



Initiating the Drilling and Research In Volcanic Environments (**DRIVE**) in the US: Steering towards new scientific discoveries and exploration of geothermal energy

Executive Summary:

Magmatic Systems

- Volcano stratigraphy:*** What is the life cycle of a magma?
- Magma storage and plumbing systems:*** At what pressure and temperature are magmas stored in the upper crust?
- Geothermal and hydrothermal systems:*** What is the coupling between magmas, hydrothermal systems, and ore deposits?
- Faults and magmas:*** How do magma reservoirs and volatiles perturb the regional tectonic stress and cause earthquake?

