

Monday, March 28

Pre-meeting Activities

- ▶ 11:00am – 9:00pm
Registration
Poster Setup Mountain Foyer
Ballroom ABCD
- ▶ 12:00pm – 10:00pm
Pre-meeting Activities
- 12:00pm - 5:00pm Appalachian Geologic Province and
Eastern North America Meeting Hawk C
Krishna Sinha
- 12:00pm - 9:00pm SNARF Meeting Council Boardroom
Geoffrey Blewitt
- 2:00pm - 5:30pm Rocky Mountain II EarthScope Workshop Badger B
Rick Aster and Karl Karlstrom
- 2:00pm - 6:00pm 3D Seismic Reflection at SAFOD Site Workshop Hawk AB
Simon Klemperer
- 2:00pm - 9:00pm GeoTraverse Workshop Badger A
Ben van der Pluijm and Basil Tikoff
- 3:00pm - 6:00pm EarthScope Data Working Group Meeting Badger C
Christel Hennet
- 7:00pm - 9:00pm Intraplate Deformation Studies Workshop Wolf AB
Walter Mooney
- 7:00pm - 10:00pm EarthScope Data Analysis Software Toolbox Wolf C
Colin Zelt
- ▶ 6:00pm – 8:00pm
Student and Postdoc Icebreaker Puma AB
- ▶ 7:00pm – 9:00 pm
EarthScope Workshop General Forum Eagle B

Tuesday, March 29

State of EarthScope – Science, Community, and Facility

- ▶ 7:00am – 6:00pm
Registration Mountain Foyer
- ▶ 8:00am – 10:00am

The State of EarthScope

Organizing Committee

Ballroom EFGH

8:00am EarthScope National Meeting Welcome
Organizing Committee

8:15am **Keynote Talk:** Yellowstone Hotspot: Integrative Research
and Complimentary Goals of EarthScope
Robert Smith

9:00am NSF EarthScope Update
Kaye Shedlock

9:30am EarthScope and You: What is the EarthScope Facility
and How Can Researchers Use It?
Gregory van der Vink

▶ 10:00am – 10:30am
Break

Ballroom ABCD

▶ 10:30am – 12:30pm
Community Workshop Overviews
Organizing Committee

Ballroom EFGH

10:30am Thermal Processes and EarthScope Science
Kevin Furlong

10:45am GreatBREAK Workshop
John Anderson

11:00am Rocky Mountain Workshop
Rick Aster and Karl Karlstrom

11:15am Southern Basin and Range Workshop
Matthew Fouch

11:30am Northern Rockies Workshop
David Foster and Paul Mueller

11:45am USArray and the Great Plains Workshop
Mary Hubbard

12:00pm Mid-America Workshop Results
Mary Hubbard

12:15pm Appalachians Workshop
Krishna Sinha

▶ 12:30pm – 1:30pm
Lunch

Veranda

▶ 1:30pm – 3:30pm
Community Workshop Overviews (continued)
Organizing Committee

Ballroom EFGH

1:30pm Integrated Solid Earth Sciences Workshop
Ben van der Pluijm

1:45pm SAFOD Sample Characterization Workshop
James Evans

2:00pm	SAFOD-3D: A Community Initiative for 3D Seismic Reflection Imaging of the San Andreas Fault: Report of a Workshop at the EarthScope National Meeting <i>Simon Klemperer</i>	
2:15pm	North American Intraplate Deformation and Seismicity <i>Walter Mooney</i>	
2:30pm	Complementary Geophysics: Adding Value to EarthScope Science <i>Tom Henyey</i>	
2:45pm	Workshops for Establishing a Stable North American Reference Frame (SNARF) to Enable Geophysical and Geodetic Studies with EarthScope: Annual Report 2004-2005 <i>Geoffrey Blewitt</i>	
3:00pm	Observational Strategies Related to EarthScope for an InSAR Mission <i>Andrea Donnellan</i>	
3:15pm	EarthScope Data Analysis Software Toolbox <i>Colin Zelt</i>	
▶ 3:30pm – 4:00pm	Break	Ballroom ABCD
▶ 4:00pm – 6:00pm	Poster Session	Ballroom ABCD
▶ 7:00pm – 8:30pm	Welcoming Banquet	Ballroom EFGH
▶ 8:30pm – 10:00pm	Poster Session	Ballroom ABCD

Wednesday, March 30

Science, Education, and Outreach

▶ 7:00am – 6:00pm	Registration	Mountain Foyer
▶ 8:00am – 9:30am	Early Results from SAFOD <i>William Ellsworth and Rick Carlson</i>	Ballroom EFGH
8:00am	Mineral Assemblages of SAFOD: Implications for Fault Properties <i>Ben van der Pluijm</i>	
8:15am	Integrated Studies of Fault Zone Structure and Earthquake Geology	

- Along the San Andreas Fault at Parkfield
Ramon Arrowsmith
- 8:30am Magnetotelluric Imaging of Fault Zone Structure at the SAFOD Site
Martyn Unsworth
- 8:45am Frictional Strength Heterogeneity and Surface Heat Flow; Implications for the Strength of the Creeping San Andreas Fault
Matthew d'Alessio
- 9:00am Evolution of an Experiment: The PASO Array and SAFOD
Cliff Thurber
- 9:15am Slip on the San Andreas Fault at Parkfield, CA Through Two Earthquake Cycles
Jessica Murray
- ▶ 9:30am – 10:30pm
EarthScope Education and Outreach Ballroom EFGH
David Mogk and Rick Aster
- 9:30am Increasing Geoscience Literacy and Public Support for the EarthScope National Science Initiative: Museum Exhibits, Educational Programming, and Public Outreach
Jayne Aubele
- 9:45am Incorporating Plate Boundary Observatory and Other EarthScope Data Products in Broader Objectives for Geoscience Education and Outreach: 2005 Activities
Susan Eriksson
- 10:00am EarthScope and National Park Service – Partners in Education and Outreach
Linda Lutz-Ryan
- 10:15am Access to USArray Data for Education and Public Outreach
Thomas Owens
- ▶ 10:30am – 11:00am
Break Ballroom ABCD
- ▶ 11:00am – 12:30pm
Strength and Strain Ballroom EFGH
Wayne Thatcher and Karl Karlstrom
- 11:00am Developing a Methodology for Measuring Stress Transients at Seismogenic Depth
Paul Silver
- 11:15am Recent Observations of Episodic Tremor and Slip Along the Northern Cascadia Margin
Herb Dragert
- 11:30am InSAR Time Series Analysis of Surface Deformation for the Metropolitan Los Angeles and San Francisco, California, Areas
Paul Lundgren

- 11:45am Borehole Recordings of Fluid Pressure, Strain, and Microearthquakes at Long Valley Caldera, California, Following the September, 2004, Adobe Hills Earthquake Swarm and the December 26, 2004, M9.0 Sumatra Earthquake
Evelyn Roeloffs
- 12:00pm Heat Flow Data as an Indicator of Fault Strength: Insights from a Hydrologic Perspective
Demian Saffer
- 12:15pm A Physical Model of the Western U.S. Strain Rate Field
Fred Pollitz
- ▶ 12:30pm – 1:30pm
Lunch Veranda
- ▶ 1:30pm – 2:45pm
The Lithosphere Ballroom EFGH
Walter Mooney and Rick Aster
- 1:30pm Characterization of Continental Mantle in an Active Rift Zone: Kilbourne Hole, New Mexico
Elizabeth Anthony
- 1:45pm Tomography of the North American Upper Mantle Using Global and Regional Datasets
Meredith Nettles
- 2:00pm Seismic Bright Spots, Magmatism and Fluids in the Deep Crust
Larry Brown
- 2:15pm Lithospheric Structure of Eastern North America: Unique EarthScope Opportunities
Robert Hatcher
- 2:30pm Seismic Anisotropy and Flow Across Continental North America
Mark Behn
- ▶ 2:45pm – 3:15pm
Break Ballroom ABCD
- ▶ 3:15pm – 4:30pm
The Lithosphere (continued) Ballroom EFGH
Walter Mooney and Rick Aster
- 3:15pm Mapping Upper-mantle Anisotropy in Western U.S.: Constraints on Crust-mantle Coupling
Mousumi Roy
- 3:30pm Crust and Uppermost Mantle Structure Beneath the Southern Basin and Range/Colorado Plateau: Results from the COARSE Broadband Seismometer Array and Goals for Regional USArray Studies
Matthew Fouch
- 3:45pm Velocity Model from the 2004 Stanford University Seismic Experiment: A 260 km Refraction/Reflection/Teleseismic Survey in the Northwestern Basin and Range
Derek Lerch

- 4:00pm Delamination Origin for Columbia River Flood Basalts and Wallowa
Eugene Humphreys
- 4:15pm The Cordilleran Orogen: An Andean-type Eocene continental plateau?
Christian Teyssier
- ▶ 4:30pm – 6:00pm
Poster Session Ballroom ABCD
- ▶ 6:00pm – 7:00pm
Dinner Ballroom EFGH
- ▶ 7:00pm – 9:00pm
Earth Science Mini-courses Ballroom EFGH
Walter Mooney and Rick Aster
- 7:00pm Geoscience E&O and 'Edu-speak' for Geoscience Researchers
Steven Semken
- 7:30pm Principles of GPS and GPS-determined Velocity Fields for the Non-geodesist – And a Peek at the Latest Gear
Charles Meertens
- 8:00pm Understanding Tomograms, Receiver Functions, and Seismic Anisotropy for the Non-seismologist
Matthew Fouch
- 8:30pm Topics in the Earthquake Process: Rock Physics, Fault Mechanics, and Rheology for the Non-rock Squeezer
Chris Marone

Thursday, March 31

The EarthScope Vision

- ▶ 8:30am – 10:15am
A Decadal Vision of EarthScope – The View Forward Ballroom EFGH
Robert Smith and Gregory van der Vink
- 8:30am Computational Infrastructure for Geodynamics (CIG)
Michael Gurnis
- 8:45am Synergy Between Active and Passive Seismic Techniques in Integrated Studies of Lithospheric Structure
Randy Keller
- 9:00am Opportunities and Challenges for EarthScope-leveraged 3D Superexperiments to Resolve the Nature of Mantle Velocity Domains and the Heterogeneous Structure and Polyphase Evolution of the Continental Lithosphere: Case Study from

- the Southern Rocky Mountains
Karl Karlstrom
- 9:15am Enhancing the EarthScope Image: A View of Deep and Middle Crustal Processes in Isobarically Cooled Terranes
Michael Williams
- 9:30am The Electromagnetic View of Continental Dynamics: U.S. Experience and the Potential of EarthScope
Philip Wannamaker
- 9:45am The North American Upper Mantle: Density, Composition, and Evolution
Walter Mooney
- 10:00am NASA's Activities in Support of the Developing EarthScope Program
John LaBrecque
- ▶ 10:15am – 10:45am
Break Ballroom ABCD
- ▶ 10:45am – 12:00pm
Future of EarthScope
General Assembly and Session Chairs Ballroom ABCD
- ▶ 12:30pm – 6:00pm
Field Trip to Jemez Caldera
Meet in Tamaya Lobby
For more information see Page 33.