

## **Multidisciplinary Workshop:**

### **Integrated Collaborations in Cascadia and the Walker Lane/Salton Trough**

*Sponsored by NSF, MARGINS and EarthScope-GeoSwath*

*8 AM – 2:45 PM, March 27, Redwood Room, Portola Plaza Hotel, Monterey CA*

8:00-8:10- – Workshop introduction and goals (*Geoff Abers*; introduce committees)

8:10-8:20 – Margins science overview and interests (*Abers*)

8:20-8:30 – GeoSwath overview and interests (*Basil Tikoff*)

8:30-8:35 – Discussion of charges to sub-groups (*Tikoff*)

*8:35 – 8:50 Divide Rooms*

#### **Group I: Walker Lane / Salton Trough**

*Conveners: Danny Stockli, Paul Umhoefer, Susanne Janecke and Roger Buck*

8:50-9:00 – Introduction to discussions; summary of objectives and program

9:00-9:25 – General overview on the Gulf of California – Tectonic evolution, deformation history, and lithospheric structure (*Joann Stock*)

*9:25-9:45 – Coffee Break (or delayed after 1-2 presentations at option of conveners)*

9:45 – 11:00 – Summary talks on ongoing projects in critical regions (15-20 minutes each)

- Salton Trough tectonic evolution, deformation history, lithosphere structure (*Gary Axen*)
- Mojave and Eastern California Shear Zone, tectonic evolution, deformation history, neotectonics (*Mike Oskin*)
- Walker Lane tectonic evolution, deformation, magmatism, lithosphere structure (*Jim Faulds*)
- Walker Lane workshop on EarthScope/GeoSwath (*Danny Stockli*)

*11:00-11:10 - Linking MARGINS and EarthScope; lead into discussion (Paul Umhoefer)*

11:10-12:00 – Discussion: relationships between areas (driving forces, spatial and temporal deformation, etc.), motivations and opportunities in linking questions from different areas.

*12:00-13:00 Lunch*

13:00-13:30 – Discussion within the Gulf of California to Walker Lane group of how what MARGINS and GEOSCOPE could do to build on EarthScope in the SW United States (led by *Danny, Susanne and Roger*).

- Attendees invited to present 1-2 slides to stimulate discussion (*loaded during lunch*)

*13:30-13:45 Room reunification & presenters prepare summaries*

## **Group II: Cascadia Subduction Zone**

*Conveners: Anne Trehu, Tim Melbourne and Paul Wallace*

8:50-9:00 – Introduction to Cascadia discussions; summary of objectives and program (*Paul W.*)

9:00-9:25 – An overview on the Cascadia Subduction Zone – Lithospheric structure deformation history, and earthquake hazard (*Ray Wells*)

9:25-9:45 – *Coffee Break (or delayed after 2-4s presentations at option of conveners)*

9:45-11:00 – Summaries of ongoing projects (5-10 min each)

- ORION/OOI (*Kevin Brown*)
- Offshore geodetic monitoring (*Dave Chadwell/Kevin Brown*)
- Geodetic monitoring (*Tim Melbourne*)
- Leveling studies and the potential for InSaR and Lidar (*Paul Vincent*)
- CAFE experiment (*Geoff Abers/Ken Creager/ Stephane Rondenay*)
- High Lava Plains CD experiment (*Matt Fouch/ Tim Grove*)
- Onshore and offshore paleoseismic record
- High resolution seismics and urban seismic hazards (*Tom Pratt*)
- Central Cascadia margin – earthquakes and crustal structure (*Anne Trehu*)
- Volcano hazards studies of Cascade stratovolcanoes (*Tom Sisson*)

11:00-12:00 – Discussion within the Cascadia group of how what MARGINS and GEOSCOPE could do to build on EarthScope in Cascadia (led by *Paul, Tim and Anne*).

*12:00-13:00 Lunch*

13:00-13:30 – Continued discussion within the Cascadia group of how what MARGINS and GEOSCOPE could do to build on EarthScope in Cascadia (led by *Paul, Tim and Anne*).

- Attendees invited to present 1-2 slides to stimulate discussion (*loaded during lunch*)

13:30-13:45 *Room reunification & presenters prepare summaries*

## **Plenary Session**

13:45-14:45 – Wrap up session (led by *Geoff Abers and Basil Tikoff*)

- 10-15 minute summaries from each group.
- General discussion of what is missing in current projects and what needs to be done in the context of Margins/EarthScope/ GeoSwath.

*14:45 Meeting adjourned. Meeting organizers and sub-group leaders meet to outline meeting report and get writing assignments.*