

Kadie Bennis, University of Missouri-Kansas City, for her proposal: *Field and experimental analysis of sediment-magma mingling at the 71 Gulch Volcano in the western Snake River Plain, Idaho, USA*

Kadie Bennis is a second-year graduate student at the University of Missouri – Kansas City in Kansas City, MO, where she is pursuing a Master of Science in Environmental and Urban Geosciences. She received her Bachelor of Science in Geology and a minor in French from the University of Mary Washington in Fredericksburg, VA. Her current research focuses on water-magma interactions and further, sediment-magma interactions in order to understand the processes related to subaqueous volcanism. She recently participated in the 7th International Maar Conference in Olot, Catalonia, Spain, where she presented preliminary results from her field site at the 71 Gulch Volcano in Bruneau, Idaho. Using the 71 Gulch Volcano as a proxy to compare these magmatic interactions with present phreatomagmatic systems, she is able to better study the mechanisms that influence the probability of a subaqueous explosion. Her research will aid in the discussion surrounding peperites* and their formation, as well as contribute to current experimental procedures regarding magma erupting into water. Support from the Lipman Award allowed her to travel back to her field site in Idaho this summer to collect supplementary data and observations, as well as gather additional geochemical analyses from her field samples. Kadie looks forward to presenting this research at her first GSA meeting this fall in Indianapolis, IN.

* A **peperite** is a sedimentary rock that contains fragments of igneous material and is formed when magma comes into contact with wet sediments.

