

Steve J. Baedke – Recent Publications

Johnston, J.W., Baedke, S.J., Thompson, T.A., Argyilan, E.P., Wilcox, D.A., 2008, How do ancient shorelines help in regulation efforts of the upper Great Lakes?, International Association for Great Lakes Research, May 19-23, Peterborough, ON.

Johnston, J.W, Thompson, T.A., Wilcox, D.A., and Baedke, S.J., 2007, Geomorphic and sedimentologic evidence for the separation of Lake Superior from Lake Michigan and Huron. *Journal of Paleolimnology*, v.37, p.349-364.

Hodges, A.L., Degrazia, L.C., Baedke, S.J., Thompson, T.A., and Wilcox, D.A., 2007, The use of aqueous geochemistry as an indicator of flow system interaction within a beach-ridge complex of Lake Huron. *Geological Society of America Abstracts with Programs*, v. 39, no. 6, p. 319. [Won National Council Award for Outstanding Student Research Awarded by The Earth Science Honorary Sigma Gamma Epsilon].

Porse, S., Bell, J. M., Baedke, S.J., Thompson, T.A, and Wilcox, D.A, 2006, Subsurface Stratigraphy and Aqueous Geochemistry as Indicators of Hydrology in Beach-ridge Complexes: Two Case Studies from the Upper Great Lakes. *Geological Society of America Abstracts with Programs*, Vol. 38, No. 7, p. 354. [Won Austin A. Sartin Best Student Poster Award]

Bell, J. M, Porse, S., Baedke, S.J., Thompson, T.A, and Wilcox, D.A, 2006, A Comparison of Dendrochronological and Sedimentological Datasets and Their Applicability for the Interpretation of Annual and Decadal Scale Climate Fluctuations in the Great Lakes. *Geological Society of America Abstracts with Programs*, Vol. 38, No. 7, p. 354.

Thompson, T.A., Baedke, S.J., and Johnston, J.W., 2006 Late Holocene lake level in the upper Great Lakes: What lake level do you want it to be? *Geological Society of America Abstracts with Programs*, Vol. 38, No. 4, p. 7.

Baedke, S.J., Wilcox, D.A., and Thompson, T.A., 2005, Insight into groundwater contributions to wetlands using aqueous geochemical

indicators and groundwater flow modeling: Three cases studies from ridge and swale sequences in the Great Lakes. Geological Society of America, Abstracts with Programs, v. 37, no. 7, p. 244.

Wilcox, D.A., Baedke, S.J., and Thompson, T.A., 2005, Groundwater contribution to hydrology-driven development of wetland plant communities. Geological Society of America, Abstracts with Programs, v. 37, no. 7, p. 244.

Posner, R.N., Bell, J.M., Baedke, S.J., Thompson, T.A., and Wilcox, D.A., 2005, Aqueous geochemistry as an indicator of subsurface geology and hydrology of a beach-ridge/wetland complex in Negwegon State Park, MI. Geological Society of America, Abstracts with Programs, v. 37, no. 7, p. 300.

Hubbard, D.A., and Baedke, S.J., (Accepted 2004), Water quality parameters for Virginia Stygobionts. XVII International Symposium on Biospeleology, Raipur, India.

Baedke, S.J., Johnston, J.W. Thompson, T.A., and Wilcox, D.A., 2004, Reconstructing Paleo Lake Levels from Relict Shorelines along the Upper Great Lakes. Aquatic Ecosystem Health and Management, Vol. 7, No. 4, p. 435-449.

Thompson, T.A., Baedke, S.J., and Johnston, J.W., 2004, Geomorphic expression of late Holocene lake levels and paleowinds in the upper Great Lakes. In Hansen, E.C., ed., The Geology and Geomorphology of Lake Michigan's Coast. Michigan Academician, v. 35, n. 4, p.355-371.

Johnston, J.W., Baedke, S.J., Booth, R.K., Thompson, T.A., and Wilcox, D.A., (2004), Late Holocene lake-level variation in southeastern Lake Superior: Tahquamenon Bay, Michigan. Journal of Great Lakes Research Special Topics, vol. 30, Sup(1), p. 1-19.

Baedke, S.J., and Krothe, N.C., 2003. Reply to Comment: Effective Hydraulic Parameters of a Karst Aquifer Derived from Discharge Hydrograph Analysis, Water Resources Research, vol. 39, no. 6.

Baedke, S. J.; Krothe, N. C., 2001, Derivation of effective hydraulic

parameters of a karst aquifer from discharge hydrograph analysis, *Water Resources Research*, Vol. 37 , No. 1 , p. 13

Baedke, S.J., and Thompson, T.A., 2000, A 4,700 year record of lake level and isostasy for Lake Michigan. [Journal of Great Lakes Research](#), vol. 26:416-426.

Baedke, S.J. and Krothe, N.C., 2000, Quantitative tracer test of the Beach Creek aquifer at the Ammunition Burning Grounds, Naval Surface Warfare Center, Crane, Indiana: in, Sasowsky, I.D. and Wicks, C.M. (eds.), *Groundwater Flow and Contaminant Transport in Carbonate Aquifers*, A.A. Balkema, Rotterdam, p. 15-30.

Thompson, T.A., and Baedke, S.J., 2000, A Geologic perspective on Lake Michigan Water Levels. U.S. Army Corps of Engineers, *Water Level Bulletin*, v. 140, p. 1-5.

Thompson, T.A., and Baedke, S.J., 1999, Strandplain evidence for reconstructing late Holocene lake level in the Lake Michigan Basin: in, Sellinger C.E. and Quinn, F.H. (eds), *Proceedings of the Great Lakes Paleo-Levels Workshop: The Last 4000 years*, NOAA Technical Memorandum ERL GLERL-113, pg. 30 - 34.

Thompson, T.A., and Baedke, S.J., 1997, Strandplain evidence for late Holocene lake-level variations in Lake Michigan. *GSA Bulletin*, vol. 109, no. 6, p. 666-682.

Baedke, S.J., and Krothe, N.C., 1997, Quantitative dye trace of a karstic carbonate aquifer at the Ammunition Burning Grounds, Crane Naval Surface Warfare Center, Indiana. *Geological Society of America, Abstracts with Programs*.

Baedke, S.J., and Krothe, N.C., 1997, Continuum hydraulic properties of a karstic aquifer at the Ammunition Burning Grounds, Crane Naval Surface Warfare Center, Indiana. *Geological Society of America, Abstracts with Programs*.