

## **SACNAS SESSION PROPOSAL v0.2 - 2/13/06**

**Session Title:** Using data-rich activities to teach about plate tectonics, Earth structure, and earthquakes

**Session Proposal Type:** K-12 Workshop

**Intended Audiences:** Teachers mainly in grades 6 to 12

**Disciplines:** Geophysics (e.g. plate tectonics, earthquakes, and Earth structure)

### **Session Goals:**

Improve participants' confidence when teaching geophysics topics by:

- Increasing teachers' content knowledge of plate tectonics, earthquakes, GPS, and Earth structure
- Providing experience with innovative activities that emphasize higher levels of cognition, use geophysical data, are based on the National Science Education Standards, and are easily transferred to the classroom, and
- Modeling effective pedagogy in the delivery of the above content as recommended by the NRC Professional Development Standards.

**Session Materials:** Participants will receive a binder of curricular materials that corresponds with activities used during the workshop. Teachers will also receive FREE posters, fact sheets and other related resources.

### **Brief Narrative:**

Enhance your Earth science content knowledge while experiencing hands-on, inquiry-based activities that are easily implemented in your classroom. Access to and use of scientific data for classroom instruction will be emphasized. Workshop participants will receive activities descriptions, maps, posters, and other teaching aids. Offered by IRIS & UNAVCO

**Indicate your desired session duration in hours:** 2.5 hours, but would be willing to run a longer workshop (4 hour?) if it fit the agenda.

**Sharing a Session Time:** Yes

### **Session Speakers:**

Dr. Susan Eriksson– UNAVCO, Geodetics Education  
Michael Hubenthal - IRIS Consortium, Seismology Education  
Becca Walker – UNAVCO, Geodetics Education  
Laura Wetzel – Eckerd College, Marine Geophysics  
Dr. Mike Jackson- Plate Boundary Observatory, geophysics

**Sponsorship Information:** National Science Foundation, IRIS Consortium, UNAVCO, Eckerd College