

2005 Scientific Papers – Wisconsin Sea Grant Funded

Fate of Oxytetracycline in Streams Receiving Aquaculture Discharges: Model Simulations Peter E. Rose and Joel A. Pedersen *Environmental Toxicology and Chemistry*, 24(1):40-50, 2005

Antioxidant Protection of Bulk Fish Oils by Dispersed Sugars and Polyhydric Alcohols Habibollah Faraji and Robert C. Lindsay *Journal of Agricultural and Food Chemistry*, 53:736-744, 2005

Heart Malformation Is an Early Response to TCDD in Embryonic Zebrafish Dagmara S. Antkiewicz, C. Geoffrey Burns, Sara A. Carney, Richard E. Peterson and Warren Heideman *Toxicological Sciences*, 84:368-377, 2005

Lipase-mediated Transesterification of Menhaden Oil with the Ethyl Ester of Conjugated Linoleic Acid: Multi-response Kinetics Carlos F. Torres, Betty Lin, Louis P. Lessard, Charles G. Hill Jr. *Biochemical Engineering Journal*, 23:107-116, 2005

Condition Index of the Eastern Oyster, *Crassostrea Virginica* (Gmelin 1791) in Sapelo Island Georgia-- Effects of Site, Position on Bed, and Pea Crab Parasitism Norman Mercado-Silva *Journal of Shellfish Research*, 24(1):121-126, 2005

Seasonal and Spatial Relationship of Chemistry and Toxicity in Atmospheric Particulate Matter Using Aquatic Bioassays Rebecca J. Sheesley, James J. Schauer, Jocelyn D. Hemming, Steve Geis and Miel A. Barman *Environmental Science & Technology*, 39(4):999-1010, 2005

Maternal Diet During Oogenesis Is the Major Source of Methylmercury in Fish Embryos Chad R. Hammerschmidt and Mark B. Sandheinrich *Environmental Science & Technology*, 39(10):3580- 3584, 2005 Spines and Natural History of Three *Cenchrus* Species Andrew E. Forbes *American Midland Naturalist*, 153:80-86, 2005

Field Exposure of Frog Embryos and Tadpoles Along a Pollution Gradient in the Fox River and Green Bay Ecosystem in Wisconsin, USA Willam H. Karasov, Robin E. Jung, Susan Vanden Langenberg and Tara L.E. Bergeson *Environmental Toxicology and Chemistry*, 24(4):942-953, 2005

Do Reservoirs Facilitate Invasions into Landscapes? John E. Havel, Carol Eunmi Lee and M. Jake Vander Zanden *BioScience*, 55(6):518-525, June 2005 Zebrafish as a Model Vertebrate for Investigating Chemical Toxicity Adrian J. Hill, Hiroki Teraoka, Warren Heideman and Richard E. Peterson *Toxicological Sciences*, 86(1):6-19, 2005

Movements of Lake Trout in U.S. Waters of Lake Superior, 1973-2001 Kevin L. Kapuscinski, Michael J. Hansen and Stephen T. Schram *North American Journal of Fisheries Management*, 25:696-708, 2005 Zebrafish and Cardiac Toxicology Warren Heideman, Dagmara S. Antkiewicz, Sara A. Carney, and Richard E. Peterson *Cardiovascular Toxicology*, 5(2):203-214, 2005

Growth Potential and Host Mortality of the Parasitic Phase of the Sea Lamprey (*Petromyzon marinus*) in Lake Superior Jeffrey C. Jorgensen and James F. Kitchell *Canadian Journal of Fisheries and Aquatic Sciences*, 62:2343-2353, 2005

Sea Lamprey (*Petromyzon marinus*) Size Trends in a Salmonid Stocking Context in Lake Superior Sissel Jentoft, Nicole Topp, Matthew Seeliger, Jeffrey A. Malison, Terence P. Barry, James Held, Steven Roberts and Frederick Goetz *Aquaculture*, 250:471-479, 2005

Lack of Growth Enhancement by Exogenous Growth Hormone Treatment in Yellow Perch (*Perca flavescens*) in Four Separate Experiments Jeffrey C. Jorgensen and James F. Kitchell *Canadian Journal of Fisheries and Aquatic Sciences*, 62:2354-2361, 2005

Methyl and Total Mercury in Precipitation in the Great Lakes Region Hall, BD, H Manolopoulos, JP Hurley, JJ Schauer, VL St. Louis, D Kenski, J Graydon, CL Babiarz, LB Cleckner and GJ Keeler *Atmospheric Environment* 39(39):7557-7569. doi:10.1016/j.atmosenv.2005.04.042 2005

Speciation and Transport of Atmospheric Mercury in a Boreal Forest Wetland: A Stable Mercury Isotope Approach. Branfireun, BA, DP Krabbenhoft, H Hintelmann, RJ Hunt, JP Hurley and JWM. *Rudd Water Resources Research* v. 41, W06016, doi:10.1029/2004WR003219 2005

Mercury and the FLUDEX Project-Response Bodaly, RA, KG Beaty, LH Hendzel, AR Majewski, MJ Peterson, KR Rolfhus, AF Penn, VL St. Louis, BD Hall, CJD. Matthews, KA Cherewyk, M Mailman, JP Hurley, SL Schiff and JJ Venkiteswaran *Environmental Science and Technology* 39(9); 185A-186A. doi: 10.1021/es053256j 2005