

Melody Myers-Kinzie Environmental Scientist

EDUCATION

Ph.D. Fisheries and Aquatic Sciences, Purdue University, 1998
M.S. Biological Sciences, Purdue University, 1991
B.S. Biology, Manchester College, 1979

EXPERIENCE

Commonwealth Biomonitoring: 2003-present

Assesses water quality using fish, macroinvertebrates, and aquatic toxicity tests. Specializes in freshwater mussel ecology and conservation.

Aquatic Biologist: 2001-2002

Grand Traverse Band of Ottawa and Chippewa Indians, Peshawbestown, MI

Assessed quality of surface waters through chemical, biological, and physical parameters. Developed a Quality Assurance Project Plan. Analyzed water quality data trends using Microsoft Excel. Interpreted and summarized data in year-end report to funding agency. Developed Microsoft Access database to manage data from erosion control inventory.

Research Associate: 1998-2001

Purdue University, West Lafayette, Indiana

Evaluated the effects of watershed urbanization through collection of biological, chemical, and physical data from small streams. Supervised a team of four student technicians assigned to water and biological sample collections and water quality testing. Responsible for all data quality control issues. Analyzed biological responses to a suite of physical and chemical variables using Microsoft Excel and SAS. Interpreted results in a chapter of final report to funding agency and publication in an international journal. Presented results and conclusions of research at state and national meetings.

Graduate Instructor: 1993-1998

Purdue University, West Lafayette, Indiana

Designed and conducted small stream mussel survey and mussel culture system. Analyzed data with Microsoft Excel and SAS. Interpreted and presented research results at state and national meetings. Published research results in scientific journals. Assisted with grant proposal preparation.

PUBLICATIONS

Myers-Kinzie, M. and A. Spacie. 2001. Occurrence and distribution of freshwater mussels in the small streams of Tippecanoe County, Indiana. *Proc. Indiana Academy of Science* 110:141-150.

Myers-Kinzie, M. 2000. In vitro transformation of *Lampsilis siliquoidea*: a suitable species for glochidial and juvenile research. Pp. 65-67 *In Freshwater Mollusk Symposium Proceedings-Part I: Proceedings of the Conservation, Captive Care and Propagation of Freshwater Mussels Symposium*, Columbus, OH, March 1998. R.A. Tankersley, D. Warmolts, G.T. Watters, and B. Armitage (eds). Ohio Biological Survey, Columbus, OH.

Myers-Kinzie, M. 1998. The effect of water temperature on the respiration of the freshwater mussel *Lampsilis siliquoidea* (Bivalvia: Unionidae). *Proceedings of the Indiana Academy of Science* 107: 85-89.

Myers-Kinzie, M., A. Spacie, C. Rich, and M. Doyle. Relationship of unionid mussel occurrence to channel stability in urban streams. *Verhandlungen Internationale Vereinigung fuer Theoretische und Angewandte Limnologie*. In press.

Myers-Kinzie, M. 2001. Characterization of the fish community at Williams Creek within Marott Park Woods Nature Preserve, Indianapolis, Indiana. Indiana Department of Natural Resources, Division of Nature Preserves, and Indy Parks and Recreation Dept.

Myers-Kinzie, M. 2001. Mussel survey of the Wabash River at Peru, Indiana. Indiana Department of Natural Resources, Division of Fish and Wildlife.

Myers-Kinzie, M. and A. Spacie. 2001. Evaluation of the fish and mussel community of the Tippecanoe River at Leiters Ford, Indiana. Indiana Department of Natural Resources, Division of Fish and Wildlife, and US Fish and Wildlife Service.

Myers-Kinzie, M. and A. Spacie. 1998. Conservation and propagation of freshwater mussels. Indiana Department of Natural Resources Special Report.

Myers-Kinzie, M., A. Spacie, and M. Doyle. 2001. Freshwater mussel occurrence in relation to channel stability in urban streams. American Fisheries Society, Indiana Chapter Spring Meeting, Nashville, Indiana, March 1-2, 2001.

Myers-Kinzie, M., A. Spacie, C. Rich, and M. Doyle. 2001. Relationship of unionid mussel occurrence to channel stability in urban streams. *Societas Internationalis Limnologie*, Congress XXVIII, Melbourne, Australia February 4-10, 2001.

Myers-Kinzie, M. and A. Spacie. 2000. The response of benthic insect communities to urbanization in small Midwestern watersheds. 48th Annual Meeting of the North American Benthological Society, Keystone, Colorado, 2000.

Myers-Kinzie, M., and A. Spacie. 1998. Use of artificially cultured *Lampsilis siliquoidea* (Mollusca: Bivalvia) as a bioassay organism. American Fisheries Society Indiana Chapter Spring Meeting, Nashville, Indiana. March 4, 1998.