

Emily Bausher

Master's student, Geology
West Virginia University

Sinkhole Conference paper: *Geochemical Comparison of Karst and Clastic Springs in the Appalachian Valley and Ridge Province, Southeastern WV and Central PA*

Emily Bausher began her geology career with undergraduate research at Lehigh University interpreting well data, creating soil profiles, and working with GIS data on the earthquake in Mineral, Virginia. While an undergraduate, she also worked at an environmental consulting firm where she collected soil, vapor, and water data, worked with oil-water separation and the extraction of underground storage tanks. Now as a Master's student she is focused on karst geochemistry, hydrology, and increasing community involvement in those topics. She has been funded by a West Virginia University grant and crowd-sourcing donations. Her current research involves evaluating the quality and quantity in the Peter's Mountain region of West Virginia. She has presented her research at regional and national Geological Society of America meetings.



2018 Beck Scholar Emily Bausher Statement:

My current geology career sparked when I began undergraduate research at Lehigh University where I interpreted well-data, created soil profiles, and manipulated data with Arc GIS, Arc Scene and InkScape in the greater Philadelphia area in response to the earthquake in Mineral VA. Also while an undergrad, I had an internship at PARS Environmental Consulting firm in New Jersey spanning the summers of 2013-2015. My work at PARS included soil, vapor and well sampling as well as oil-water separator cleaning and the remediation and extraction of USTs.

Since then I have honed my specific interests, working towards the completion of my Master's degree in Geology at West Virginia University (WVU). I am interested in karst geochemistry and hydrology and how to increase community involvement around these topics. Much of the funding for my project has come from a WVU community engagement grant and from experiment.com crowd-sourcing donations. My research involves the identification of interconnectivity, areas of contamination concern and the quantification of spring water available for consumption and use in the Peter's Mountain region of Monroe County, WV. I work closely with the Indian Creek Watershed Association (ICWA) in Monroe County and many landowners to make this research possible. I have presented my data thus far at a region and an annual Geologic Society of America Meeting. My personal interests include hiking, softball, racquetball, soccer, reading and traveling.