

## WORKSHOP DAY 3 – Thursday, May 18

- 7:30 AM – 12:00 PM **Registration** » Tikahtnu Foyer
- 8:15 AM – 8:20 AM **Welcome Back and Brief Announcements** » Tikahtnu Ballroom A  
– Jeff Freymueller
- 8:20 AM – 10:00 AM **Fault Systems** » Tikahtnu Ballroom A
- 8:20 AM:** Ten-Kilometer Vertical Moho Offset and Shallow Velocity Contrast Along the Denali Fault from Double-difference Tomography, Receiver Functions, and Fault Zone Head Waves – Amir Allam
- 8:40 AM:** Revisiting Coseismic and Postseismic Deformation Models for the 2002  $M_w$  7.9 Denali, AK, Earthquake – Hugh Harper
- 9:00 AM:** Fault Roots, Shear Zones, and Lithospheric Deformation from Receiver Functions and Rock Sample Anisotropy, with Quantitative Comparisons to Other Structural, Stress, and Strain Observables – Vera Schulte-Pelkum
- 9:20 AM:** Geodesy Advancing Geosciences and EarthScope (GAGE) GPS Result Characterization – Tom Herring
- 9:40 AM:** Seasonal Water Storage Modulating Seismicity in California and Alaska – Chris Johnson
- 10:00 AM – 10:30 AM **Break** » Tikahtnu Foyer
- 10:30 AM – 11:50 PM **Stable (?) Continental Lithosphere** » Tikahtnu Ballroom A
- 10:30 AM:** Uplift of the Intracratonic Adirondack Mountains Driven by Asthenospheric Upwelling – Xiaotao Yang
- 10:50 AM:** Radially Anisotropic Model of Shear Velocity Beneath the Wyoming Craton – Aibing Li
- 11:10 AM:** Applying Cross-Correlation Methods to Broadband and Nodal Data to Detect and Locate Earthquakes Associated with the Socorro Magma Body – Rhiannon Viecele
- 11:30 AM:** An Incomplete Inventory of Suspected Human-Induced Surface Deformation in North America Detected by Satellite Interferometric Synthetic Aperture Radar – Matt Pritchard
- 11:50 PM – 12:00 PM **Farewell** » Tikahtnu Ballroom A  
Meeting Ends, Field Trip Departs

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# 2017 EARTHSCOPE NATIONAL MEETING

Anchorage, AK | May 16–18, 2017



## WORKSHOP DAY 1 – Tuesday, May 16

- 7:30 AM – 5:30 PM **Registration** » Tikahtnu Foyer\*
- 8:15 AM – 8:30 AM **Welcome from the EarthScope National Office** » Tikahtnu Ballroom A  
– Jeff Freymueller
- 8:30 AM – 9:30 AM **EarthScope Synthesis Session: Synthesis of EarthScope Observations** » Tikahtnu Ballroom A
- SEISMOLOGY** » EarthScope: Clearest Images of What's Beneath our Feet, from Sea to Shining Sea – Ved Lekic and Andrew Schaeffer
- GEODESY** » Eye Popping EarthScope Science: A Synthesis, Celebration and Exploration of New Horizons for Geodetic and Geodynamic Imaging – Bill Hammond and Lucy Flesch
- 9:30 AM – 10:20 AM **Imaging the Crust and Lithosphere: Continental Evolution Over Geologic Time** » Tikahtnu Ballroom A
- TOPIC** » What is Distinct and Different about Cratonic Crust and Mantle vs. Phanerozoic Lithosphere?
- 9:30 AM:** Perspective on Cratonic and Phanerozoic Deep Continental Lithosphere from Xenoliths: Geochemical, Petrological, and Microstructural Constraints – Emily Chin
- 9:55 AM:** Seismological Constraints on the Nature of Cratonic Lithosphere and Phanerozoic Lithosphere – Colleen Dalton
- 10:20 AM – 10:45 AM **Break** » Tikahtnu Foyer
- 10:45 AM – 11:10 AM **Orogenesis and Rifting** » Tikahtnu Ballroom A
- Orogenesis, Rifting, and Post-Rift Evolution: What Have We Learned from EarthScope in Eastern North America? – Maureen Long
- 11:10 AM – 12:00 PM **Deep Earth Processes and Their Impact on the Lithosphere** » Tikahtnu Ballroom A
- 11:10 AM:** Seismic Structure Beneath USArray and Implications for Tectonic and Magmatic Activity Away from Plate Margins – Brandon Schmandt
- 11:35 AM:** Impacts of Farallon Subduction on the Evolution of North America – Lijin Liu

\*Please note that all of the Tikahtnu rooms and the Foyer are on the 3<sup>rd</sup> level.

12:00 PM – 1:00 PM	<b>Lunch</b>	» Tikahtnu Ballroom B
1:00 PM – 3:30 PM	<b>Poster Session</b>	» Tikahtnu Ballroom C&F
3:30 PM – 4:00 PM	<b>Break</b>	» Tikahtnu Foyer
4:00 PM – 5:40 PM	<b>Continental Deformation</b>	» Tikahtnu Ballroom A
	<b>4:00 PM:</b> EarthScope Illumination of Melts, Volatiles, Dynamics, and Structure of a Continent – Tony Lowry	
	<b>4:25 PM:</b> A New Opportunity: Learning About Continents and Earthquake Processes Using Induced Seismicity – Katie Keranen	
	<b>4:50 PM:</b> Vertical Motions and the Earthquake Cycle in Southern California – Kaj Johnson	
	<b>5:15 PM:</b> Deformation Without Borders: GPS Results from Alaska and Western Canada – Julie Elliott	
6:00 PM – 8:00 PM	<b>Evening Session</b>	» Tikahtnu Ballroom B
	<b>6:00 PM:</b> Dinner	
	<b>6:45 PM:</b> Presentation of VESS Awards	
	<b>7:00 PM:</b> The Early Days of EarthScope – Jim Whitcomb	
Until 9:00 PM	<b>Evening Posters</b>	» Tikahtnu Ballroom C&F

## WORKSHOP DAY 2 – Wednesday, May 17

7:30 AM – 6:00 PM	<b>Registration</b>	» Tikahtnu Foyer
8:15 AM – 8:30 AM	<b>Welcome Back</b> – Jeff Freymueller	» Tikahtnu Ballroom A
8:30 AM – 10:10 AM	<b>Subduction Zone Structure and Deformation</b>	» Tikahtnu Ballroom A
	<b>8:30 AM:</b> Strong Body-to-Surface Wave Scattering off the Southern California Continental Borderland – Chunquan Yu	
	<b>8:50 AM:</b> Seismic Evidence for a Fossil Slab Origin of the Isabella Anomaly in Central California – Chengxin Jiang	
	<b>9:10 AM:</b> Large-Scale Synthesis Model of the Lithosphere and Upper Mantle in Alaska – Margarete Jadamec	
	<b>9:30 AM:</b> Tremor and Slow Slip Implications for Alaska tectonics – Aaron Wech	
	<b>9:50 AM:</b> Spatial Variation of Slip Behavior Beneath the Alaska Peninsula Including Shumagin and Semidi Islands Along Alaska-Aleutian Subduction Zone – Shanshan Li	

10:10 AM – 10:40 AM	<b>Break</b>	» Tikahtnu Foyer
10:40 AM – 12:00 PM	<b>Alaska</b>	» Tikahtnu Ballroom A
	<b>10:40 AM:</b> Denali on the Move: Advection and Migration in the Mount McKinley Restraining Bend Since ~6 Ma – Sean Bemis	
	<b>11:00 AM:</b> Accretionary Evolution of the Alaskan Crust from Ps Receiver Functions – Meghan S. Miller	
	<b>11:20 AM:</b> Large Vertical Offsets of Moho Coincide with Major Mesozoic Transform Faults in Northern Alaska – Sarah Roeske	
	<i>Alaska session continues at 3 PM...</i>	
12:00 PM – 1:00 PM	<b>Lunch</b>	» Tikahtnu Ballroom B
12:30 PM	<b>Representative from Local Alaska Politics</b>	» Tikahtnu Ballroom B
	– Speaker TBD	
1:00 PM – 3:00 PM	<b>Poster Session</b>	» Tikahtnu Ballroom C&F
3:00 PM – 4:00 PM	<b>Alaska</b> – <i>continued...</i>	» Tikahtnu Ballroom A
	<b>3:00 PM:</b> Slow-to-Fast Earthquake Nucleation in the Lower Crust of Central Alaska – Carl Tape	
	<b>3:20 PM:</b> Constraining the Spatial and Temporal Variability of Atmospheric Conditions to Explore the Infrasonic Detection of Volcanic Eruptions in Alaska – Alex Iezzi	
	<b>3:40 PM:</b> Reaching Rural Teachers with EarthScope Data Through Online Seismology Training – Lea Gardine	
4:00 PM – 4:30 PM	<b>Break</b>	» Tikahtnu Foyer
4:30 PM – 6:00 PM	<b>Outside of the EarthScope Footprint</b>	» Tikahtnu Ballroom A
	<b>4:30 PM:</b> Using Deep Slow Slip in New Zealand to Constrain Slip Partitioning – Noel Bartlow	
	<b>4:50 PM:</b> The Canadian Cordillera Array: Towards an EarthScope-like Program for Canada – Katherine Boggs and Thomas James	
	<b>5:20 PM:</b> Outline of SinoProbe-I and Prospects for SinoProbe-II – Dong Shuwen	
	<b>5:40 PM:</b> Understanding World-Class Mineral Systems and exploring for Mineral Deposits at Depth Using Multi-Scale and Integrated Geophysical Data: A synthesis from SinoProbe – Qingtian Lyu	
6:00 PM – 9:00 PM	<b>Evening Posters</b>	» Tikahtnu Ballroom C&F
	<i>NOTE: Posters must come down by 9 PM Wednesday night. Any poster still up after 9 PM will be discarded.</i>	