

Erin P. Argyilan  
Department: Geosciences  
Associate Professor  
At IU Northwest since 2004

## SCHOLARLY PUBLICATIONS AND CREATIVE ACHIEVEMENTS

---

### BOOKS CHAPTERS:

Peller, J.R., Argyilan, E.P., Cox, J.J., Grabos, N. 2013. "Analytical measurements to improve nonpoint pollution assessments in Indiana's Lake Michigan Watershed: "Monitoring Water Quality" In Ahuja, Satider, ed., *Monitoring Water Quality: Pollution Assessment, Analysis and Remediation*. 1<sup>st</sup> Edition, Elsevier, Publishing 2012.

### ARTICLES (in refereed journals):

Simon, T.P., Morris, C.C., Argyilan, E.P., 2016. "Characterization of Coastal Drift-Cell Sediment Processes Effecting the Restoration of the Southern Lake Michigan Shoreline." *Environmental Management*. 58(6): pp 1059–1073. doi 10.1007/s00267-016-0750-y

Argyilan, E.P., Avis, P.G., Krekeler, M.P., Morris, C.C. 2015. "The origin of collapse features appearing in a migrating parabolic dune along the southern coast of Lake Michigan." *Aeolian Research* 19:137-149. doi 10.1016/j.aeolia.2015.09.008.

Sinha, S.V., Argyilan, E.P., Krekeler, M.P. 2015. "An environmental investigation of the mineralogical, geotechnical, hydrogeologic and botanical properties of subsurface flow constructed wetlands (SFCWs) in Akumal Mexico." *Environmental Earth Sciences*. doi 10.1007/s12665-014-3577-y

Argyilan, E.P., Lepper, K., Thompson, T.A. 2014. "Analysis of intra-dune variability of optical ages yields a refined chronology of late Holocene coastal development along the southern shore of Lake Michigan." *Geological Society of America Special Papers* 508, doi:10.1130/2014.2508(03).

Johnston, J.W., Argyilan, E.P., Thompson, T.A., Baedke, S.J., Lepper, K., Wilcox, D.A., Forman, S.L. 2012. "A Sault-outlet referenced mid- to late-Holocene paleohydrograph for Lake Superior constructed from strandplains of beach ridges." *Canadian Journal of Earth Sciences*, 49(11), p.1263-1279.

Thompson, T.A., Lepper, K., Endres, Al., Johnston, J.W., Baedke, S.J., Argyilan, E.P., Booth, R.K., and Wilcox, D.A., 2011. "Mid Holocene lake level and shoreline behavior during the Nipissing phase of the upper Great Lakes at Alpena, Michigan, USA." *Journal of Great Lakes Research*, v. 37(3), p.567-576. doi:10.1016/j.jglr.2011.05.012

Argyilan, E.P., Forman, S.L., Thompson, T.A. 2010. "Variability of Lake Michigan water level during the past 1000 years reconstructed through optical dating of a coastal strandplain." *The Holocene* 20(5): 723-731.

Krekeler, M.K., Argyilan, E.P., Lepp, J., Keans, L.E. 2009. "Investigation of Calcareous Beach Sands in the Akumal and Tulum areas for use in Constructed Wetlands, Eastern Yucatan Peninsula." *Environmental Earth Science*. 59(2): 411-420.

Kilibarda, Z., Argyilan, E.P., Blockland, J. 2008. "Wind deposition of mud aggregates and their role in development of lamellae in the Fair Oaks Dunes, Indiana." *Catena* 72: 235-247

Argyilan, E.P., Forman, S.L., 2005, John W. Johnston, and Douglas A. Wilcox. "Optically stimulated luminescence dating of late Holocene raised strandline sequences adjacent to southern Lake Superior, Upper Peninsula, Michigan USA." *Quaternary Research* 63, 122-135.

Argyilan, E.P., Forman, S.L. 2003. "Lake level response to seasonal climatic variability in the Lake Michigan-Huron system from 1920 to 1995." *J. Great Lakes Research*.29; 488 – 500.

#### FIELD GUIDES:

Huysken, K., Argyilan, E.P., and Votaw, R. 2016, Project-based Field Trips to the Starved Rock Area for Geoscience Educators, Northern Illinois, North-Central Geological Society of America, April 20, *Geological Science Field Trip Guidebook 2016*, Urbana-Champaign, Illinois State Geological Survey, Prairie Research Institute, University of Illinois at Urbana-Champaign.

---

**Revised:** 06/14/17