

## **EarthScope National Meeting - Pre-meeting field trip May 12, 2009 (full day):**

(Update: January 29, 2009)

### **Deformation and crustal anisotropy of the western Idaho shear zone, Owyhee Mountains, Idaho**

The pre-meeting fieldtrip will investigate inliers of Mesozoic and Early Cenozoic rocks in the Owyhee Mountains, located south of the western Snake River plain. Recent geochronology and isotopic analyses indicate that these rocks are part of the Idaho batholith, separated by the graben of the western Snake River plain. The granitic rocks are affected by the transpressional, mid-Cretaceous western Idaho shear zone. This lithospheric-scale shear zone created a zone of crustal anisotropy that is distinctly different along strike, which is attributed to the original geometry of the North American margin. The fieldtrip will discuss connections between magmatism and deformation in the Owyhee mountains and in the main Idaho batholith.

#### **Trip Leaders:**

Bryn Benford & Basil Tikoff (Wisconsin), Mark Schmitz, Jim Crowley, & C. J. Northrup (Boise State)

Leave: ~8:00 am to return in time for the Icebreaker.

Cost: ~\$50, which includes transportation and lunch – exact cost will be determined by the number of participants.

For more information, please contact [basil@geology.wisc.edu](mailto:basil@geology.wisc.edu)

To register, please contact [earthscope@coas.oregonstate.edu](mailto:earthscope@coas.oregonstate.edu)