



The organizers thank the Lamont-Doherty Earth Observatory and the Chevron Fund for providing facilities and generous funding to make this event possible.

The Seismology Student Workshop is an event designed by graduate students, for graduate students. We aim to foster a convivial environment where young researchers connect with peers in their field and present active research. This workshop is focused on bringing together students from seismology and earthquake-related fields to stimulate both in-depth discussion of results and, in particular, detailed exploration of methodology and technique.

For further information please contact  
seismo.workshop@gmail.com  
If you need assistance during the workshop, call  
+1 907-299-2615

### Wednesday, March 18

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After 3:00 pm	<b>Check into hotel:</b> <b>Holiday Inn - Orangeburg</b>	329 Route 303 Orangeburg, NY, 10962
	Attendees will carpool to dinner from the hotel (meet in the hotel lobby at 7:00 pm)	
7:30 pm	Dinner at <b>Mountain House Pizza</b>	330 Route 340 Sparkill, NY, 10976

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Hosted by:  
**Lamont-Doherty Earth Observatory**  
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## Thursday, March 19

Seminar Room, 2<sup>nd</sup> floor of Seismology Building

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<b>8:00 am</b>	Breakfast at <b>Holiday Inn</b>	
<b>8:30 am</b>	Carpool from <b>Holiday Inn</b> to LDEO	
<b>9:00 am</b>	<b>Opening Remarks</b>	
<i>Session I: Cutting-edge data and methods I</i>		
<b>9:30 am</b>	Data and Analysis Methods of the Son-O-Mermaid and MERMAID Experiments	Joel D. Simon <i>Princeton University</i>
<b>10:00 am</b>	Railroad Seismology: Retrieving body waves via seismic interferometry	Diego Quiros <i>Cornell University</i>
<b>10:30 am</b>	<b>Discussion - Introductions</b>	
<b>11:00 am</b>	<b>Coffee Break</b>	
<i>Session II: Unexpected earthquakes</i>		
<b>11:30 am</b>	Seismic rupture of oceanic strike-slip earthquakes	Kasey Aderhold <i>Boston University</i>
<b>12:00 pm</b>	Induced Seismicity in Oklahoma	Catherine Lambert <i>Cornell University</i>
<b>12:30 pm</b>	<b>Lunch</b>	
<i>Session III: Upper mantle structure I</i>		
<b>1:30 pm</b>	Imaging accretionary structures in the crust and mantle of the southeastern U.S.A.	Emily Hopper <i>Brown University</i>
<b>2:00 pm</b>	Using a Joint Tomography Inversion to Improve Models of Sierra Negra, Galapagos	Gabrielle Tepp <i>University of Rochester</i>
<b>2:30 pm</b>	Exploring the crust and upper mantle of Madagascar	Martin Pratt <i>Washington U. in St. Louis</i>
<b>3:00 pm</b>	<b>Discussion</b>	
<b>3:30 pm</b>	<b>Coffee Break</b>	
<i>Session IV: Upper mantle structure II</i>		
<b>4:00 pm</b>	Seismic Study of the Crust and Upper Mantle Structure in Western Tibet: A Joint Inversion of Teleseismic and Local Data	Ayda Shokoohi <i>Rutgers University</i>
<b>4:30 pm</b>	Lithospheric shear velocity structure of South Island, New Zealand, from amphibious Rayleigh wave tomography	Justin Ball <i>CIRES, Colorado University at Boulder</i>
<b>5:00 pm</b>	Constraints on shear velocity in the cratonic upper mantle from Rayleigh wave phase velocity	Aaron Hirsch <i>University of Rhode Island</i>
<b>5:30 pm</b>	<b>Discussion</b>	
<b>6:30 pm</b>	Dinner at <b>Gobawoo Korean Restaurant</b>	4 Route 303 Tappan, NY 10983

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**Friday, March 20**

Seminar Room, 2<sup>nd</sup> floor of Seismology Building

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<b>8:00 am</b>	Breakfast at <b>Holiday Inn</b>	
<b>8:30 am</b>	Carpool from <b>Holiday Inn</b> to LDEO	
<b><i>Session V: Slow slip and tremor</i></b>		
<b>9:00 am</b>	High-resolution tremor locations reveal behaviors of secondary slow slip fronts in the context of the main front	Yajun Peng <i>Princeton University</i>
<b>9:30 am</b>	Two End-member Models of Slow-Slip Events and Complex Tremor Migration Patterns	Yingdi Luo <i>Caltech</i>
<b>10:00 am</b>	Laboratory observations of the full spectrum of fault slip modes: implications for the mechanics of slow earthquakes	John Leeman <i>Penn State</i>
<b>10:30 am</b>	<b>Discussion</b>	
<b>11:00 am</b>	<b>Coffee Break</b>	
<b><i>Session VI: Fault rupture characteristics</i></b>		
<b>11:30 am</b>	Detecting seismic signatures in the rock record at the Japan Trench	Hannah Rabinowitz <i>LDEO</i>
<b>12:00 pm</b>	Critical evaluation of Rate and State Friction under laboratory conditions using Bayesian Inference	Pathikrit Bhattacharya <i>Princeton University</i>
<b>12:30 pm</b>	<b>Lunch</b>	
<b><i>Session VII: Seismic anisotropy</i></b>		
<b>1:30 pm</b>	Heterogeneous seismic anisotropy in the transition zone and uppermost lower mantle	Colton Lynner <i>Yale University</i>
<b>2:00 pm</b>	Crustal Anisotropy in Northeastern Tibetan Plateau Inferred from Receiver Functions: Rock Textures Caused by Metamorphic Fluids and Lower-Crust Flow?	Zhen Liu <i>Yale University</i>
<b>2:30 pm</b>	The effect of deformation history on the texture and seismic anisotropy of the upper mantle	Yuval Boneh <i>Washington U. in St. Louis</i>
<b>3:00 pm</b>	<b>Discussion</b>	
<b>3:30 pm</b>	<b>Coffee Break</b>	
<b><i>Session VIII: Cutting-edge data and methods II</i></b>		
<b>4:00 pm</b>	Study of Heterogeneity using Stochastic Tomography	Yiteng Tian <i>University of Connecticut</i>
<b>4:30 pm</b>	Using PKiKP coda to study heterogeneity in the top layer of the inner core	Wenbo Wu <i>Princeton University</i>
<b>5:00 pm</b>	Parallel computing in Seismology, an introduction with practical examples	Jiyao Li <i>LDEO</i>
<b>5:30 pm</b>	<b>Conclusions</b>	

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