## Presentations of the Mid-Continent Ecology Division January through June 2009

- Angradi, T.R. Developing macroinvertebrate indicators for the mid-continent great rivers: Lessons from EMAP-GRE. 57th Annual Meeting of the North American Benthological Society, Grand Rapids, MI, May 17-22, 2009. 5120
- Ankley, G.T. CAFOs. University for Seniors Program, UMD, Duluth, MN, January 29, 2009. 5128
- Ankley, G.T. Endocrine-disrupting chemicals: New tools for assessing ecological risk. *USEPA*, Ecological Risk Assessment Forum and TriServices Environmental Risk Assessment Working Group Joint Winter Meeting, Vicksburg, MS, January 27-29, 2009. 5121
- Bolgrien, D.W. EMAP great rivers. *University for Seniors Program, UMD, Duluth, MN, January* 22, 2009. 5131
- Burkhard, L.P., P.M. Cook, and M.T. Lukasewycz. Extrapolation of biota-sediment accumulation factors. *Battelle Fifth International Conference on Remediation of Contaminated Sediments, Jacksonville, FL, February 2-5, 2009.* 5047
- Custer, T.W., C.M. Custer, P. Dummer, K.P. Kenow, M.W. Meyer, and R. Rossmann. Mercury contamination in tree swallows nesting at northern Wisconsin inland lakes that differ in methylation potential. *Midwest Chapter of Society of Environmental Toxicology and Chemistry Meeting, La Crosse, WI, March 30-April 1, 2009.* 5135
- Denslow, N.D., N. Garcia-Reyero, K.J. Kroll, E.F. Orlando, K.H. Watanabe, M.S. Sepulveda, D.L. Villeneuve, E.J. Perkins, and G.T. Ankley. EE2 changes gene expression in fathead minnow testis. *15th Annual Symposium on Pollutant Responses in Marine Organisms, Bordeaux, France, May 17-20, 2009.* 5124
- Denny, J.S., M.W. Hornung, M.A. Tapper, P.K. Schmieder, J. Pregenzer, J. McKim IV, and D. Blakeman. Comparison of relative binding affinities for trout and human estrogen receptor based upon different competitive binding assays. *Joint Meeting of the Minnesota, Wisconsin, and Ontario Chapters of the American Fisheries Society, Duluth MN, February 2-4, 2009.* 5106
- Denny, J.S., M.W. Hornung, M.A. Tapper, P.K. Schmeider, J. Pregenzer, J. McKim IV, and D. Blakeman. Relative chemical binding affinities for trout and human estrogen receptor using different competitive binding assays. *Annual Meeting of Midwest Chapter of SETAC, La Crosse, WI, March 30-April 1, 2009.* 5147
- Diamond, S.A. Nanomaterials. *University for Seniors Program, UMD, Duluth, MN, January* 22, 2009. 5132
- Etterson, M.A. Classical Markov chains: A unifying framework for understanding avian reproductive success. *Math Department, UMD, Duluth, MN, February 26, 2009.* 5141

- Greenberg, M., S. Ells, and L.P. Burkhard. Using fish tissue data to monitor remedy effectiveness. *Battelle Fifth International Conference on Remediation of Contaminated Sediments, Jacksonville, FL, February 2-5, 2009.* 5048
- Habib, T., D. Villeneuve, D. Martinovic, Y. Deng, G. Ankley, E. Perkins, and N.G. Reyero. Inference of a transcriptional network involved in chemical inhibition of estrogen synthesis in fathead minnow. 6th Annual Conference of the MidSouth Computational Biology and Bioinformatics Society, Starkville, MS, February 20-21, 2009. 5123
- Hill, B.H. Nitrogen and the Mississippi River. *University for Seniors Program, UMD, Duluth, MN, January 15, 2009.* 5130
- Hill, B.H., C.M. Elonen, T.M. Jicha, D.W. Bolgrien, and M.F. Moffett. Sediment microbial enzyme activity as an indicator of nutrient limitation in the great rivers of the Upper Mississippi basin. 57th Annual Meeting of the North American Benthological Society, Grand Rapids, MI, May 17-22, 2009. 5108
- Hoffman, A.D., T.L. ter Laak, P.N. Fitzsimmons, and J.W. Nichols. An evaluation of the venous equilibrium model for hepatic clearance using isolated perfused rainbow trout livers. *SOT Annual Meeting, Baltimore, MD, March 15-19, 2009.* 5082
- Hoffman, J.C., G.S. Peterson, A.M. Cotter, and J.R. Kelly. Food webs without borders? Watershed-coast interactions influence diet sources of fish in the St. Louis River. *Joint Meeting of the Minnesota, Wisconsin and Ontario Chapters of the American Fisheries Society, Duluth, MN, February 2-4, 2009.* 5104
- Hornung, M.W. and E. Burgess. Use of tandem in vitro and ex vivo assays to assess chemicals for thyroid hormone synthesis inhibition. *SOT Annual Meeting, Baltimore, MD, March 15-19, 2009.* 5086
- Kelly, J.R., P.M. Yurista, J. Stockwell, E.J. Isaac, S. Miller, J. Scharold, T. Corry, T. Johnson, O. Johanssen, M. Munawar, and V. Richardson. Big numbers for the big lake: A lower food web assessment of Lake Superior (2004-2006). *IAGLR's 52nd Annual Conference on Great Lakes Research*, *Toledo, OH, May 18-22*, 2009. 5107
- Kenow, K.P., M.W. Meyer, and R. Rossmann. Patterns and consequences of *in ovo* exposure to methylmercury in common loons. *Midwest Chapter of Society of Environmental Toxicology and Chemistry Meeting, La Crosse, WI, March 30-April 1, 2009.* 5136
- Keough, J.R. Update on ESRP wetlands program. *USEPA ESRP Lecture Series, March 25*, 2009. 5146
- Kreis, R.G., X. Zhang, E. Murphy, R. Rossmann, K.R. Rygwelski, G. Warren, P.J. Horvatin, and W. Melendez. Lake Michigan mass balance study post audit: Integrated, multimedia PCB modeling and forecasting for lake trout. *IAGLR's 52nd Annual Conference on Great Lakes Research, Toledo, OH, May 18-22, 2009.* 5117

- Li, Z., K.J. Kroll, N.G. Garcia-Reyero, D.L. Villeneuve, M. Sepulveda, E.D. Orlando, G.T. Ankley, N.D. Denslow, and K.H. Watanabe. Development of a computational model for female fathead minnows exposed to two endocrine disrupting chemicals. *PNW-SETAC Meeting, Port Townsend, WA, April 16-18, 2009.* 5143
- Miller, D.H., R.G. Kreis, Jr., W.-C. Huang, and X. Xia. Application of a lower food web productivity model to investigate ecosystem level changes resulting from aquatic invasive species in Lake Michigan. 16<sup>th</sup> International Conference on Aquatic Invasive Species, Montreal, QC, Canada, April 19-23, 2009. 5069
- Miller, D.H., R. Rossmann, X. Xia, and W.-C. Huang. Assessment of sediment measurements in Lake Michigan as a case study: Implications for monitoring and modeling. 5th International Conference on the Remediation of Contaminated Sediments, Jacksonville, FL, February 2-5, 2009. 5058
- Nichols, J.W., G.J. Lien, A.D. Hoffman, and P.N. Fitzsimmons. Metabolism of 7-ethyoxycoumarin by isolated perfused rainbow trout livers. *SOT Annual Meeting, Baltimore, MD, March 15-19, 2009.* 5081
- Pauer, J.J., A.M. Anstead, W. Melendez, and R. Rossmann. Small should be the new big: High-resolution models with small segments have big advantages when modeling eutrophication in the Great Lakes. *IAGLR's 52nd Annual Conference on Great Lakes Research, Toledo, OH, May 18-22, 2009.* 5110
- Pearson, M.S., T.R. Angradi, D.W. Bolgrien, and B.H. Hill. Development of an index of ecological condition based on great river fish assemblages. *Annual Meeting of the North American Benthological Society, Grand Rapids, MI, May 17-22, 2009.* 5115
- Reyero, N.G., T. Habib, D. Villeneuve, D. Martinovic, Y. Deng, G. Ankley, N. Denslow, and E. Perkins. Caught in a network: Recovery from aromatase inhibition. *15th Annual Symposium on Pollutant Responses in Marine Organisms, Bordeaux France, May* 17-20, 2009. 5125
- Richards, C. Overview of EPA research. *University for Seniors Program, UMD, Duluth, MN, January 15, 2009.* 5129
- Rossmann, R. Estimation of a historic mercury load function for Lake Michigan using dated sediment cores. *IAGLR's 52nd Annual Conference on Great Lakes Research*, *Toledo, OH, May 18-22, 2009.* 5109
- Russom, C.L. The ECOTOX knowledgebase. *USEPA, Ecological Risk Assessment Forum and TriServices Environmental Risk Assessment Working Group Joint Winter Meeting, Vicksburg, MS, January* 27-29, 2009. 5122
- Sutton, T.T., J.C. Hoffman, O.A. Bergstad, T. Falkenhaug, F. Porteiro, M. Heino, C.I.H. Anderson, J. Horne, and A. Bucklin. Trophic pathways of the mid-north Atlantic. *ICES Deep-sea Symposium, Horta, Azores, Portugal, April* 27-30, 2009. 5139

- Trebitz, A.S. Great Lakes coastal wetlands: Overview of their ecology and human impacts. *University for Seniors Program, UMD, Duluth, MN, January* 22, 2009. 5119
- Trebitz, A.S., J.R. Kelly, J.C. Hoffman, G.S. Peterson, and C.W. West. Early detection monitoring approaches for exotic aquatic species in great lakes harbors and embayments. Western Great Lakes Research Conference, Ashland, WI, April 1-2, 2009. 5138
- Trebitz, A.S., J.A. Morrice, M.E. Sierszen, J.A. Thompson, and J.R. Kelly. Hydrogeomorphic and anthropogenic influences on water quality, habitat, and fish of Great Lakes coastal wetlands. *Society of Wetland Scientists Meeting, Madison, WI, June 21-26, 2009.* 5144
- Villeneuve, D.L. Predictive toxicology. *University for Seniors Program, UMD, Duluth, MN, January* 29, 2009. 5127
- Villeneuve, D.L. Cross-species extrapolation in ecological risk assessment. *Integrated Biosciences 8103 Comparative Animal Physiology class, UMD, Duluth, MN, February 10, 2009.* 5140
- Xia, X. and D.H. Miller. Spatial patterns study for sediments from Lake Michigan. *IAGLR's* 52nd Annual Conference on Great Lakes Research, Toledo, OH, May 18-22, 2009. 5112
- Yurista, P.M. Great Lakes nearshore zones. *University for Seniors Program, UMD, Duluth, MN, February 5*, 2009. 5133
- Yurista, P.M., J.R. Kelly, S. Miller, and J. Van Alstine. Spatial patterns in water quality and plankton for the US waters of nearshore Lake Huron, 2007. *IAGLR's 52nd Annual Conference on Great Lakes Research*, *Toledo, OH, May 18-22*, 2009. 5111
- Zhang, X., K.R. Rygwelski, R. Rossmann, and R.G. Kreis, Jr. A mercury transport and fate model for mass budget assessment of mercury cycling in Lake Michigan. *IAGLR's* 52nd Annual Conference on Great Lakes Research, Toledo, OH, May 18-22, 2009. 5114