



AGU 2017

EARTHSCOPE-RELATED
PRESENTATIONS

*Explore the variety of research fueled by
EarthScope data*

Join us for the EarthScope Town Hall Meeting Today!
Wednesday, 12:30 - 13:30
New Orleans Ernest N. Morial Convention Center - 225-227
[TH33D EarthScope Science and Synthesis](#)

WEDNESDAY, 13 DECEMBER 2017

POSTERS

08:00 - 12:20 | Poster Hall D-F

[NH31B-0218 PBO Borehole Strainmeters and Pore Pressure Sensors: Recording Hydrological Strain Signals](#)

Michael H Gottlieb, Kathleen Marian Hodgkinson, David Mencin, David B Henderson, Wade Johnson, Elizabeth Van Boskirk, Chad Pyatt, and Glen S Mattioli, UNAVCO

[DI31A-0379 3-D S-velocity structure in the lowermost mantle beneath the Northern Pacific](#)

Yuki Suzuki, Kenji Kawai, Robert J Geller, Anselme F E Borgeaud, The University of Tokyo; and Kensuke Konishi, Academia Sinica

13:40 - 18:00 | Poster Hall D-F

[DI33B-0404 Three Types of Earth's Inner Core Boundary](#)

Dongdong Tian, University of Science and Technology of China; Lianxing Wen, Stony Brook University, University of Science and Technology of China

[DI33B-0408 A two-pronged approach to detecting ICB Stoneley modes](#)

Hope Abigail Jaspersen, Jingchen Ye, Jia Shi and Maarten V De Hoop, Rice University

[S33B-0864 Full wave field recording of the vertical strain at SAFOD from local, regional and teleseismic earthquakes](#)

William L Ellsworth, Stanford University; Martin Horst Karrenbach, OptaSense, Inc; and Mark A Zumberge, Univ California San Diego

[S33C-0875 Crustal Structure beneath Alaska from Receiver Functions](#)

Ying Zhang and **Aibing Li**, *University of Houston*

[S33C-0876 Adapting Controlled-source Coherence Analysis to Dense Array Data in Earthquake Seismology](#)

Benjamin Schwarz, **Karin Sigloch** and **Tarje Nissen-Meyer**, *University of Oxford*

[S33C-0881 Long-period Rayleigh wave phase velocity tomography of the U.S.](#)

Jordyn Cloud and **Colleen A Dalton**, *Brown University*

[S33C-0884 Moho Depth and Geometry in the Illinois Basin Region Based on Gravity and Seismic Data from an EarthScope FlexArray Experiment](#)

Dante Dominick Curcio, **Gary L Pavlis**, *Indiana University Bloomington*; **Xiaotao Yang**, *CAS Chinese Academy of Sciences*; **Michael W Hamburger**, *Indiana University Bloomington*; **Henglei Zhang**, *China University of Geosciences Wuhan*; and **Dhananjay Ravat**, *University of Kentucky*

[S33C-0886 Geophysical character of the intraplate Wabash Fault System from the Wabash EarthScope FlexArray](#)

James Andrew Conder, *Southern Illinois University Carbondale*; **Lupei Zhu**, *Saint Louis University*; and **Justin D Wood**, *Southern Illinois University*

[T33B-0701 Using thermal and compositional modeling to assess the role of water in Alaskan flat slab subduction](#)

Sarah Elizabeth Robinson, **Ryan C Porter** and **Thomas D Hoisch**, *Northern Arizona University*

[S33A-0849 Imaging Stress Transients and Fault Zone Processes with Crosswell Continuous Active-Source Seismic Monitoring at the San Andreas Fault Observatory at Depth](#)

Taka'aki Taira, *University of California Berkeley*; **Thomas M Daley**, **Pierpaolo Marchesini**, **Michelle Robertson**, **Todd Wood**, *Lawrence Berkeley National Lab*; and **Fenglin Niu**, *Rice University*

PRESENTATIONS

Wednesday, 08:15 - 08:30 | Location: 225-227

[GP31A-02 Controls on Magmatic and Hydrothermal Processes at Yellowstone Supervolcano: The Wideband Magnetotelluric Component of an Integrated MT/Seismic Investigation](#)

Adam Schultz, *Oregon State University*; **Ninfa L Bennington**, *University of Wisconsin Madison*; **Esteban Bowles-Martinez**, *Oregon State University*; **Naoto Imamura**, *Kyoto University*; **Reagan Alexis Cronin**, **David James Miller**, **Laney Hart**, *University of Wisconsin*; **Rebeca Margarita Gurrola**, *St. Mary's University*; **Bryce Alan Neal**, *University of Maine at Farmington*; **Kathryn Scholz**, *Brown University*; **Brady Fry**, *Oregon State University*; and **Rolando Carbonari**, *University Federico II*

Wednesday, 08:36 - 08:50 | Location: 243-244

[SH31D-03 Mitigating Space Weather Impacts on the Power Grid in Real-Time: Applying 3-D EarthScope Magnetotelluric Data to Forecasting Reactive Power Loss in Power Transformers](#)

L Roy Bonner IV and Adam Schultz, Oregon State University

Wednesday, 09:15 - 09:30 | Location: 225-227

[GP31A-06 Source Biases in Magnetotelluric Transfer Functions due to Pc3/Pc4 \(~10-100s\) Geomagnetic Activity at Mid-Latitudes](#)

Benjamin S Murphy and Gary D Egbert, Oregon State University

Wednesday, 10:20 - 10:35 | Location: 252-254

[NH32A-01 Combined cGPS and InSAR time series for observing subsidence in the southern Central Valley due to groundwater exploitation \(Invited\)](#)

Wesley Neely, Adrian A Borsa and Francesca Silverii, Scripps Institution of Oceanography

Wednesday, 10:50 - 11:05 | Location: 343

[S32D-03 Nucleation and kinematic rupture of the 2017 Mw 8.2 Chiapas Mexico earthquake](#)

Lingsen Meng, Hui Huang, Yuqing Xie, Tian Feng, University of California Los Angeles; Luis A Dominguez, National Autonomous University of Mexico; Jiayuan Han, ITAG Institute of Theoretical and Applied Geophysics; and Paul Mcewan Davis, University of California Los Angeles

Wednesday, 11:20 - 11:35 | Location: 225-227

[GP32A-05 Structural Mapping Along the Central San Andreas Fault-zone Using Airborne Electromagnetics](#)

Katrina Danielle Zamudio, USGS Crustal Geophysics and Geochemistry Science Center Denver; Paul Bedrosian, USGS and Lyndsay B Ball, U.S. Geological Survey, Lakewood

Wednesday, 12:30 - 13:30 EarthScope Town Hall Meeting | Location: 225-227

[TH33D EarthScope Science and Synthesis](#)

Jeffrey Todd Freymueller, University of Alaska Fairbanks and Maggie Benoit, National Science Foundation

Wednesday, 14:22 - 14:29 | Location: 238-239

[ED33B-07 Face Time: Meaningful Public Engagement Through Interactive, In-Person Outreach Efforts](#)

Beth A Bartel, UNAVCO and Maite Agopian, University of Alaska Fairbanks

Wednesday, 14:25 - 14:40 | Location: 220-221

[S33D-04 Time-frequency domain phase weighted stacking and its application to phase velocity extraction from ambient noise's empirical Green's functions](#)

Fenglin Niu, Rice University; **Guoliang Li**, China University of Petroleum and **Yingjie Yang**,
ARC Centre of Excellence for Core to Crust Fluid Systems and GEMOC