

Graduate Student Publications

Publications (Journal Articles, Conference Papers, and Book Chapters)

Names of graduate students are printed in **bold**.

2010

Graeb, B. D. S., D. W. Willis, N. Billington, **R. N. Koigi**, and J. A. VanDeHey. 2010. Age-structured assessment of walleye, sauger and naturally produced hybrids in Missouri River reservoirs. *North American Journal of Fisheries Management* 30: 887-897.

2008

Collins, C. L., M. W. Mullen, P. M. Stewart, and E. C. Webber. 2008. Application and validation of an invertebrate community index for urban streams in the Choctawhatchee and Pea Rivers watersheds. *Journal of the American Water Resources Association (JAWRA)*, in press.

Pilarczyk, M. M., H. Blalock-Herod, and P. M. Stewart. 2008. Life history and preliminary host fish identification of *Quincuncina burkei* and *Pleurobema strodeanum*. *American Malacological Bulletin* 24, in press.

Pisani, K. A., S. C. Landers, and E. Pappanastos. 2008. Salinity tolerance in *Hyalophysa chattoni* (Ciliophora, Apostomatida), a symbiont of the estuarine grass shrimp *Palaemonetes pugio*. *European Journal of Protistology*. (in press)

2007

Morris, C. C., P. M. Stewart, and T. P. Simon. 2007. Development of an index of biotic integrity for a southeastern coastal plain watershed, USA. *Journal of the American Water Resources Association (JAWRA)* 43(2):1-13.

2006

Morris, C. C., P. M. Stewart, and T. P. Simon. 2006. Development of an index of biotic integrity for fish communities of the Choctawhatchee River Watershed, southern Alabama. *Journal of the American Water Resources Association (JAWRA)*, 43 (2): 1-13.

Pilarczyk, M. M., P. M. Stewart, D. N. Shelton, H. N. Blalock-Herod, and J. D. Williams. 2006. Current and recent historical freshwater mussel assemblages in the Gulf coastal plains. *Southeastern Naturalist* 5(2): 205-226.

Pilarczyk, M. M., P. M. Stewart, & T. P. Simon. 2006. Classification of macroinvertebrate

assemblages of the Great Lakes coastal wetlands for use in the development of indices of biological integrity. Pp. 277-295 (Ch. 12) *in* T.P. Simon & P.M. Stewart (editors). Coastal Wetlands of the Laurentian Great Lakes: Health, Habitat, and Indicators. Authorhouse, Bloomington, IN.

Stewart, P. M., **M. M. Pilarczyk**, and T. P. Simon. 2006. Development of an activity trap macroinvertebrate index of biotic integrity for Lake Michigan coastal wetlands. Pp. 321-332 (Ch. 14) *in* T.P. Simon & P.M. Stewart (editors). Coastal Wetlands of the Laurentian Great Lakes: Health, Habitat, and Indicators. Authorhouse, Bloomington, IN.

Stewart, P. M., **M. M. Pilarczyk**, and T. P. Simon. 2006. Development of a d-net macroinvertebrate index of biotic integrity for Lake Michigan drowned river mouth coastal wetlands. Pp. 333-346 (Ch. 15) *in* T.P. Simon & P.M. Stewart (editors). Coastal Wetlands of the Laurentian Great Lakes: Health, Habitat, and Indicators. Authorhouse, Bloomington, IN.

Stewart, P. M., **M. M. Pilarczyk**, and T. P. Simon. 2006. Development of d-net macroinvertebrate indices of biotic integrity for wetlands of Lake St. Clair and the connecting channels. Pp. 347-362 (Ch. 16) *in* T.P. Simon & P.M. Stewart (editors). Coastal Wetlands of the Laurentian Great Lakes: Health, Habitat, and Indicators. Authorhouse, Bloomington, IN.

Stewart, P. M., **M. M. Pilarczyk**, R. F. Thoma, and T. P. Simon. 2006. Development of a preliminary macroinvertebrate index of biotic integrity for Lake Erie drowned river mouth coastal wetlands. Pp. 363-374 (Ch. 17) *in* T.P. Simon & P.M. Stewart (editors). Coastal Wetlands of the Laurentian Great Lakes: Health, Habitat, and Indicators. Authorhouse, Bloomington, IN.

2005

Billington N., R. E. Creech, R.E. Jensen, J. Gaston, **P. T. Ezell**, R G. Wallace, and R. C. Brooks. 2005. A comparison of isozyme markers and morphological analysis for determining sauger, walleye, and their hybrids in Lake Diefenbaker, Saskatchewan, Canada. Gene Families and Isozymes Bulletin 38: 10.

Heath, W. H., S. Ramroop, and **P. M. Stewart**. 2005. GIS used to present crayfish assemblages in the coastal plain of southeast Alabama. 2nd Annual GIS Conference, Troy University, Troy, AL.
<http://spectrum.tory.edu/~kroblee/Second%20Annual%20GIS%20Symposium/>

- Hosvepyan, A.** and S. Greipsson. 2005. EDTA-enhance phytoremediation of lead-contaminated soil by corn. *J. Plant Nutrition* 28: 2037-2040.
- Koigi, R. N., N. Billington, J. Xiong, J. Gaston, **P. T. Ezell**, W. Gardner, and V. Riggs. 2005. Use of isozyme markers to document genetic variation in Montana sauger, and to screen for hybrids with walleye in sauger brood fish. *Gene Families and Isozymes Bulletin* 38: 12.
- Pruitt, V. M.**, M. Woods, and S. Ramroop. 2005. Application of GIS in a floristic survey of Elmore County, Alabama. *Proceeding of Annual TU GIS Symposium* 2: 18-24.
- Roberts, A.** and S. Greipsson. 2005. Effects of severe coastal erosion on arbuscular mycorrhizal fungi on coastal dune plants on Dauphin Island (Alabama). *Ecological Restoration* 23: 122-123.

2004

- Bennett, H. H.**, M. W. Mullen, P. M. Stewart, **J. A. Sawyer**, and E. C. Webber. 2004. Development of an invertebrate community index for an Alabama coastal plain watershed. *J. American Water Resources Association (JAWRA)* 40(1): 43-51.
- Billington, N., **R. N. Koigi**, B. Graeb, and D. W. Willis. 2004. Hybridization between sauger and walleye in Lewis and Clark Lake, South Dakota, determined by protein electrophoresis. *In Proceedings of Percis III: The Third International Percid Fish Symposium* (Barry, T.P. and J.A. Malison, Eds.), pp. 115-116. University of Wisconsin Sea Grant Institute, Madison, WI.
- Billington, N., **R. N. Koigi**, F. White, D. Porter, B. Graeb, and D. Willis. 2004. Use of isozyme markers to document hybridization between walleye and sauger in three Missouri River reservoirs in South Dakota. *Gene Families and Isozymes Bulletin* 37: 26.
- Cohen, G. M., **C. Jiang**, and E. G. Spokas. 2004. Alkaline and acid phosphatase activities in the zebrafish gill. *Microscopy and Microanalysis* 10 (Supplement 2), 1230CD-1231CD.
- Hovsepyan, A.** and S. Greipsson. 2004. Effect of arbuscular mycorrhizal fungi on phytoextraction by corn (*Zea mays*) of lead-contaminated soil. *International Journal of Phytoremediation* 6: 305-321.
- Koigi, R. N.**, N. Billington, D. Porter, F. White, W. Gardner, and V. Riggs. 2004. Hybridization between native sauger and introduced walleye in Montana, and in Yellowstone River sauger brood stock. *Gene Families and Isozymes Bulletin* 37: 28.
- Pennington, T.** and M. Woods. 2004. The vascular flora of Dale County, Alabama. *Southeastern Naturalist*. 3: 495-516.

Sawyer, J., P. M. Stewart, T. P. Simon, M. Mullen, and **H. Bennett.** 2004. Comparison of water quality, habitat, and land use variables driving macroinvertebrate and fish assemblages of the Choctawhatchee-Pea Watershed, southern Alabama. *Aquatic Ecosystem Health and Management* 7(1): 85-99.

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Billington, N., D. Isermann, **R. N. Koigi,** and D. Willis. 2003. How long can *Stizostedion* specimens remain in gill nets in summer before significant breakdown of diagnostic isozyme markers occurs? *Gene Families and Isozymes Bulletin* 36: 20.

Robinson, C. D., and G. M. Cohen, and E. G. Spokas. 2003. Co-localization of Na⁺/K⁺-ATPase and the peptide hormone receptor guanylate cyclase in chloride cells of *Fundulus heteroclitus*. *Microscopy and Microanalysis* 9 (Supplement 2): 1218-1219.

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Beech, C. D. and S. C. Landers. 2002. Ciliated protozoan colonization of substrates from Dauphin Island, Alabama. *European Journal of Protistology* 38: 83-89.

Diamond, A. R., M. Woods, J. A. Hall, and **B. A. Martin.** 2002. The vascular flora of the Pike County Pocosin Nature Preserve. *Southeastern Naturalist* 1: 45-54.

Martin, B., M. Woods, and A. R. Diamond. 2002. The vascular flora of Coffee County, Alabama. *Castanea* 67: 227-246.

Morris, C. C., J. A. Sawyer, H. H. Bennett, and **C. D. Robinson.** 2002. Effects of sediment quantity on the health of aquatic ecosystems: A case study on depth of fines in coastal plain streams in Alabama. Pages 113-122, *in* *Biological Response Signatures: Indicator Patterns Using Aquatic Communities*, T.P. Simon, editor. CRC Press, Boca Raton, FL.

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Rundell, H. and M. Woods. 2001. The vascular flora of Ech Lake, Alabama. *Castanea* 66: 352-362.

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Diamond, A. R., M. Woods, and **H. Rundell.** 1999. Epiphyllous hepatics from southern Alabama. *The Bryologist* 102: 309-313.

Rundell, H., and A. R. Diamond. 1999. Noteworthy Collections from Alabama. *Castanea* 64(4): 355-356.