

Fall AGU 2009 – EarthScope Relevant Sessions

Thursday Evening – 1930 - 2030

Room 2003 (Moscone West) EarthScope Town Hall Meeting!

Monday Morning 1 – 8000

- C11A 3014 (Mos. West) Monitoring and Quantifying Glacier Dynamics I
Chair: D. C. Finnegan, L. A. Stearns
- DI11A 2003 (Mos. West) Seismic Discontinuities, Phase Transitions, and
Compositional Boundaries in the Earth's Mantle I Chair: A. F. Deuss, A.
Khan
- S11A Poster (Mos. South) Seismic Anisotropy, Mantle Flow, and Fault
Mechanics: The Silver Lining I Posters Chair: S. C. Solomon, D. E. James
- S11B Poster (Mos. South) Seismic Networks and Instrumentation Posters
Chair: D. S. Neuhauser, J. D. Otero
- S11C 2005 (Mos. West) Joint Inversion of Seismic and Multidisciplinary
Geophysical Data I Chair: M. Moorkamp, E. Roux
- T11C Poster (Mos. South) The Many Faces of Slow Slip, Tremor, and
Earthquakes I Chair: H. Houston
- T11D 2009 (Mos. West) Earthquakes at the Edge: Observing and
Understanding Transitions of Seismogenic Properties and Processes Along
Subduction Zones I Chair: S. Saito, G. A. Spinelli
- T11E 2007 (Mos. West) Lithosphere and Asthenosphere Interaction: Top
Down or Bottom Up? I Chair: R. Meyer, J. W. van Wijk
- T11F 2011 (Mos. West) Tectonic Processes at Continental Transform Faults I
Chair: P. M. Fulton, R. N. Harris

Monday Morning 2 – 1020

- A12B 3002 (Mos. West) Atmospheric Acoustics for the Geosciences I Chair:
C. D. deGroot-Hedlin, D. P. Drob, R. Waxler
- C12A 3014 (Mos. West) Monitoring and Quantifying Glacier Dynamics II
Chair: D. C. Finnegan, S. O'Neel

- DI12A 2003 (Mos. West) Seismic Discontinuities, Phase Transitions, and Compositional Boundaries in the Earth's Mantle II Chair: J. W. Hernlund, S.-H. Shim
- T12A 2009 (Mos. West) Earthquakes at the Edge: Observing and Understanding Transitions of Seismogenic Properties and Processes Along Subduction Zones II Chair: S. P. S. Gulick, R. N. Harris
- T12B 2007 (Mos. West) Fault Processes in Nature and Laboratory: From Microscale to 3-D Regional Observations and Models I Chair: C. M. Krawczyk, E. Masana
- T12C 2011 (Mos. West) Tectonic Processes at Continental Transform Faults II Chair: G. M. Schmalzle, P. M. Fulton

Monday Afternoon 1 – 1340

- A13D Poster (Mos. South) Atmospheric Acoustics for the Geosciences II Chair: D. P. Drob
- ED13D Poster (Mos. South) Using Digital Information Resources and Findings from Major Research Initiatives to Transform Undergraduate Instruction I Posters Chair: A. M. Goodwillie
- DI13A Poster (Mos. South) Seismic Discontinuities, Phase Transitions, and Compositional Boundaries in the Earth's Mantle III Posters Chair: E. A. Day
- S13B Poster (Mos. South) Joint Inversion of Seismic and Multidisciplinary Geophysical Data III Posters Chair: E. Roux, M. Moorkamp
- S13C 2005 (Mos. West) Seismic Anisotropy, Mantle Flow, and Fault Mechanics: The Silver Lining II Chair: S. C. Solomon, D. E. James
- T13B Poster (Mos. South) Lithosphere and Asthenosphere Interaction: Top Down or Bottom Up? II Posters Chair: R. Meyer, S. Pilet
- T13C Poster (Mos. South) Tectonic Processes at Continental Transform Faults III Chair: B. Carpenter, K. J. McDonald
- T13D Poster (Mos. South) The Many Faces of Slow Slip, Tremor, and Earthquakes II Chair: C.-Y. King

- T13E 2009 (Mos. West) Earthquakes at the Edge: Observing and Understanding Transitions of Seismogenic Properties and Processes Along Subduction Zones III Chair: S. Bilek, E. Screaton
- T13F 2007 (Mos. West) Fault Processes in Nature and Laboratory: From Microscale to 3-D Regional Observations and Models II Chair: P. Eichhubl, C. Tuitz

Monday Afternoon 2 – 1600

- DI14A 2003 (Mos. West) Subducting Slabs: Integrating Seismic Properties From Laboratory Data and Field Observations I Chair: I. Daniel, J. D. Bass, C. Sanchez-Valle, B. Reynard
- S14A 2005 (Mos. West) Seismic Anisotropy, Mantle Flow, and Fault Mechanics: The Silver Lining III Chair: S. C. Solomon, D. E. James
- T14A 2009 (Mos. West) Earthquakes at the Edge: Observing and Understanding Transitions of Seismogenic Properties and Processes Along Subduction Zones IV Chair: G. F. Moore, A. Vern Newman
- T14B 2007 (Mos. West) Fault Processes in Nature and Laboratory: From Microscale to 3-D Regional Observations and Models III Chair: S. J. Martel, D. C. Tanner

Tuesday Morning 1 – 8000

- U21B Poster (Mos. South) The Nature, Frequency, Size and Consequences of Instabilities of the Continental Lithosphere I Posters Chair: C. M. Cooper, S. Zlotnik
- DI21A Poster (Mos. South) Subducting Slabs: Integrating Seismic Properties From Laboratory Data and Field Observations II Posters Chair: L. Bezacier
- DI21B 2003 (Mos. West) Discoveries of the Earth's Deep Mantle I Chair: L. Wen, T. Duffy
- G21A 3022 (Mos. West) Real-Time GPS: Current Progress in Network Implementation and Data Analysis Strategies I Chair: J. R. Murray-Moraleda, F. Webb, T. I. Melbourne
- S21A Poster (Mos. South) Monitoring Temporal Changes of Earth's Properties With Seismic Waves I Posters Chair: F. Brenguier

- S21B Poster (Mos. South) Non-Double-Couple Seismic Sources: Determination, Resolution, and Uncertainty Posters Chair: B. R. Julian, S. R. Ford, D. S. Dreger, G. R. Foulger
- S21D 2007 (Mos. West) Locating and Characterizing Seismic Noise Sources I Chair: K. D. Koper, D. E. McNamara
- T21B Poster (Mos. South) Earthquake Cycle Deformation: Moving Beyond Kinematic Elastic Models I Posters Chair: E. A. Hetland, K. M. Johnson
- T21C Poster (Mos. South) Earthquakes at the Edge: Observing and Understanding Transitions of Seismogenic Properties and Processes Along Subduction Zones V Posters Chair: Y. Kano, J. Guo
- T21D Poster (Mos. South) Fault Processes in Nature and Laboratory: From Microscale to 3-D Regional Observations and Models IV Chair: S. Nippres, X. Moreno
- T21F 2009 (Mos. West) The Many Faces of Slow Slip, Tremor, and Earthquakes III Chair: P. Bodin, J. R. Brown

Tuesday Morning 2 – 1020

- G22A 3022 (Mos. West) Plate Motion and Plate Boundaries I Chair: J. T. Freymueller, R. M. S. Fernandes, D. Argus
- NG22A 309 (Mos. South) Active Monitoring and Earthquake Statistics Chair: M. Semenovich Zhdanov, M. R. Yoder
- S22B 2007 (Mos. West) Locating and Characterizing Seismic Noise Sources II Chair: D. E. McNamara, K. D. Koper
- T22B 2009 (Mos. West) The Many Faces of Slow Slip, Tremor, and Earthquakes IV Chair: J. Gomberg, W. H. Schulz

Tuesday Afternoon 1 – 1340

- U23D Poster (Mos. South) Mantle Heterogeneity: Bridging the Gap Between Observations and Dynamics I Posters Chair: T. W. Becker, R. Caracas
- C23C Poster (Mos. South) Monitoring and Quantifying Glacier Dynamics III Posters Chair: S. O'Neel

- DI23A Poster (Mos. South) Discoveries of the Earth's Deep Mantle II Posters
Chair: A. R. Oganov
- G23A Poster (Mos. South) Advances in Geodetic Imaging of the Earthquake
Cycle and Land Surface Processes I Posters Chair: E. J. Fielding, R. L.
Shrestha
- G23B** Poster (Mos. South) Geodetic Studies of Strike-Slip Fault Systems: Results
in Light of **EarthScope** I Posters Chair: I. A. Johanson, J. R. Murray-
Moraleda
- G23D 3022 (Mos. West) Plate Motion and Plate Boundaries I Chair: R. M. S.
Fernandes, D. Argus, J. T. Freymueller
- NG23A Poster (Mos. South) Active Monitoring in Solid Earth Geophysics Posters
Chair: V. A. Korneev, M. Semenovich Zhdanov
- NG23B Poster (Mos. South) Statistics of Earthquakes on Complex Fault Systems
Posters Chair: D. L. Turcotte, J. B. Rundle
- S23A Poster (Mos. South) Locating and Characterizing Seismic Noise Sources III
Posters Chair: M. L. Pyle
- S23B Poster (Mos. South) Observation and Analysis of Natural and Induced
Microearthquakes I Posters Chair: V. Oye, J. T. Rutledge, S. Buske, J. A>
Chavarria
- S23C 2005 (Mos. West) Monitoring Temporal Changes of Earth's Properties
With Seismic Waves II Chair: E. F. Larose, C. Sens-Schoenfelder
- T23B Poster (Mos. South) Earthquakes at the Edge: Observing and
Understanding Transitions of Seismogenic Properties and Processes Along
Subduction Zones VI Posters Chair: S. A. Barrett, A. M. Lopez
- T23C Poster (Mos. South) Fault Processes in Nature and Laboratory: From
Microscale to 3-D Regional Observations and Models V Chair: A. Thomas, T.
Suguru Ide
- T23E 2009 (Mos. West) The Many Faces of Slow Slip, Tremor, and
Earthquakes V Chair: D. R. Shelly, R. Burgmann

Tuesday Afternoon 2 – 1600

- ED13D 3020 (Mos. West) Using Digital Information Resources and Findings
from Major Research Initiatives to Transform Undergraduate Instruction I

- Posters
Goodwillie Chair: J. G. Ryan, D. L. Reed, C. A. Manduca, A. M.
- G24A 103 (Mos. South) **Bowie Lecture: J. Freymueller** Chair: J. L. Davis, M. King
- S24A 104 (Mos. South) Monitoring Temporal Changes of Earth's Properties With Seismic Waves III Chair: E. F. Larose, F. Brenguier
- S24B 104 (Mos. South) **Gutenberg Lecture: J. Vidale** (session at **1710** – will be Webcast) Chair: R. D. van der Hilst
- T24A 2009 (Mos. West) Earthquake Cycle Deformation: Moving Beyond Kinematic Elastic Models II Chair: E. A. Hetland, K. M. Johnson

Wednesday Morning 1 – 8000

- G31A 3022 (Mos. West) Advances in Geodetic Imaging of the Earthquake Cycle and Land Surface Processes II Chair: A. J. Hooper, W. E. Carter
- S31E 2005 (Mos. West) Observation and Analysis of Natural and Induced Microearthquakes II Chair: J. A. Chavarria, V. Oye
- T31F 2007 (Mos. West) Continental Deformation and Rheological Complexity I Chair: K. Regenauer-Lieb, N. Mancktelow

Wednesday Morning 2 – 1020

- G32A 3022 (Mos. West) Detection and Characterization of Transient Crustal Deformation I Chair: J. O. Langbein, J. R. Murray-Moraleda, R. B. Lohman
- S32B 2005 (Mos. West) Observation and Analysis of Natural and Induced Microearthquakes III Chair: J. T. Rutledge, S. Buske
- T32C 2007 (Mos. West) Continental Deformation and Rheological Complexity II Chair: G. Rosenbaum, R. Ferrez Weinberg

Wednesday Afternoon 1 – 1340

- U33C 103 (Mos. South) The Nature, Frequency, Size and Consequences of Instabilities of the Continental Lithosphere II Chair: L. N. Moresi, C. M. Cooper

- DI33A Poster (Mos. South) Composition, Structure, and Thermodynamics of the Earth's Core I Posters Chair: D. Antonangeli, A. F. Deuss
- G33A Poster (Mos. South) Detection and Characterization of Transient Crustal Deformation II Posters Chair: J. O. Langbein, R. B. Lohman , J. R. Murray-Moraleda
- G33B Poster (Mos. South) Plate Motion and Plate Boundaries III Posters Chair: J. T. Freymueller , D. Argus, R. M. S. Fernandes
- G33C Poster (Mos. South) Real-Time GPS: Current Progress in Network Implementation and Data Analysis Strategies II Posters Chair: J. R. Murray-Moraleda, T. I. Melbourne
- S33A Poster (Mos. South) Advances in Signal Processing Methods for Seismology I Posters Chair: H. Yao, O. V. Poliannikov
- S33D 2007 (Mos. West) Research and Development in Nuclear Explosion Monitoring II Chair: A. Michelini, K. Suyehiro
- T33A Poster (Mos. South) Continental Deformation and Rheological Complexity III Posters Chair: R. Ferrez Weinberg, K. Regenauer-Lieb, G. Rosenbaum

Wednesday Afternoon 2 – 1600

- G34A** 3022 (Mos. West) Geodetic Studies of Strike-Slip Fault Systems: Results in Light of **EarthScope** II Chair: I. A. Johanson, G. J. Funning

Thursday Morning 1 – 8000

- U41D 103 (Mos. South) Scientific Progress in Geophysics from 25 Years of Sharing Data and Resources I Chair: G. Nolet, D. E. James
- DI41B Poster (Mos. South) Seismic Anisotropy and Geodynamics I Posters Chair: K. M. Fischer, E. Kaminski, G. Hirth
- DI41C Poster (Mos. South) Structure and Dynamics of the Earth's Upper Mantle and Transition Zone: The Role of Water I Posters Chair: A. Lenardic
- S41B Poster (Mos. South) Progress in Imaging Earth's Attenuation Structure I Posters Chair: T. M. Hearn, Y. K. Hwang

S41F 2007 (Mos. West) Earthquake Swarms, Seismicity, and Tectonics in the Columbia Basin, Washington Chair: A. Rohay, J. S. Gomborg

V41A Poster (Mos. South) A Multidisciplinary Look at Volcanism in Continental and Oceanic Plate Interiors I Posters Chair: A. K. Tibbetts, Y. Yang

V41B Poster (Mos. South) Cenozoic Volcanism in Western North America: Plumes, Drips, Extension, and/or Subduction? I Posters Chair: G. Humphreys, M. R. Reid

Thursday Morning 2 – 1020

U42A 103 (Mos. South) Mantle Heterogeneity: Bridging the Gap Between Observations and Dynamics II Chair: F. Albarede, J. Ritsema

DI42A 2003 (Mos. West) Composition, Structure, and Thermodynamics of the Earth's Core II Chair: D. Antonangeli, A. F. Deuss

Thursday Afternoon 1 – 1340

DI43A 2003 (Mos. West) Structure and Dynamics of the Earth's Upper Mantle and Transition Zone: The Role of Water II Chair: A. Lenardic, T.-R. Alex Song, S. Jacobsen, S.-I. Karato

V43A Poster (Mos. South) Ash Plumes, Lava Domes, Lahars, and Explosions: The 2009 Eruption of Redoubt Volcano, Alaska I Posters Chair: C. F. Waythomas, P. Webley, K. F. Bull

Thursday Afternoon 2 – 1600

S44A 2005 (Mos. West) Progress in Imaging Earth's Attenuation Structure II Chair: C. A. Dalton, M. E. Pasyanos

T44B 2009 (Mos. West) Rifts and Basins of the U.S. Interior: A New **EarthScope** Frontier I Chair: S. van der Lee, G. R. Keller, M. B. Magnani, B. A. van der Pluijm

Thursday Evening – 1930 - 2030

2003 (Moscone West) EarthScope Town Hall Meeting!

Friday Morning 1 – 8000

- U51C Poster (Mos. South) Scientific Progress in Geophysics from 25 Years of Sharing Data and Resources II Posters Chair: D. E. James, R. Butler
- U51D** 103 (Mos. South) The **EarthScope** Initiative: From North America Geodynamics to New Frontiers in Science I Chair: L. M. Flesch, C. M. Puskas
- DI51A 2003 (Mos. West) Seismic Anisotropy and Geodynamics II Chair: E. Kaminski, K. M. Fischer
- ED51A Poster (Mos. South) Representing Geoscience Data: For Research, Instruction, and Communicating With the Public I Posters Chair: D. W. Mogk, C. A. Manduca
- G51B Poster (Mos. South) Ground-Based Geodetic Techniques and Science Applications I Posters Chair: D. A. Phillips, G. W. Bawden, B. Brooks
- S51C Poster (Mos. South) The Debate on the Extent to Which Static or Dynamic Stresses Trigger Earthquakes I Posters Chair: Z. Peng, K. H. Chen
- V51A 2016 (Mos. West) Ash Plumes, Lava Domes, Lahars, and Explosions: The 2009 Eruption of Redoubt Volcano, Alaska II Chair: P. Webley, C. F. Waythomas, K. F. Bull

Friday Morning 2 – 1020

- U52A** 103 (Mos. South) The **EarthScope** Initiative: From North America Geodynamics to New Frontiers in Science II Chair: M. A. H. Hedlin, K. M. Larson
- DI52A 2003 (Mos. West) Seismic Anisotropy and Geodynamics III Chair: G. Hirth, E. Lev
- T52B 2011 (Mos. West) Fluid-Rock Interactions in Shallow Fault Zones: Implications for Fault Processes and Mechanical Behavior I Chair: A. M. Schleicher, C. Verdel

Friday Afternoon 1 – 1340

- U53A** Poster (Mos. South) The **EarthScope** Initiative: From North America Geodynamics to New Frontiers in Science III Posters Chair: L. M. Flesch, C. M. Puskas

- U53B** Poster (Mos. South) The **EarthScope** Initiative: From North America Geodynamics to New Frontiers in Science IV Posters Chair: M. A. H. Hedlin, K. M. Larson
- ED53A 3020 (Mos. West) Representing Geoscience Data: For Research, Instruction, and Communicating With the Public II Chair: D. W. Mogk, C. A. Manduca
- G53E 3022 (Mos. West) Ground-Based Geodetic Techniques and Science Applications II Chair: Chair: D. A. Phillips, G. W. Bawden, B. Brooks
- S53B 2005 (Mos. West) The Debate on the Extent to Which Static or Dynamic Stresses Trigger Earthquakes II Chair: N. van der Elst, R. S. Stein
- T53C Poster (Mos. South) Fluid-Rock Interactions in Shallow Fault Zones: Implications for Fault Processes and Mechanical Behavior II Posters Chair: A. M. Schleicher, C. Verdel
- T53D** Poster (Mos. South) Rifts and Basins of the U.S. Interior: A New **EarthScope** Frontier II Posters Chair: S. van der Lee, B. A. van der Pluijm, M. B. Magnani, G. R. Keller
- V53A 2020 (Mos. West) Cenozoic Volcanism in Western North America: Plumes, Drips, Extension, and/or Subduction? II Chair: R. W. Carlson, M. D. Long

Friday Afternoon 2 – 1600

- S54A 2005 (Mos. West) The Debate on the Extent to Which Static or Dynamic Stresses Trigger Earthquakes III Chair: K. B. Richards-Dinger, S. Toda
- V54A 2020 (Mos. West) A Multidisciplinary Look at Volcanism in Continental and Oceanic Plate Interiors II Chair: E. I. Smith, C. P. Conrad