

## Arkansas Valley Geothermal

Registration for this trip includes box lunch, water, snacks, and transportation

**Leaders:** Frederick B. Henderson III PhD, Mt. Princeton Geothermal LLC,  
Paul Morgan PhD, Colorado Geological Survey

*Structural Geology and Geothermal Energy Potential of the Northern Rio Grande Rift Zone,  
Upper Arkansas Valley, Chaffee County, Colorado*

This Field trip will traverse the Upper Arkansas Valley, Chaffee County, Colorado which is underlain by a northern segment of the Rio Grande Rift Zone and contains several developed hot springs which appear to be connected to deep peripheral geothermal reservoirs in rift zone valley fill sediments that could contain sustainable 300°F geothermal water sufficient to supply plants of 10MW or more of electrical energy to the adjacent grid. These targets are well defined by reworked and recent geochemical data, thermal gradient measurements, structural projections, magnetotellurics measurement and AirMag surveys. This deep peripheral exploration model is believed to apply to some other areas in Colorado.