

Bethany L. Kile

Graduate Student

Department of Earth and Environmental Systems

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EDUCATION

Indiana State University

2012-2016

B.S. in Earth and Environmental Science

Concentration: Geoscience

GPA in Earth and Environmental Science classes: 3.79

SUMMARY OF QUALIFICATIONS

- Traditionally trained Geologist with field and research experience
- Involved with undergraduate research since Spring 2014
- Paleolimnology Laboratory Assistant since Spring 2014
- Trained in diatom sample preparation and analysis
- Trained in Biogeochemistry Lab analysis procedures
- Presented research at multiple national scientific meetings

RELATED WORK EXPERIENCE

Laboratory Assistant

2015-2016

Paleolimnology Laboratory – Indiana State University

- Maintain a clean, organized lab space
- Sample and prepare lake sediments for fossil diatom extraction
- Fossil diatom imaging and analysis
- Assist with lake sediment core collection
- Lake surveying
- Laboratory equipment management
- Diatom preparation and processing for 6 lake sediment cores from various external projects for Dr. Stone, approximately 1500 samples

Undergraduate Researcher

2015-2016

Biogeochemistry Laboratory – Indiana State University

- Perform sediment sample digestions
- Analyze samples using hand-held XRF
- Perform phosphorus extractions on sediment samples

FIELD EXPERIENCE

- Sedimentary Stratigraphy Analysis – *Shades State Park, Indiana* **2015**
- Marginal Marine Depositional Environments – *Sulphur, Indiana* **2015**
- Marine Depositional Environments – *Falls of the Ohio State Park, Indiana*
- Petrogenetic Evaluation of Igneous Intrusives/Extrusives – *Missouri* **2015**
- Methods of Structural Geologic Analysis – *Western U.S.* **2015**
- Core collection and lake bathymetry – *Beartooth Mountains, Montana & Wyoming* **2015**

RESEARCH EXPERIENCE

Indiana State University, Undergraduate Student **2015**

Research Topic: *Holocene variation in nutrient cycling and burial in Herd Lake*

Paleolimnology Lab – prepared and weighed samples, processed sediments for diatom extraction, diatom analysis for 84 slides

Biogeochemistry Lab – prepared and weighed samples, SEDEX phosphorus extractions for four phases, XRF analysis for 84 samples

Research Topic: *Paleolimnological Investigation of the Reclamation of Ashby Lake, Indiana*

Paleolimnology Lab – prepared and weighed samples, processed sediments for diatom extraction, diatom analysis for 67 slides

Biogeochemistry Lab – prepared and weighed samples, SEDEX phosphorus extractions for four phases, XRF analysis for 45 samples

Research Topic: *Analysis of the Reclamation of the Sugar Ridge Strip Mine Region from Lake Sediments*

Biogeochemistry Lab – prepared and weighed samples, SEDEX phosphorus extractions for four phases, XRF analysis for 51 samples

RESEARCH PRESENTATIONS

Kile, Bethany L., Stone, J.R., Latimer, J.C., Shapley, M., Finney, B., Barnes, S., 2016. Herd Lake: The Recent Sediment History of a Varved, Landslide-Dammed Lake. Geological Society of America, North-Central Section (Indiana), Poster Presentation.

Kile, Bethany L., Stone, J.R., Latimer, J.C., Shapley, M., Finney, B., 2016. Herd Lake: The Recent Sediment History of a Varved, Landslide-Dammed Lake. National Conference of Undergraduate Research (North Carolina), Poster Presentation.

Kile, Bethany L., Stone, J.R., Latimer, J.C., Shapley, M., Finney, B., Barnes, S., 2016. Herd Lake: The Recent Sediment History of a Varved, Landslide-Dammed Lake. Indiana Academy of Science (Indiana), Poster Presentation.

Kile, Bethany L., Shepard, S.K., Stone, J.R., Latimer, J.C., 2015. Paleolimnological Investigation of the Reclamation of Arm Pit and Ashby Lake. Summer Undergraduate Research Experience (Indiana), Poster Presentation.

Kile, Bethany L., Shepard, S.K., Stone, J.R., Latimer, J.C., 2015. Paleolimnological Investigation of the Reclamation of Arm Pit and Ashby Lake. International Limnogeology Congress (Reno), Poster Presentation.

Kile, Bethany L., Shepard, S.K., Stone, J.R., Latimer, J.C., 2015. Paleolimnological Investigation of the Reclamation of Arm Pit. Geological Society of America North-Central Section (Madison), Poster Presentation.

PROFESSIONAL MEMBERSHIPS

Geological Society of America	2015-
Association for Women Geoscientists	2015-

GRANTS AND FUNDING

CSRC Undergraduate Student Travel Grant Spring 2015	\$132
Undergraduate Research and Creativity Award Spring 2015	\$250