

CURRICULUM VITAE – MARY LAMMERT KHOURY

AQUATIC ECOLOGIST AND CONSERVATION PLANNER, THE NATURE CONSERVANCY MICHIGAN CHAPTER

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EDUCATION

University of Michigan, School of Natural Resources and Environment

M.S., Natural Resource Science (Stream Ecology), 1995, Advisor: J. David Allan

Thesis: Assessing land use and habitat effects on fish and macroinvertebrate assemblages: stream biotic integrity in an agricultural watershed.

Yale University

B.A., History and Studies in the Environment, 1990 (*cum laude*)

PROFESSIONAL EXPERIENCE

The Nature Conservancy (October 1995 – Present)

Aquatic Ecologist and Conservation Planner, Michigan Chapter, May 2008 – present

Aquatic Ecologist, Great Lakes Program, July 2004 – April 2008

Freshwater Ecologist, Midwest-Canada Division, June 2003 – July 2004

Aquatic Ecologist, Freshwater Initiative, November 1998 – June 2003

Associate Aquatic Ecologist, Great Lakes Program, October 1995 – October 1998

Huron River Watershed Council - Ann Arbor, Michigan

Research Intern (1995)

Sierra Club Legal Defense Fund (Earth Justice) - San Francisco, California

Research Assistant (1990-1993)

GRANTS AND AWARDS

Mott Foundation grant for Blue Accounting

Great Lakes Fishery Trust 2015, \$359,000, Informing Great Lakes connectivity decisions: An enhanced online portal for high-resolution barrier data and species specific benefit analyses,

UM Water Center 2013, \$268,000 Restoring native fish migrations while controlling invasive species: an optimization approach to support decision making, Peter McIntyre PI

Aquatic Ecologist and Conservation Planner, The Nature Conservancy Michigan Chapter

US FWS LCC grants for Great Lakes IMDS

Herbert, M. and M. Khoury. 2010. Development of conservation priorities for migratory, river-spawning fishes in Lake Huron. \$74,144 from the Michigan Department of Natural Resources and Environment, Coastal Management Program.

2010, US EPA Great Lakes Restoration Initiative: Blueprints for Conservation of Biodiversity. \$600,000

Mott grants with Great Lakes Program

- USDA Forest Service, \$131,000. "Utah High Plateau Planning." June 2001-September 2003. The Nature Conservancy (Freshwater Initiative, Utah Field Office, Western Resource Office).
- The McKnight Foundation, \$125,000. "Identifying Conservation Priorities Within the Upper Mississippi River Basin Ecoregions." June 2000-December 2001. (The Nature Conservancy, NatureServe.)
- USEPA Region V, \$100,000.. "Identifying Conservation Priorities Within the Upper Mississippi River Basin Ecoregions." June 2000-December 2001. (The Nature Conservancy, NatureServe.)
- US EPA Great Lakes National Program Office, \$75,000. "Identifying and Protecting Priority Aquatic Sites." November 1998-October 2000. The Nature Conservancy.
- The George Gund Foundation, \$150,000, "Protecting Great Lakes Aquatic Biodiversity." November 1998-October 2000. The Nature Conservancy.

University of Michigan, School of Natural Resources, Alvin Macauley Scholarship

University of Michigan, School of Natural Resources and Environment Merit Scholarship

University of Michigan, School of Natural Resources and Environment, Edna B. Sussman Grant

Xi Sigma Pi Society

REFEREED PUBLICATIONS

Pearsall, D.R., **M.L. Khoury**, J. Paskus, D. Kraus, P.J. Doran, S.P. Sowa, R. Franks Taylor, and L.K. Elbing. (2013). Make no little plans: developing biodiversity conservation strategies for the Great Lakes. *Environmental Practice* 15(4):462-480.

Khoury, M., J. Higgins, and R. Weitzell. (2011). A freshwater conservation assessment of the Upper Mississippi River Basin using a coarse- and fine-filter approach. *Freshwater Biology* 56(1): 162-179.

Higgins, J.V., M.T. Bryer, **M.L. Khoury**, and T.W. Fitzhugh. 2005. A freshwater classification approach for biodiversity conservation planning. *Conservation Biology* 19(2): 432-445.

Reuter, M.R., K. Lubinski, P. West, D. Blodgett, and **M. Khoury**. 2005. The Nature Conservancy's approach to conserving and rehabilitating biological diversity in the Upper Mississippi River System. *Archiv fur Hydrobiologie Supplement* 155/1-4: 549-560.

Aquatic Ecologist and Conservation Planner, The Nature Conservancy Michigan Chapter

Lammert, M. and J. D. Allan. 1999. Assessing biotic integrity of streams: effects of scale in measuring the influence of land use/cover and habitat structure on fish and macroinvertebrates. *Environmental Management* 23(2):257-270.

OTHER PUBLICATIONS

Herbert, Matthew, **Mary Khoury**, Tia Bowe and Layla Cole. March 2012. Development of Conservation Priorities for Migratory, River-spawning Fishes in Lake Huron. A final report submitted to the Michigan Coastal Management Program (MCMP) of the Michigan Department of Environmental Quality (Project #10D-0.10). http://www.michigan.gov/documents/deq/deq-ogl-cmp-TNC-ConservationPriorities-SpawningFish-LakeHuron_389155_7.pdf

Pearsall, D., P. Carton de Grammont, C. Cavalieri, P. Doran., L. Elbing, D. Ewert, K. Hall, M. Herbert, **M. Khoury**, S. Mysorekar, S. Neville, J. Paskus, and A. Sasson. 2012. Michigan: Great Water. Strategies to Conserve the Biodiversity of Lake Michigan. Technical Report. A joint publication of The Nature Conservancy and Michigan Natural Features Inventory. 309 pp. with Appendices.

Pearsall, D., P. Carton de Grammont, C. Cavalieri, C. Chu, P. Doran, L. Elbing, D. Ewert, K. Hall, M. Herbert, **M. Khoury**, D. Kraus, S. Mysorekar, J. Paskus and A. Sasson 2012. Returning to a Healthy Lake: Lake Erie Biodiversity Conservation Strategy. Technical Report. A joint publication of The Nature Conservancy, Nature Conservancy of Canada, Michigan Natural Features Inventory, and U.S. EPA Great Lakes National Program Office. 346 pp. with Appendices.

Franks Taylor, R., A. Derosier, K. Dinse, P. Doran, D. Ewert, K. Hall, M. Herbert, **M. Khoury**, D. Kraus, A. Lapenna, G. Mayne, D. Pearsall, J. Read, and B. Schroeder. 2010. The Sweetwater Sea: An International Biodiversity Conservation Strategy for Lake Huron – Technical Report. A joint publication of The Nature Conservancy, Environment Canada, Ontario Ministry of Natural Resources Michigan Department of Natural Resources and Environment, Michigan Natural Features Inventory Michigan Sea Grant, and The Nature Conservancy of Canada. 264 pp. with Appendices.
<http://conserveonline.org/workspaces/lakehuron.bcs/documents/final-report-the-sweet-water-sea-an-international/view.html>

Weitzell R.E., **Khoury M.L.**, Gagnon P., Schreurs B., Grossman D., Higgins J. 2003 Conservation Priorities for Freshwater Biodiversity in the Upper Mississippi Basin. NatureServe and The Nature Conservancy, Arlington. <http://www.natureserve.org/publications/upperMSriverbasin.jsp>

Higgins, J.V., **M. Lammert**, M.T. Bryer, M. DePhilip, D. Grossman. 1998. Freshwater Conservation in the Great Lakes Basin: Development and Application of an Aquatic Community Classification Framework. Report to the George Gund Foundation, Cleveland, Ohio (95-65), and the USEPA GLNPO (GL995819-02-0). The Nature Conservancy, Great Lakes Program Office, Chicago, IL.

SELECTED CONFERENCE PRESENTATIONS

Information management to support collaborative decision making. Special Symposium: Launching the Connectivity Collaborative, Midwest Fish and Wildlife Conference, Grand Rapids, MI, 2016.

Targeting Barrier Removal to Benefit Migratory Fish Species in the Great Lakes, State of Lake Michigan Conference, Traverse City, MI, 2015.

Developing regional goals for connectivity restoration, Special Symposium: Alignment on Regional Connectivity Priorities and Goals: Launching a Great Lakes Regional Connectivity Collaborative, International Conference on Engineering and Ecohydrology for Fish Passage, Madison, WI, 2014.

Great Lakes Information Management and Delivery System: Fostering Shared Goals and Collaborative Solutions, National Conference on Ecosystem Restoration, Schaumburg, IL, 2013.

The Great Lakes Information Management and Delivery System: Fostering Shared Goals and Solutions for Conservation, Wild Things Conference, Chicago, IL 2013.

Biodiversity in and along Lake Michigan - How is it faring and what can the Biodiversity Conservation Strategy do for you? State of Lake Michigan Conference, Sheboygan, WI, 2013.

The Great Lakes Information Management and Delivery System: fostering shared goals and collaborative solutions, State of Lake Michigan Conference, Sheboygan, WI, 2013.

Lake Michigan Biodiversity Conservation Strategy, Lake Michigan Forum and Lake Michigan Watershed Academy, Traverse City, MI, 2012.

The Great Threat to Freshwater Biodiversity: Solving the Problem of Aquatic Invasive Species, Patagonia Store Special Event, Chicago, IL, 2011.

Defining and Protecting Biodiversity Through Conservation by Design, DePaul Business School – Sustainable MBA Program, Chicago, IL, 2011.

Principles of Environmental Flow in the Great Lakes Region, International Association of Great Lakes Researchers, Toronto, ON, 2010.

Giving consideration to biodiversity significance in urban habitat restoration: a bi-national blueprint for conservation, Great Lakes Urban Habitat Symposium, Chicago, IL, 2009.

Designing Conservation Strategies for the Upper Mississippi River: What is the Reserve and Does Reserve Design Apply? International Congress for Conservation Biology, New York, NY, 2004.

The use of landscape characteristics to describe freshwater ecosystems: the convergence of conservation and management applications. US International Association of Landscape Ecology, Banff, Canada, 2003.

An assessment of freshwater biodiversity in the Central Mixed Grass Prairie Ecoregion, Central Plains Center for Bioassessment annual Symposium, 2002.

Approaches and uses for landscape-based stream ecosystem classification. Midwest Fish and Wildlife Conference, 2001.

Aquatic ecoregional planning. Bonneville Chapter of the American Fisheries Society and the Utah Chapter of the Wildlife Society Annual Meeting, 2001.

A vision for freshwater conservation: The Nature Conservancy and its Freshwater Initiative. University of Michigan Chapter of the Society for Conservation Biology Conservation Symposium, 2001.

Ecological classification of Great Lakes nearshore zones. North American Benthological Society Annual Meeting, 1999.

The Nature Conservancy's Aquatic Community Classification: a framework for freshwater conservation. National GAP Analysis Program meeting. 1998.

Application of the aquatic community classification in Michigan: a pilot test of the national framework. Ecological Society of America Annual Meeting, 1997.

Landscape influences on fish assemblages: how scale of study affects outcome. American Fisheries Society Annual Meeting, 1996.

SYMPOSIA ORGANIZED

Launching the Connectivity Collaborative, Midwest Fish and Wildlife Conference, Grand Rapids, MI, 2016.

Alignment on Regional Connectivity Priorities and Goals: Launching a Great Lakes Regional Connectivity Collaborative, International Conference on Engineering and Ecohydrology for Fish Passage, Madison, WI, 2014.

MEMBERSHIP AND SERVICE

Great Lakes Aquatic Habitat Connectivity Collaborative, 2015 – present

Great Lakes Aquatic Habitat Framework Working Group, 2012-2015

President, Board of Directors, Angelic Organics Learning Center, 2014 – present

Landmark Worldwide Self-Expression and Leadership Program Leader

SKILLS

Trained facilitator for The Nature Conservancy's Conservation Action Planning method