Wilcox , and Michael J. Wiley. 2009. Stimulating a Great Lakes coastal wetland seed bank using portable cofferdams: Implications for habitat rehabilitation. *Journal of Great Lakes Research* 35(2):206-214. 2009.
56. Zorn, T.G. and M.J. Wiley. 2010. Influence of sampling extent on the relative importance of biotic and abiotic factors in explaining variations in stream fish density. *American Fisheries Society Symposium* 73:487-502, 2010. Bethesda, Maryland.
57. Steen, Paul J., Michael J. Wiley, and Jeffrey S. Schaeffer. 2010. Predicting future change in Muskegon River watershed game fish distributions under future land cover alteration and climate change scenarios. *Trans. Amer. Fisher. Soc.* 139:396-412.
58. Wiley M. J., D. W. Hyndman, B. C. Pijanowski, A. D. Kendall, C. Riseng, E. S. Rutherford, S.T. Cheng, M.L. Carlson, J.A. Tyler, R.J. Stevenson, P.J. Steen,

- P.L. Richards, P.W. Seelbach, J.M. Koches & R.R. Rediske. 2010. A Multi-Modeling Approach to Evaluating Climate and Land Use Change Impacts in a Great Lakes River Basin. *Hydrobiologia* 657:243–262.
59. Riseng, C.R., M.J. Wiley, B.E. Pijanowski, P.W. Seelbach, and R.J. Stevenson. 2010. An ecological assessment of Great Lakes tributaries in the Michigan Peninsulas. *Journal of Great Lakes Research* 36 (2010) 505–519.
60. Zorn, Troy G. , Seelbach, Paul W. and Wiley, Michael J. 2011. Developing User-Friendly Habitat Suitability Tools from Regional Stream Fish Survey Data, *North American Journal of Fisheries Management*, 31: 41-55
61. Neeson, T., M. Wiley, S. Adlerstein, and R. Riolo. 2011. River network structure shapes inter-annual feedbacks between adult sea lamprey migration and larval habitation. *Ecological Modelling* 222:3182-3193.
62. Riseng, C.R., M.J. Wiley, R.W. Black, & M.D. Munn. 2011. Impacts of agricultural land use on biological integrity: a causal analysis. *Ecological Applications* 21(8), 2011, pp. 3128–3146
63. Neeson, Thomas M., Sara A. Adlerstein, and Michael J. Wiley. 2012. Towards a Process Domain Sensitive Substrate Habitat Model for Sea Lampreys in Michigan Rivers. *Transactions of the American Fisheries Society*. 141(2): 313-326.
64. Neeson, T., M.J. Wiley, S. Adlerstein, and R. Riolo. 2012. How river network structure and habitat availability shape the spatial dynamics of larval sea lampreys *Ecological Modelling*. 226: 62-70.
65. Larson, James H., Anett Trebitz, Alan D. Steinman, Michael J. Wiley, Martha Carlson-Mazur, Victoria Pebbles, Heather Braun, Paul Seelbach. 2013. Great Lakes River mouth Ecosystems: Scientific Synthesis and Management Implications. *Journal of Great Lakes Research* 39 (2013) 513–524.
66. Carlson-Mazur, Martha L., Michael J. Wiley and Douglas A. Wilcox. 2013 Estimating evapotranspiration and groundwater flow from water-table fluctuations for a general wetland scenario. *Ecohydrology* 7 (2), 378-390. DOI: 10.1002/eco.1356.
67. Bhattacharyya, K & M.J. Wiley. 2014. Dams, riparian settlement and the threat of climate change: A Case Study of the Damodar River, India, *Chapter 5* In: M. Nusser, (Ed.): *Large Dams in South Asia, Advances in Asian Human-Environmental Research* 4, Berlin, Heidelberg, New York: Springer-Verlag.
68. Kurt P. Kowalski, Michael J. Wiley, and Douglas A. Wilcox. 2014. Fish assemblages, connectivity, and habitat rehabilitation in a diked Great Lakes coastal wetland complex. *Transactions of the American Fisheries Society* 143 (5),

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70. Solomon R. David, Richard S. Kik , James S. Diana, Edward S. Rutherford, Michael J. Wiley. 2015. Countergradient variation in growth of Spotted Gar *Lepisosteus oculatus* from core and peripheral populations. *Transactions of the American Fisheries Society* 144 (4), 837-850
71. Cheng, Su-Ting, Michael J. Wiley, 2016. A Reduced Parameter Stream Temperature Model (RPSTM) for basin-wide simulations, *Environmental Modelling & Software*, Volume 82, August 2016, Pages 295-307, ISSN 1364-8152, <http://dx.doi.org/10.1016/j.envsoft.2016.04.015>.

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79. Wiley, M. J., L. L. Osborne, D. Glosser and S. Sobaski. 1987. Large-scale ecology of the Vermilion River Basin. INHS Aq. Biol. Rpt. 87/6. 78 pp.
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81. *Seelbach, P.W. and M.J. Wiley. 1997. Overview of the Michigan Rivers Inventory (MRI) Project. Fisheries Technical Report No. 97-3. Michigan Department of Natural Resources, Ann Arbor, MI.31.pp.
82. *Seelbach, P.W., M.J. Wiley, J.C. Kotanchik and M.E. Baker.1997. A Landscape-based ecological classification system for river valley segments in Lower Michigan. Fisheries Research Report No. 2036. Michigan Department of Natural Resources, Ann Arbor, MI.51.pp.
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84. *Zorn, T.G., P.W. Seelbach, and M.J. Wiley. 1997. Patterns in the fish communities of Lower Michigan streams. Michigan Department of Natural Resources, Fisheries Research Report 2035, Ann Arbor.
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- experimental approaches. *p.81 in Proceedings: 1998 Water and Watersheds Program Review. 28-29 January 1998. Corvallis, Oregon. 92pp. National Science Foundation, Arlington. VA.*
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101. Wiley, M.J., and J.S. Diana. 1989. Sublethal effects and tissue uptake of 1,4 dioxane. report to: Braithwaite Consultants Inc., Ann Arbor MI.30pp.
102. Wiley, M.J. 1990. A faunal survey of upper Stoney Creek in Augustan Township (Washtenaw County, Michigan). Report to Augusta Township. Whittaker, MI.
103. Wiley, M.J. 1991. Impacts of a proposed gravel pit operation on wetlands adjoining the Pinckney Moraine, Report to Pinckney Township Board. Pinckney MI.
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available online: <http://rougeriver.com/pdfs/education/sr21.pdf>
108. Wiley Michael J., Paul W. Seelbach, and Paul Rentschler. 2000. Feasibility of explicitly modeling ecological reference conditions for Michigan streams using landscape data. School of Natural Resources and Environment. University of Michigan, Ann Arbor .Final Report to U.S.EPA, Water Quality Criteria Program, Grant X985499-01-0
109. Wiley M.J., B.C. Pijanowski, J.K. Koches, P.W. Seelbach .2002-2008. ANNUAL PROGRESS REPORTS to the Great Lakes Fisheries Trust: Collaborative Approach to

Understanding the Dynamics of the Muskegon Watershed-A Comprehensive Model,
Risk Assessment and Tools for Use in Management.

<http://www.mwrp.net/megamodel//index.htm>

110. Wiley MJ, D Rosier, M Fainter – 2015. Report to the Muskegon River Watershed Assembly: Preliminary evaluation of restored Maple River flows on Muskegon River flooding and fish habitat.

Research Presentations and/or co-authorship's at National Meetings

Acad Year (W)	activity
2015	Invited Public Meeting Roscommom County on Higgins Lake; 1 contributed paper ESA 2015
2014	1 contributed paper Joint Aquatic Mtg (ISFB)
2013	2 contributed papers 2013 IAGLR Annual Meeting
2012	1 contributed paper 2012 IAGLR Annual Meeting Invited presentation on landuse tipping points, Indiana Sea Grant- land use planning tools workshop, Purdue University
2011	Invited Course: How Rivers Work; Huron River Watershed Council 2 contributed papers 2011 IAGLR Annual Meeting 1 contributed paper 2011 NABS Annual Meeting
2010	Invited Plenary Speaker, National River Restoration Conference. Seoul, S. Korea March 2010 2 contributed papers 2010 IAGLR Annual Meeting 1 contributed paper 2010 NABS Annual Meeting
2009	5 contributed papers 2009 IAGLR Annual Meeting 3 contributed paper 2009 NABS Annual Meeting Invited Plenary speaker, Scientific Foresight conference on Env. Degradation, A.N. College, Patna, Bihar, India Invited Plenary speaker, Stewardship Network Annual Conference Invited Plenary speaker, Michigan Chapter of the American Fisheries Society
2008	3 Invited presentations De Jaen South Korea; January 08 3 contributed papers 2008 IAGLR Annual Meeting 1 contributed paper 2008 AFS Annual Meeting Invited Speaker, Deans Seminar Series, SNRE/UM SNRE Deans Speaker Series
2007	2 Contributed papers 2007 IAGLR Annual Meeting 2 Contributed papers 2007 NABS Annual Meeting 2 Contributed papers 2007 AFS Annual Meeting Invited Presentation Flint River Watershed Council Annual Meeting Invited Presentation Huron River Watershed Council Annual Meeting
2006	2 Contributed papers 2006 IAGLR Annual Meeting 1 Contributed paper NABS Annual Meeting Invited presentation GLFT Research Committee Keynote address to MI-Corps Annual Conference
2005	5 contributed papers 2004 American Fisheries Society Meeting 6 contributed papers 2005 IAGLR annual conference 1 contributed paper American 2005 ASLO winter meeting 1 invited paper, Poyang Lake Watershed Conference, Nanchung, China

2004	<p>2) Contributed papers, North American Benthological Society (3) Contributed papers, WEF Specialty Conference: Watershed 2004. (4) Contributed papers American Fisheries Society Invited Speaker, NRCS short course on Biotechnical bank stabilization</p>
2002	<p>(3) Contributed papers , North American Benthological Society 1-day Short Course Geomorphic Monitoring techniques, HRWC invited seminar Lucknow University, India invited seminar Banares Hindi University, Ganga Laborartory, India invited seminar Patna University, India</p>
2001	<p>(2) Contributed papers , North American Benthological Society Contributed paper, International Association of Landscape Ecology Contributed paper, Ecological Society of America, 3-day Short Course on River geomorphology and hydrology, MDNR 1-day Short Course on Development and River channel dynamics, HRWC Invited Speaker, NRCS short course on Development and Urbanization Invited Speaker, Muskegon Initiative Symposium</p>
2000	<p>(2) Contributed papers , North American Benthological Society Contributed paper , Ecological Society of America Contributed paper , Riparian Ecosystems Conference Invited Speaker, Muskegon Initiative Conference</p>
1999	<p>Invited paper, Symposium on River Classification. ESA Annual Meeting Contributed paper, North American Benthological Society contributed paper, Midwest fish and Wildlife Conference</p>
1998	<p>(3) contributed papers International Association of Landscape Ecology; contributed paper, North American Bentholgical Society; contributed paper, ESA/ASLO joint meeting; Huron-Clinton River Watershed Councils' Technical Advisory Committee on Wetlands</p>
1998	<p>Huron River Watershed Councils' Technical Advisory Committee for Stream Stewards Program.</p>
1997	<p>(2) contributed papers, North American Benthological Society; (2) contributed papers, Midwest Fish and Wildlife Conference; Invited speaker, Ecosystem Management Conference, Ann Arbor, MI; Huron River Watershed Council Adopt-a-stream Technical Advisory Committee.</p>
1997	<p>(2) contributed papers, North American Benthological Society; (2) contributed papers, Midwest Fish and Wildlife Conference; Invited speaker, Ecosystem Management Conference, Ann Arbor, MI; Huron River Watershed Council Adopt-a-stream Technical Advisory Committee.</p>

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- 1996 (3) contributed papers, North American Benthological Society;
(1) invited and (3) contributed papers, American Fisheries Society;
invited paper, NSF/EPA Watershed Projects Review Meeting
Invited short course on Aquatic Insects, Huron River Watershed Council (12/96)
NRC EPA Research Directions Review Committee
Invited participant, Workshop on Aquatic Ecosystem Classification, The Nature
Conservancy (5/96); Huron River Watershed Council Technical Advisory
Committee.
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- 1995 Invited lecture on Fluvial Management, Mich Association of Drainage
Commissioners (2/95)
Invited 3-day Course, AFS/MDNR on River Management (3/95)
Invited mini-course on Fluvial Management, Summer Training Camp, Division of
Surface Water Quality, MDNR (7/95)
Invited Plenary Session Speaker, North American Benthological Society, Annual
Mtg. Fort Collins (5/95); 1 additional contributed paper.
Invited short course on Channel dynamics, Huron River Watershed Council
(12/95);
Huron River Watershed Council Technical Advisory Committee.
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- 1994 Invited Speaker, UM/Dearborn Ecology Seminar Series
Invited instructor 3-day Short Course, AFS/IFR-MDNR on River Management
NRC EMAP review committee . Huron River Watershed Council Technical
Advisory Committee.
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- 1993 (5) contributed papers North American Benthological Society
(3) contributed papers Ecological Society of America
Symposium paper, American Fisheries Society
NRC EMAP review committee. Huron River Watershed Council Technical
Advisory Committee.
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- 1992 Contributed paper, EPA Conference on groundwater ecology
NRC EMAP review committee
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- 1991 Contributed paper North American Benthological Society
NRC EMAP review committee
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- 1990 Invited speaker, Michigan/Indiana Fisheries Biologist Training Meeting;
Contributed paper American Fisheries Society
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- 1989 Contributed paper, 51rst Midwest Fish and Wildlife Conference
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- 1988 Invited speaker, University of Windsor
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- 1987 Invited speaker, Fish Div.,MDNR summer training camp
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- 1986 Contributed paper, North American Benthological Society;
Contributed paper, Ecological Society of America /INTERCOL
Invited seminar, Kellogg Biological Station
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1985 Contributed paper, Ann. Conf. Assoc. Coll. Schools of Planning;
Contributed paper, Aquatic Plant Management Society

1984 (2) contributed papers, Ill Chap. Amer. Fisheries Soc.;
(2) contributed papers Symposium on Illinois lake and watershed management.

1983 Participant in NSF workshop on Landscape Ecology, Monticello Illinois;
(2) contributed papers Ill Chap. Amer. Fisheries Soc.

1982 Invited plenary speaker, North American Benth. Society; invited symposium
speaker [lotic community structure] NABS;
Conducted graduate seminar (U of Illinois) on simulation modeling in fisheries
and wildlife management.; contributed paper, 6th International Conference on
Aquatic Weeds, Yugoslavia.

1981 contributed paper, Ecological Society of America

1980 (2) contributed papers, North American Benthological Society

1978 Contributed paper, Michigan Academy of Science, Lansing, Mich.

Current and past GRADUATE STUDENTS (Committee chair or Co-chair*)

<u>Ph.D. Students</u>	<u>Expected degree</u>	<u>Dissertation topic</u>
Michael Fainter	Candidate, 2016	Modeling fisheries habitat for restoration planning
Shaw Lacy* (w Bulkley)	PhD 13 graduated	Groundwater Conservation and Regulation in Michigan
Kyung-Seo Park	PhD 15 graduated	Ecological Assessment of rivers of S. Korea
Yu-Chun Koa* (co-chair/ Adlerstein)	PhD 15 graduated	Food web dynamics in lake Huron
Beth Sparks-Jackson	PhD 15 graduated	Validation test of riverine classification approaches
Ethan Bright	PhD 13 withdrawn	Chironomid community response to hydrologic and nutrient gradients
Solomon David	Ph.D 12 graduated	Conservation ecology of the spotted gar.
Tom Neeson* (co-chair/ Adlerstein)	Ph.D 10 graduated	Modeling Lamprey habitat in the Great Lakes region
Kurt Kolwolski	Ph.D 09 graduated	Great Lakes Coastal Habitat Restoration and Exploration
Martha Carlson	Ph.D 09 graduated	Eco-hydrology of Coastal Ridge and Swale Wetlands
Su-Ting Cheng	Ph.D 10 graduated	Water temperature and hydrologic modeling
Paul Steen	Ph.D 09 graduated	GAP analysis of GL Fishes and Landscape change
Janice Brummond* (co-chair/West)	Ph.D 08 graduated	Water Resource science and indigenous knowledge in Nepal
Matt Baker*	Ph.D 02 graduated	Ecology of Riparian Ecosystems
Troy Zorn.	Ph.D 02 graduated	Classification of fish communities in Michigan Rivers
Catherine Riseng	Ph.D 00 graduated	Impacts of nutrients and disturbance on stream communities
Kevin Wehrly.	Ph.D 99 graduated	Thermal constraints on stream fish communities
Leon Hinz.	Ph.D 99 graduated	Interactions of ration and temperature in trout streams.
Chuck Elzinga	Ph.D 99 graduated	Competition in guilds of herbivorous trichopterans
David Zaber*	Ph.D 99 graduated	Terrestrial and aquatic vertebrates as bio-indicators
Donna Francis	Ph.D 95 graduated	Chironomid sub-fossils as indicators of hypolimnetic oxygen deficit.
Roger Haro	Ph.D 94 graduated	Sexual size dimorphism & life history evolution of a predatory stonefly
Lynn Wike	Ph.D 86grad U of Ill	Bioenergetics and growth of the White Amur (grass carp)
<u>M.S. Students</u>	<u>expected degree</u>	<u>Thesis/Practicum/Project topic</u>
Will Arigoff		
David Rosier		
James Stack		
Andrew Layman	M.S. 15 Graduated	
Aubrey Scott	M.S. 14 Graduated	
Matt Boutin	M.S. 13 Graduated	
Chris Fryefield	M.S./JD grad 2013	thesis: Analysis of Great Lakes International Law
Liza Jenkins	M.S.	
Martha Carlson	M.S. 02 graduated	thesis: Validation of a topographic GW model
Dana List-Infante	M.S. 01 graduated	thesis: Channel modification impacts of fishes.
Matt Steve Bowler	M.S. 99 graduated	thesis: Restoration of Lake Plain Channel habitats
Chip Canedy	M.S. 97 withdrew	thesis: Prevalence trends in a regional <u>Courgourdella</u> epizootic
Jen Kotanchick	M.S. 97 graduated	thesis: GIS modelling of River Otter habitat
Nancy Stokes	NCFD	none
Anne Monnelly	M.S. 96 graduated	thesis: Habitat requirements and distribution of <u>Rhyacophila acropedes</u>
Richard Kleimen	M.S. 95 graduated	thesis: Nutrient concentrations and yields in Michigan Rivers.
Merideth Gooding	M.S. 95 graduated	practicum: A river classification scheme for lower Michigan Rivers
Terry Tompkins	M.S. 94 graduated	project: The Wetland complex of the upper Tittabawassi River
Bill Whipps	M.S. 94 graduated	project: The Wetland complex of the upper Tittabawassi River
Laurie Manor	M.S. 94 graduated	project: The Wetland complex of the upper Tittabawassi River

Ph.D. Students	Expected degree	Dissertation topic
Cynthia Radcliffe	M.S. 94 graduated	project: The Wetland complex of the upper Tittabawassi River
Dawn Majewski	M.S. 94 graduated.	project: The Wetland complex of the upper Tittabawassi River
Jan Mueller*	M.S.93 graduated.	thesis: A hydrologic approach to land-use planning
Carmen Talledo	M.S. 92 graduated	thesis: Regional ... longitudinal patterns in stream fish biodiversity
Leon Hinz	M.S. 92 graduated	Thesis: Dietary overlap in three Perlid Stoneflies.
Thomas Berry	M.S. 92 graduated	thesis: Historical hydrology in Michigan's coldwater trout streams
Chuck Theiling	M.S. 91 graduated	thesis: Limnological correlates to good and bad blue gill lakes
Amy Sosin	M.S. 90 graduated	thesis: Competitive effects of Glossosoma nigrrior

Other graduate student committees

Student	Unit	expected completion
Sara Nedrich	SNRE	Candidate; 2017
Joe Kreiger	SNRE	Candidate; 2017
Liza Jenkins		Candidate; 2017
Lori Ivan	SNRE/REM	
		Ph.D. Graduated 2009
Catherine Macwerski	C.E. /U of Illinois	Ph.D. Graduated 2007
Kati Szramek	Geology	Ph.D. Graduated 2005
Jennifer McKay	SNRE/REM	Ph.D. Graduated 2005
Dana Infante	SNRE/REM	Ph.D. Graduated 2004
Michael Reiskind	Biology/EEB	Ph.D Graduated 2004
Renee Sherman	SNRE/REM	Ph.D Graduated 2004
David Merkey	SNRE/REM	Ph.D Graduated 2005
Valerie Talsma	Sch of Education	Ph.D. Graduated 2004
Lindsay Whitlow	Biology/EEB	Ph.D. Graduated 2002
Noemi Barabas	Engineering	Ph.D. graduated 2002
Mercedes Castillo-Vcganga	SNRE/CBEM	Ph.D. graduated 2001
Douglas Jacques	Sch Public Health	Ph.D graduated 2000
Mike Berger	SNRE/CBEM	Ph.D graduated 2000
Maria Ellis	Biology	Ph.D graduated 1998
Troy Keller	Biology	Ph.D graduated 1997
Gary Wellborne	Biology	Ph.D graduated 1993
Donn Branstrator	Biology	Ph.D graduated 1993
Scott McNaught	Biology	Ph.D graduated 1993
Joel Heinen	SNRE/REM	Ph.D graduated 1992
Carol Bourne	SNRE/REM	Ph.D graduated 1992
Ana Chara	SNRE/CE	MS graduated 2015
		MS graduated 2014
		MS graduated 2013
Chris Fryefield	SNRE-RPB	MS graduated 2013
	LAW JD	
Chang, Yohan	SNRE/LA	MS graduated 2013
Hartleben, Brandon	MS Project adv	MS graduated 2013
Irvine, Janet	SNRE/RPB	MS graduated 2013
Knoppow, Brianna	SNRE/CE	MS graduated 2013
Miller, Joshua	SNRE/CE	MS graduated 2013
Schulze, Caitlin	SNRE/RPB	MS graduated 2013
Seiter, Cecilia	SNRE/CE	MS graduated 2013

<u>Student</u>	<u>Unit</u>	<u>expected completion</u>
Podzikowski,Laura	SNRE/CE	MS graduated 2013
Lynch,Maureen	SNRE/CE	MS graduated 2013
Lei,Lei	SNRE/CE	MS graduated 2013
Kevin Kronk	SNRE/REM	M.S. graduated 2002
Jennifer Abdella	SNRE/REM	MS 2001
Beth Sparks-Jackson	SNRE/REM	M.S. 01 graduated
Isabelle Minn	SNRE/CBEM/LA	M.S. 00 graduated
Laural Nida	SNRE/REM	M.S. 01 graduated
Amy Schrank	SNRE/REM	M.S. 97 graduated
Paul Merangelo	SNRE/REM	M.S. 96, graduated
Jonathan Rosenfield	SNRE/REM	M.S. 96, graduated
Mary Lammert	SNRE/CBEM	M.S. 95, graduated
Ethan Bright	SNRE/CBEM	MS 95 graduated
Janet Norman	SNRE/CBEM	MS 95 graduated
Cindy Gerster	SNRE/REM	MS 94 graduated
Kristin Schroder	SNRE/CBEM	MS 94 graduated
Nancy Roth	SNRE/CBEM	MS 94 graduated
Betsy Daub	SNRE/REM	MS 93 graduated

HISTORY of RESEARCH FUNDING:

2012	2013	Potential impacts of Higgins Lake dam removal. MDNR/MRWA \$18,500.
2009	2013	Land use Tipping points. NOAA/CILER. \$120,000
2007	2012	USGS Coop. Research Agreement: National Nutrient Effects Team. \$360,000.
2007	2007	Developing Permitting tools and analyses. \$50,535. MDNR/USGS/MSU
2006	2007	Reviewing methods for Large-river fisheries habitat Assessment \$95,000. Great Lakes Fisheries Commission/GLFT
2005	2007	Restoring Great Lakes Basin Water through the use of Conservation Credits... \$90,000 Subcontract from MSU/GLPF/USGS
2004	2006	Restoration of native vegetation and hydrology in the Crane Creek Estuary, Ottawa National Wildlife Sanctuary. GLNPO \$120,000 to USGS Great Lakes Science Center, (with Kolwolski and Wilcox (PI))
2004	2005	Developing relations among human activities, stressors, and stream ecosystem responses for integrated regional, multi-stressor models. EPA-STAR. UM-share \$225,000; \$750,000 total,. (with Stevenson(PI) and Hynman [MSU], Pijanowski [Purdue])
2003	2005	River Classification applied to Regional Assessment of Wisconsin, Michigan and Illinois. EPA-STAR \$800,000 (with Seelbach (PI), Allan, Stevenson, Pijanowski, Wang and Lyons)
2002	2002	Great Lakes Interactions: Defining the Ecological Footprint of the Muskegon River Watershed on Fisheries in Nearshore Lake Michigan. UM-OVPR . \$80,000 (with Rutherford et al.)
2002	2005	International Partnership support for collaborative work in India. Rackham . \$5600.
2003	2004	Modeling Michigan fish distributions for the Great lakes Aquatic GAP Project. \$60,000 USGS (With Seelbach and Passoro-Reader).
2002	2006	A review of stream restoration activity in the State of Michigan. MDNR Fisheries : \$60,000. (with Wehrly and Seelbach)
2001	2007	A Collaborative Approach to Understanding the Dynamics of the Muskegon Watershed: A Comprehensive Model, Risk Assessment and Tools for Use in Management. Great Lakes Fisheries Trust : \$2.1 Million total;
2001	2006	An Ecological Assessment of the Muskegon River Watershed to Solve and Prevent Environmental Problems: MSU/ Great Lakes Fisheries Trust (prime):\$221,000. (with Stevenson, Gage, et al. at MSU, \$1.6 Million total)
2001	2002	Long-term Dynamics of trout stream Food webs NSF-LTREB (Long Term Research in Environmental Biology): \$150,000. (with Steve Kohler), \$300,000 total; \$150,000 UM share.
2000	2002	Hydrologic Change in the Great Lakes Basin. Great Lakes Protection Fund :

1998	1999	REMAP sampling of the Northern Lakes/Forest Ecoregion (with P. Seelbach) MDNR Institute for Fisheries Research: \$60,000
1997	1999	Biocriteria Development for the Lower Peninsula of Michigan (with P. Seelbach) MDNR /EPA: \$30,000
1997	1998	River classification and sampling The Nature Conservancy: \$42,000
1996	1998	NSF/EPA Watershed Program: Ecological responses to stream nutrient gradients Univ. of Louisville (EPA prime): \$82,883
1996	1998	Continuation: Structure and resilience of trout stream food webs NSF / Ecology Program: \$128,000 (with S. Kohler Univ Illinois; \$250k total)
1996	1997	Restoration targets for the Rouge River (with P. Seelbach) Wayne County (EPA prime): \$112,758
1995	1997	Preliminary classification of Michigan River Valley Segments (with P. Seelbach) MDNR Institute for Fisheries Research: \$23,400
1993	1996	Influences of temperature and ration on Michigan Juvenile trout MDNR Institute for Fisheries Research: \$28,800
1993	1996	Inventory and Classification (Michigan Rivers Inventory) MDNR Institute for Fisheries Research: \$104,804
1992	1995	Structure and resilience of trout stream food webs NSF / Ecology Program: \$154,000 (with S. Kohler Univ Illinois; \$310k total)
1992	1993	Michigan Rivers Inventory MDNR Institute for Fisheries Research: \$6,600.
1991	1991	Epizootic perturbation of Michigan trout stream food webs Rackham Faculty Grant: \$9,982
1989	1990	Sublethal effects of exposure to 1,4 dioxane (with J. Diana) Braithwaite Inc.: \$16,600
1988	1988	Thermal and productivity constraints on community structure in warmwater rivers of southern Michigan UM / OVPR: \$9,909
1987	1990	Comparative limnological studies of good and bad bluegill lakes MDNR: \$15,822
		<u>UNIVERSITY OF ILLINOIS (1980-1987)</u>
1985	1986	Empirical relations between landuse and stream water quality in the Salt Fork watershed) Army Corp of Engineers, CERL, \$20,000

1985		Modelling effects of flow reduction on oxygen dynamics in the Sangamon River. Springfield Power and Light/ Ill. Dept. Cons.,\$4000
1984	1986	Largescale interactions in the Vermilion River basin: geomorphological and hydrological controls on stream productivity Ill Dept, Energy and Nat. Resources, \$80,707
1983	1986	Augmenting concepts and techniques for examining critical stream flow requirements Ill.Dept.Cons./USFWS, \$313,714
1981	1983	Benthic investigations of Braidwood Cooling Pond. Commonwealth Edison \$33,900 (benthic studies only)
1980	1985	Effects of using hybrid carp to control aquatic vegetation. Ill.Dept.Cons./USFWS, \$495,000
1980		Physiological ecology of the Vermilion River Heptageniidae Univ. of Illinois Research Board, \$4000
