

Slow-to-Fast Earthquake Workshop in Chile

Venue: Auditorium Enrique d'Etigny, Santiago Chile

Day1 Jan 13th

ID	Time				
0	9:00	9:20	Openning & Self-introduction		
1	9:20	9:40	Sergio RUIZ	University of Chile	Earthquakes in Latin America (slow and fast)
2	9:40	10:00	Ketzallina Flores	Kyoto University	Study of scaled energy: Mexico, Central America and South America
3	10:00	10:20	Kellen Azua	University of Chile	Shallow Tectonic Tremors reveal the beginning of Slab Windows at the Chilean Triple Junction
4	10:20	10:40	Leoncio CABRERA	Pontificia Universidad Católica de Chile	Immediate Foreshock or Seismic Nucleation Phase? The case of the Mw 6.9 Valparaiso (Chile) Earthquake
Break	10:40	11:00			
5	11:00	11:20	Thorsten W. BECKER	Jackson School of Geosciences, UT Austin	Deep lithospheric rupture and mechanism transition during the July 19, 2024 Mw 7.4 Chile intermediate depth earthquake
6	11:20	11:40	María Constanza Flores	University of Chile	Hunting for seismic swarms: insights from Norte Chico region
7	11:40	12:00	Satoshi Ide	The University of Tokyo	Slow and Fast Earthquakes and Earthquake Models
8	12:00	12:20	David Schmidt	University of Washington	Along-strike Changes in ETS Behavior Near the Slab Edge of Southern Cascadia
Lunch	12:40	14:30			
9	14:30	14:50	Songqiao Shawn WEI	Michigan State University	Deep Learning for Deep Earthquakes: Insights from OBS Observations of the Tonga Subduction Zone
10	14:50	15:10	Geoff Abers	Cornell University	Imaging the extent of the Alaska seismogenic megathrust
11	15:10	15:30	Hiroko SUGIOKA	Kobe University	Seismic Image of the Central to Southern Andean Subduction Zone Through Finite-Frequency Tomography
12	15:30	15:50	Daya Shanker	Indian Institute of Technology Roorkee	Enhancing Tsunami Resilience and Hazard Prediction in Eastern Indian Ocean Coastal Regions
Break	15:50	16:10			
13	16:10	16:30	Kurama OKUBO	NIED	Non-self-similar scaling of laboratory earthquakes and their source mechanisms: recent progress with M-7 events
14	16:30	16:50	Zhu-Yuan Lin	Osaka University	Stick-Slip Motion in Confined Model Smectite Clay
15	16:50	17:10	Alexis SÁEZ	Caltech	Slow-slip events as a fluid-driven shear rupture process
16	17:10	17:30	Diego Molina	University of Grenoble Alpes	Slip modes along a structurally-driven earthquake barrier in Chile

Day2 Jan 14th

17	9:00	9:20	Meng (Matt) WEI	University of Rhode Island, United States	Numerical simulation of slow and fast earthquakes in Northern Chilean Subduction Zone (latitude 27S) in the framework of rate-and-state friction
18	9:20	9:40	Ryoko NAKATA	The University of Tokyo	Triggering of large earthquakes using multiscale circular patch model in quasi-dynamic numerical simulation of earthquake generation cycle
19	9:40	10:00	Takanori MATSUZAWA	National Research Institute for Earth Science and Disaster Resilience	Numerical modeling of the sequence of megathrust earthquakes on the Philippine Sea plate in the Kanto region
20	10:00	10:20	Shoichi YOSHIOKA	Kobe University	3D thermal structural and dehydration modeling in the southern Chile subduction zone and its relationship to interplate earthquakes and the volcanic chain
Break	10:20	10:40			
21	10:40	11:00	Erik Fredrickson	University of Texas Institute for Geophysics	Searching for secular vertical strain signal in the Hikurangi margin using calibrated seafloor pressure data
22	11:00	11:20	Cristian Garcia	GFZ German Research Centre for Geosciences, Potsdam, Germany	The impact of GNSS processing strategy on the appearance of tectonic transients: A case study in the Cascadia subduction zone
23	11:20	11:40	Anne SOCQUET	University Grenoble Alpes	Seismicity and loading on the South Peru megathrust : first results of the DEEPtrigger project
24	11:40	12:00	Yoshihiro ITO	Kyoto University	Linking Residual Gravity Anomalies to Slow and Fast Seismic Activity in the Guerrero Seismic Gap
Lunch	12:00	14:00			
25	14:00	14:20	Yuji ITOH	ERI, Univ. Tokyo	Largest Aftershock Nucleation Driven by Afterslip During the 2014 Iquique Sequence
26	14:20	14:40	Francisco Ortega-Culaciati	University of Chile, FCFM, Department of Geophysics	A Multiscale Sparse Estimation (MUSE) Approach for Quasi-Static Slip Inversion
27	14:40	15:00	Javier OJEDA	Universidad de Chile & Université Paris Cité	Tracking the Aseismic Slip History Along the Chilean Subduction Zone (18°S-40°S): GPS Observations from 2006 to 2024
28	15:00	15:20	Baez J.C	Universidad de Chile	Slow Earthquake recurrences And Interactions in Chile
Break	15:20	15:40			
29	15:40	16:00	Jonathan Bedford	Ruhr University Bochum, Germany	A comparison of tectonic transients from different GNSS displacement time series solutions in Japan
30	16:00	16:20	Helen Janiszewski	University of Hawai'i at Mānoa	Noise on Ocean Bottom Seismometers: Observations, New Directions, and Relevance for Subduction Earthquake Research
31	16:20	16:40	Hiroyuki MATSUMOTO	JAMSTEC	Tsunamis observed by a fiber optic strainmeter
32	16:40	17:00	Manuel J. AGUILAR-VELAZQUEZ	The University of Tokyo	Frequency and Non-Frequency Dependent DAS Strain-Rate Scaling Relations for Earthquakes Recorded in Mexico City
33	17:00	17:20	Andrés Tassara	Universidad de Concepción	Thermal structure of the Chilean megathrust and its role on slow-to-fast earthquakes