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Sent: Monday, September 25, 2017 10:24 AM
To: asutkows@indiana.edu
Subject: Check out the latest from the Indiana Geological Survey



News from the Indiana Geological Survey

March 2017

WE NEED YOUR INPUT!

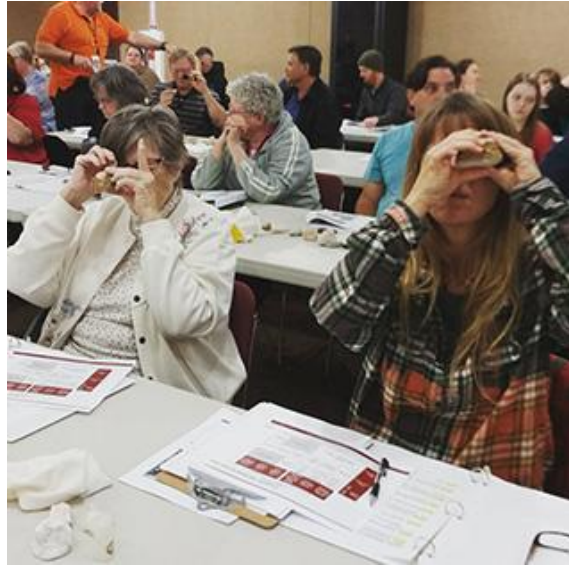
The IGS, with the help of a graduate class from IU's School of Public and Environmental Affairs, is evaluating its economic impact on the state of Indiana, and the value it provides to its users. As part of this project, we ask that you visit the link below and fill out a survey. Your answers will be anonymous. We appreciate your help.

TAKE THE SURVEY

The IGS in the Community

The Indiana Master Naturalist program provides an introduction to Hoosier natural resources through the eyes of resource professionals and experts in the field. As part of this program, IGS Director and State Geologist Todd Thompson and Polly Sturgeon, Educational Outreach Coordinator, brought a bit of geology to 28 students of various ages in Monroe County in February. During the 3-hour workshop, participants learned how to identify common Indiana rocks, compare fossil specimens to 3-D prints, and discover Indiana's geologic history.

[FIND OUT MORE](#)



PUBLISHED RESEARCH BY IGS GEOLOGISTS

Every so often, we let you know about the work of IGS researchers that is published in scientific journals and books. Here are just some of the recent articles that represent the science we do at the IGS. The links will take you to the publications or abstracts.

Bahadur, J., **Medina, C.**, He, L., Melnichenko, Y., **Rupp, J.**, Blach, T., and Mildner, D., 2016, Determination of closed porosity in rocks by small-angle neutron scattering: *Journal of Applied Crystallography*, v. 49, p. 2,021-2,030. <https://doi.org/10.1107/S1600576716014904>

Branam, T., Green, R., Wittman, O., and Ayre, A., 2016, Sulfates in Indiana substrates (Joint Transportation Research Program Publication No. FHWA/IN/JTRP-2016/19): West Lafayette, Ind., Purdue University. <http://dx.doi.org/10.5703/1288284316342>

Faulkner, D., Larson, P.H., Jol, H.M., Running, G.L., **Loope, H.M.**, and Goble, R.J., 2016, Autogenic incision and terrace formation resulting from abrupt late-glacial base-level fall, Lower Chippewa River, Wisconsin, USA: *Geomorphology*, v. 266, p. 75-95. <http://www.sciencedirect.com/science/article/pii/S0169555X16302227>

Florea, L.J., 2017, Sulfur-based speleogenetic processes in the Cumberland Plateau, USA, *in* Klimchouk, A.B., Palmer, A.N., De Waele, J., Auler, A.S., and Audra, P., eds., *Hypogene karst and caves of the world*: Springer, 650 p.

Florea, L.J., Hart, D., Tinjum, J., and Choi, C., 2017, Potential impacts to groundwater from ground-coupled, geothermal heat pumps in district scale: *Groundwater*, v. 55, no. 1, p. 8-9. [doi: 10.1111/gwat.12484](https://doi.org/10.1111/gwat.12484)

Lennon, J.T., Nguyen-Thuy, D., Pham, T.M., **Drobniak, A.**, Ta, P.H., Pham, N.D., Streil, T., Webster, K.D., and Schimmelmann, A., 2017, Microbial contributions to subterranean methane sinks: *Geobiology*, v. 15, no. 2, p. 254-258. <http://dx.doi.org/10.1111/gbi.12214>

Karayigit, A.I., Bircan, C., **Mastalerz, M.**, Oskay, R.G., Querol, X., Lieberman, N.R., Turkmen, I., 2017, Coal characteristics and modes of occurrence of some trace elements in the Isaalan coal (Balikesir, NW Turkey): *International Journal of Coal Geology*, v. 172, p. 43-59. <http://dx.doi.org/10.1016/j.coal.2017.01.016>

Nyathi, M.S., Kruse, R., **Mastalerz, M.**, Bish, D.L., 2017, Investigation of coke quality variation between heat-recovery and by-product cokemaking technology: *Energy and Fuels*, v. 31, no. 2, p. 2,087-2,094. [DOI: 10.1021/acs.energyfuels.6b02817](https://doi.org/10.1021/acs.energyfuels.6b02817)

Mastalerz, M., Karayigit, A., **Hampton, L.**, and **Drobniak, A.**, 2016, Variations in gas content in organic matter-rich low maturity shale; example from the New Albany Shale in the Illinois Basin: *Jacobs Journal of Petroleum and Natural Gas*, v. 1, no. 1, p. 005.

Teng, J., **Mastalerz, M.**, and **Hampton, L.**, 2017. Maceral controls on porosity characteristics of lithotypes of Pennsylvanian high volatile bituminous coals; Example from the Illinois Basin: *International Journal of Coal Geology*, v. 172, p. 80-94. <http://dx.doi.org/10.1016/j.coal.2017.02.001>

Zhang, Q., **Branam, T.**, and Olyphant, G., 2017, Development and testing of a model for simulating weathering and trace elements release from fixated scrubber sludge utilized in abandoned coal mine reclamation site: *International Journal of Coal Geology*, v. 169, p. 92-105. <http://www.ndsl.kr/ndsl/search/detail/article/articleSearchResultDetail.do?cn=NART77112254>



COLLECTING MORGAN COUNTY DATA

IGS geologists Bill Monaghan, Henry Loope, and Jose Luis Antinao Rojas recently collected glacial outwash samples in Morgan County for use in optically stimulated luminescence (OSL) dating. OSL is a late Quaternary dating technique used to date the last time quartz sediment was exposed to light. This is part of a larger four-county project to document the chronology and

stratigraphy of late Wisconsinan tills in south-central Indiana. Understanding glacial stratigraphy will help to evaluate groundwater resources (both quantity and quality) in this area that is experiencing population and industrial growth.

OUR NEW LOOK

You may have noticed---we've re-designed the newsletter so that it can be read more easily on cell phones and tablets.

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