



## Wednesday, March 16

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### Check into hotel

After  
3:00 pm

**Holiday Inn - Orangeburg**  
329 Route 303,  
Orangeburg, New York, 10962

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Attendees will carpool to dinner from the hotel (meet in the hotel lobby at 7:00 pm)

7:30 pm

Dinner at **Mountain House Pizza**  
330 Route 340, Sparkill, NY, 10976

## Thursday, March 17

Seminar Room, 1<sup>st</sup> floor of Comer Geochemistry Building

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8:30 am

Carpool from **Holiday Inn** to LDEO

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9:00 am

### Opening Remarks

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#### *Session I: Regional Tomography I: Around the World!*

9:30 am	What's melt got to do with it? Constraints on the thermomechanical state of the upper mantle beneath two end member localities in the East African Rift System using seismic observables	Natalie Accardo	LDEO
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10:00 am	Ongoing erosion of the Wyoming cratonic lithosphere revealed by seismic velocity	Riddhi Dave	University of Houston
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10:30 am **Discussion – Introductions and Coffee**

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#### *Session II: Regional Tomography II: Alaska*

Hosted by:

Lamont-Doherty Earth Observatory  
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<b>11:30 am</b>	Imaging the Alaskan subduction zone with teleseismic body wave tomography	Robert Martin-Short	UC Berkeley
<b>12:00 pm</b>	Multiscale Finite-frequency seismic imaging of the Southern Alaska subduction zone	Xin Song	University of Toronto
<b>12:30 pm</b>	<b>Lunch and Campus Tour</b>		
<i>Session III: Active Source Investigations</i>			
<b>1:30 pm</b>	Seismic Imaging of Microbial Biofilms in Porous Media	Sundeep Sharma	Oklahoma State University
<b>2:00 pm</b>	From Trash to Treasure: 3D Crustal Imaging of the Northern Delaware Basin with “Excess” Data from Oil and Gas explorations	Doyeon Kim	Cornell University
<b>2:30 pm</b>	Reflection imaging using earthquakes sources: A novel application of reverse vertical seismic profiling (RVSP)	Diego Quiros	Cornell University
<b>3:00 pm</b>	<b>Discussion and Coffee</b>		
<i>Session IV: Regional Tomography III: Cascadia</i>			
<b>4:00 pm</b>	Segmented Hydrothermal Alteration of the Cascadia Slab	Samuel Bell	Brown University
<b>4:30 pm</b>	What lies beneath a subducting slab?	William Hawley	UC Berkeley
<b>5:00 pm</b>	3D passive source reverse time migration: a new imaging method using converted wave	Jiahang Li	University of Rhode Island
<b>5:30 pm</b>	<b>Poster Session I</b>		
<b>7:00 pm</b>	Dinner at <b>Zapata Mexican Restaurant</b> 779 Route 340, Palisades, NY, 10964		
	After dinner attendees will carpool to the		
	<b>Holiday Inn - Orangeburg</b> 329 Route 303, Orangeburg, New York, 10962		

## Friday, March 18

Seminar Room, 1<sup>st</sup> floor of Comer Geochemistry Building

**8:30 am** Carpool from **Holiday Inn** to LDEO

### *Session V: Earthquakes!*

Hosted by:

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<b>9:00 am</b>	MyShake - Building a Smartphone Global Seismic Network	Qingkai Kong	UC Berkeley
<b>9:30 am</b>	New insights into coseismic and postseismic deformation of the 2011 M 9 Tohoku-oki earthquake	Tianhaozhe Sun	University of Victoria
<b>10:00 am</b>	Using Neural Networking to Discriminate Deep from Shallow Induced Microearthquakes	Mostafa Mousavi	University of Memphis
<b>10:30 am</b>	<b>Poster Session II and Coffee</b>		
<i>Session VI: Anisotropy</i>			
<b>11:30 am</b>	Constraining Lowermost Mantle Dynamics with Seismic Anisotropy Observations and Mineral Physics Beneath Australia	Neala Creasy	Yale University
<b>12:00 pm</b>	Seismic Anisotropy in the Pacific Upper Mantle	Hannah Mark	MIT/WHOI
<b>12:30 pm</b>	<b>Lunch and Seismology Museum Tour</b>		
<i>Session VII: Large Scale Tomography</i>			
<b>1:30 pm</b>	Constraints on the structure of the continental upper crust and lithosphere across the USArray	Erin Cunningham	University of Maryland
<b>2:00 pm</b>	Seismic tomography beneath the continental United States: a new shear wave model from a joint inversion of surface waves and body waves	Eva Golos	MIT
<b>2:30 pm</b>	A One-Degree Global Seismic Tomography Based on a Sensitivity Kernel Database	Elliott Sales de Andrade	University of Toronto
<b>3:00 pm</b>	<b>Discussion and Coffee</b>		
<i>Session VIII: Fault Rupture Characteristics</i>			
<b>4:00 pm</b>	Laboratory investigation of stress-dependent frictional restrengthening and healing rates	Kerry Ryan	Penn State
<b>4:30 pm</b>	Frictional behavior of carbonate-rich sediments in subduction zones	Hannah Rabinowitz	LDEO
<b>5:00 pm</b>	It's Not Rock Mechanics, It's Experimental Seismology	John Leeman	Penn State
<b>5:30 pm</b>	<b>Concluding Remarks</b>		

## Seismology student workshop 2016 poster sessions

### **Thursday 5.30 pm**

Chao Zhang: Seismic residual statics solutions obtained by applying refraction interferometry

Felix Rodrigues Cardozo: Moment tensor inversion for intermediate magnitude earthquakes in Mexico

James Gibson: Seafloor surface processes and subsurface paleo-channel unconformities mapped using multi-channel seismic and multi-beam sonar data from the Galicia 3D seismic experiment

John Aragon: SKS Phase analysis beneath the MAGIC FlexArray experiment

Kayla Crosbie: Preliminary phase velocity tomography of Mount St Helens, Washington from iMUSH array

Nader Shakibay Senobari: Toward increasing accuracy in global centroid moment tensor inversion using InSAR

Nicole McMahon: The 6 November 2011 M5.6 Prague, Oklahoma Aftershock Sequence Studied Using Subspace Detection

Sampath Rathnayaka: Shear wave velocity model from trench to forearc in the northern Juan de Fuca plate

### **Friday 10.30 am**

Chao Gao: Quantifying the multi-parameter seismic inversion uncertainties using a transdimensional Bayesian joint inversion

Chuangxin Lin: Effective media for transversely isotropic models: with applications to borehole sonic logs

Cong Li: Forward modeling of receiver functions for dipping anisotropic structures

Daniel Friedman: Imaging Shallow Mantle Discontinuities beneath Anatolia

Hayley Rosado: Converted Phase Model of the Subsurface Structure of Kilauea Volcano

Pamela Moyer: Constraining Earthquake Source Parameters in Rupture Patches and Rupture Barriers on Gofar Transform Fault, East Pacific Rise from Ocean Bottom Seismic Data

Sarah Jaye Oliva: Surface Wave Analysis of Regional Earthquakes in the Eastern Rift System (Africa)

Thomas Luckie: Onshore seismic refraction survey of the eastern North American margin

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