

Earthscope Imaging Science/Computational Infrastructure for Geodynamics Workshop

Tuesday October 31 to Thursday November 2, 2006

*Knight Conference Center
Washington University St. Louis*

Monday 30 October:

6:30 PM Shuttle from Sheraton
7:00-9:00 PM Icebreaker in Knight Conference Center Bar: Snacks and cash bar
9:30 PM Shuttle to Sheraton

Tuesday 31 October

8:30 – 10:00 AM CIG Talk 1 SPEC-FEM: Jeroen Tromp
10:00-10:30 AM Coffee Break
10:30-12:00 AM Imaging Science Talks
1) What's an imaging system: Alan Levander
2) Acquisition, geometry, and image reconstruction:
Steph ane Rondenay
12:00-1:30 PM Lunch
1:30-6:00 PM Parallel Tutorial Sessions
CIG Tutorial: SPEC-FEM
IS Tutorial: Geometry & Resolution: Levander/Rondenay
3:00-3:30 Afternoon break
7:00-8:00 PM Dinner
8:00-9:00 PM Visualization presentation/demo/discussion Chuck Meertens

Wednesday 1 November

8:30 – 10:00 AM CIG Talk 2: Normal Modes Synthetics: Guy Masters
10:00-10:30 AM Coffee Break
10:30-12:00 AM Imaging Science Talks:
1) The Earth's impulse response: Gary Pavlis
2) Signal conditioning: Rick Aster
12:00-1:30 PM Lunch
1:30-6:00 PM Parallel Tutorial Sessions
CIG: Modes code tutorial: Misha Barmin
IS: Receiver functions and signal conditioning: Pavlis/Aster
3:00-3:30 Afternoon break

6:00-7:00 PM Visualization tutorial: Chuck Meertens
8:00-9:00 PM Dinner

Thursday 2 November

8:30-9:30 CIG Directions discussion
9:30-10:30 Imaging Science Directions – discussion
1) Benchmarks
2) Model exchange
3) What will it take to do 3D? Facilities, instruments,
algorithms
4) Next workshop

10:30-11:00 Coffee break

11:00-12:00 Research talks

Rob van der Hilst: 3-D seismic exploration of the lowermost mantle with inverse
scattering and statistical inference
Don Helmberger: A tour around D"

The meeting concludes at noon. Lunch is NOT provided.