Calli Provenza, Oklahoma State University, Stillwater, Oklahoma for her proposal: *Hydrothermal Source Proxy Using Noble Metals*

Calli is a second-year M.S. student at Boone Pickens School of Geology at Oklahoma State University. She is working under the supervision of Dr. Natasha Riedinger. Her M.S. project focuses on understanding the main source and spatial distribution patterns of noble metals such as gold, silver, and palladium. Once analyzed, they will be evaluated to see if they can be used as a tracer for hydrothermal vent activity. Sediment samples for this research were collected around hydrothermal vents from the East Scotia Ridge in the South Scotia Sea. With support from the Lipman Student Research Grant, she will be able to look at noble metal marine sedimentation rates by analyzing the Pb-210 in sediments. This technique will be done using a gamma spectrometer and will help solidify the main source of noble metals in the area.

Calli is from Houston, Texas, and obtained her B.S. in Geology from Texas A&M University. She enjoys outdoor activities such as rock climbing, hiking, and playing tennis. Additionally, she enjoys playing the piano and cooking. She is passionate about geochemistry and hopes to continue working with heavy metals in water sources. Calli would like to thank the GSA, the MGPV Division, and the Howard and Jean Lipman Foundation for their support of her research.