

PATA CHILE 2024
General Program

/October
06 - 11



SUN_6	TIME	MON_7	TUE_8	WED_9	THU_10	FRI_11
	7:00-7:15	Breakfast	INTRA-MEETING FIELDTRIP SAN RAMÓN FAULT	Breakfast	Breakfast	Breakfast
	7:15-7:30					
	7:30-7:45					
	7:45-8:00					
	8:00-8:15	Free Time			Free Time	Free Time
	8:15-8:30					
	8:30-8:45	Talks				
	8:45-9:00					
	9:00-9:15				Talks	Talks
	9:15-9:30					
	9:30-9:45					
	9:45-10:00					
	10:00-10:15					
	10:15-10:30	Coffee Break		Coffee Break	Coffee Break	
	10:30-10:45					
	10:45-11:00	Talks				
	11:00-11:15					
	11:15-11:30			Talks	Talks	
	11:30-11:45					
	11:45-12:00					
	12:00-12:15	Opening Ceremony & outreach				
	12:15-12:30					
	12:30-12:45				INTRA-MEETING FIELDTRIP PALEO-TSUNAMI RECORD CENTRAL CHILE	
	12:45-13:00					
	13:00-13:15	Lunch				
	13:15-13:30			Lunch		Lunch
	13:30-13:45					
	13:45-14:00					
	14:00-14:15	Free Time		Free Time	Free Time	
	14:15-14:30					
	14:30-14:45					
	14:45-15:00			Talks	Talks	
	15:00-15:15					
	15:15-15:30					
	15:30-15:45			Coffee Break	Coffee Break	
	15:45-16:00	INTRA-MEETING FIELDTRIP CARIÑO BOTADO FAULT				
	16:00-16:15			Talks	Talks	
	16:15-16:30					
	16:30-16:45					
	16:45-17:00					
	17:00-17:15		17 - 18 HRS Talk and ceremony at Cerro Calán	Poster Session	Poster Session	
	17:15-17:30					
	17:30-17:45					
	17:45-18:00					
	18:00-18:15	Free Time				
	18:15-18:30					
	18:30-18:45					
	18:45-19:00					
ACCREDITATION ICE BREAKER	19:00-19:15	Activity at the piedmont observatory		Free Time	Free Time	Free Time (only Post Meeting Fieldtrip)
	19:15-19:30					
19:30-19:45						
19:45-20:00						
Dinner	20:00-20:15	Dinner				
	20:15-20:30					
	20:30-20:45					
	20:45-21:00				Dinner Barbecue	Dinner (only Post Meeting Fieldtrip)
	21:00-21:15					
	21:15-21:30					
21:30-21:45						
21:45-22:00						



TIME	TITLE	SPEAKER	SESSION
7:00-8:00	Breakfast		
8:00-8:20	Free Time		
8:20-8:30	WELCOME		
8:30-9:00	Organizing committee		ANDEAN ACTIVE TECTONICS
9:00-9:15	Carlos Costa Active tectonics at the eastern Andean thrust front.		
9:15-9:30	Victoria Alvarellos et al. Assesing Late Quaternary shortening related to footwall splays at the southern section of Las Peñas thrust, Southern Precordillera, Mendoza, Argentina.		
9:30-9:45	Andrés Richard et al. Assesment of neotectonic deformation through morphometric analysis: A case study in La Rinconada, Argentina.		
9:45-10:00	Shreya Arora et al. Paleoesismic investigation of the Marquesado Fault in San Juan (27-33.5°S), eastern Precordillera, Argentina.		
10:00-10:15	Gonzalo Fernández et al. Mid-crustal earthquakes and their relation to faults under the Bolivian Orocline		
10:15-10:30	Coffee Break		
10:30-11:00	Gabriel González et al. Paleoseismology of the Atacama Fault System: tracing the relationship between subduction earthquake and upper plate faulting		ANDEAN ACTIVE TECTONICS
11:00-11:15	Yerko González et al. Frictional properties and deformation mechanisms of upper-plate faults reactivation triggered by subduction earthquakes: Insights from the Atacama Fault System		
11:15-11:30	Kellen Azúa et al. Lithological control of the active Mejillones fault from Triassic to Quaternary, northern Chile		
11:30-12:00	Gabriel Easton and Luisa Pinto et al. The west Andean mountain front in central Chile: The San Ramón and Cariño Botado thrust faults		
12:00-12:15	Opening Ceremony		
12:15-12:30			
12:30-12:45			
12:45-13:00	Lunch		
13:00-13:15			
13:15-13:30			
13:30-13:45	Free Time		
13:45-14:00			
14:00-14:15			
14:15-14:30	INTRA-MEETING FIELDTRIP CARIÑO BOTADO FAULT		
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17:30-17:45			
17:45-18:00			
18:00-19:00	Free Time		
19:00-20:00	Activity at the piedmont observatory		
20:00-21:30	Dinner		
21:30-21:45			
21:45-22:00			



TUESDAY_8

TIME

TITLE

SPEAKER

SESSION

7:00-7:15

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21:30-21:45

21:45-22:00

Breakfast

Free Time

**INTRA-MEETING
FIELDTRIP
SAN RAMÓN FAULT**

**17:00-18:00 hrs
Talk and ceremony
at Cerro Calán**

Dinner



		WEDNESDAY_9	
TIME	TITLE	SPEAKER	SESSION
7:00-8:00	Breakfast		
8:00-8:30	Free Time		
8:30-8:45	Talks	Sangyeol Bae et al. Challenges of paleoseismological analysis of strike-slip Yeongdong Fault in a slowly deforming regions (the central part of Korean Peninsula)	PROGRESS IN PALEOSEISMOLOGY AND NEOTECTONICS
8:45-9:00		Astyka Pampumpuni et al. Preliminary results of the Kalaotoa Fault identification based on seismic section and newly acquired multibeam bathymetry	
9:00-9:15		Dan Clark et al. Tectonic geomorphology and Holocene uplift rates of the Lae Urban Area, Papua New Guinea	
9:15-9:30		Jonathan Griffin, Tamarah King et al. Large earthquake recurrence in the Snowy Monaro region: First dated Holocene rupture and strike-slip fault evidence for Australia	
9:30-9:45		Jesse R. Kearse et al. Un-earthing fault rupture slickenlines: Testing a new method to excavate and document paleo slickenlines on active faults	
9:45-10:00		Nicolas C. Barth et al. Curved slickenlines record rupture directivity of paleoearthquakes on the Alpine Fault, New Zealand	
10:00-10:15		Robert Langridge et al. Paleoseismic event dates and paleo-slips following river avulsion at the Marble Hill site, Alpine Fault, South Island, New Zealand	
10:15-10:45	Coffee Break		
10:45-11:00	Talks	Yahia Mohammedi et al. Neotectonic overview of the Arzew Salline fault-related fold in NW Algeria: Evidence of active tectonics through field observations and geomorphology	PROGRESS IN PALEOSEISMOLOGY AND NEOTECTONICS
11:00-11:15		Juliá Molins-Vigatà et al. First paleoseismic evidence of late Upper Pleistocene activity of the Palomares Fault, SE Iberia	
11:15-11:30		Alessio Testa et al. First estimate of the long-term fault displacement and slip rates of the Anghiari normal fault (northern Apennines, Italy)	
11:30-11:45		Jacek Szczygiel et al. Late Pleistocene transpression of the Königssee-Lammertal-Traunsee Fault inferred from caves deformation (European Eastern Alps)	
11:45-12:00		Klaus Reicherter et al. Neotectonics and paleoseismicity in intraplate low seismicity settings of Central Europe (Germany)	
12:00-12:15		Jan Flašar et al. Late Cenozoic tectonic evolution of the terrain and fluvial systems in the area of Novohradské hory Mts. (Bohemian Massif, Czechia, central Europe): Multidisciplinary approach	
12:15-12:30		Petra Štěpánčiková et al. Variability of late Cenozoic activity along-strike the Mariánské Lázně fault (Bohemian Massif, Czech Republic)	
12:30-12:45	Eldon Gath Uplift and neotectonic development of the Puente Hills in Los Angeles, Riverside and Orange Counties, Southern California		
12:45-13:00	Rick D. Koehler & Mark Stirling Paleoseismic characterization of the Buffalo Valley fault, central Basin and Range, Nevada, USA		
13:00-14:00	Lunch		
14:00-14:30	Free Time		
14:30-14:45	Talks	Tina M. Niemi et al. LIDAR, paleoseismic trench, and ERT data across the 1976 earthquake rupture of the Motagua Fault at Gualán, Guatemala	PROGRESS IN PALEOSEISM AND ACTIVE TECTONICS TECHNIQUES
14:45-15:00		Aleigha Dollens et al. Electrical resistivity tomography imaging of the Motagua Fault along the 1976 earthquake rupture in Guatemala	
15:00-15:15		Théo Lallemand et al. Combining geological and archaeological evidence to infer the recent tectonics of the Montagne du Vuache Fault, Jura Mountains, France	
15:15-15:30		Stéphane Baize et al. Offshore investigation of neotectonic faults in an intraplate area, between the Norman coast and the Channel Islands	
15:30-15:45	Coffee Break		
15:45-16:00	Talks	Shmuel Marco Review of three-decade research on lacustrine seismites in the Dead Sea Basin	PROGRESS IN PALEOSEISM AND ACTIVE TECTONICS TECHNIQUES
16:00-16:15		Carolina Cornejo et al. Analysis of soft-sediment deformation structures in the Tena Formation - Oriente basin of Ecuador: Paleoseismologic implications	
16:15-16:30		Nicolas Pinzon et al. Potential for long-time series of large earthquakes derived from lake sedimentary archives along the Bulnay Fault (northwest Mongolia)	
16:30-18:00	POSTER SESSION (3-5 min. / presentation)		
18:00-20:00	Free Time		
20:00-21:30	Dinner		



		THURSDAY_10	
TIME	TITLE	SPEAKER	SESSION
7:00-8:00	Breakfast		
8:00-8:30	Free Time		
8:30-8:45	Talks	Laurent Bollinger et al. Surface rupture of historical earthquake(s) at the front of the Chandra Bagh, eastern Nepal	CASCADING HAZARDS AND HISTORICAL EARTHQUAKES: SEISMIC AND SURFACE RUPTURES
8:45-9:00		Yann Klinger et al. Repeatibility of the 20th century earthquake cluster in Mongolia: Paleoseismology along the Tsetserleg Fault (Mongolia)	
9:00-9:15		Magda Patyniak et al. The surface rupture of the 2008 Mw 6.6 Nura earthquake: Uncovering secondary, flexural-slip surface rupture in the Tien Shan-Pamir collision zone, South Kyrgyzstan	
9:15-9:30		Stefano Pucci et al. Documenting the surface rupture of the 06 February 2023 Elbistan (Kahramanmaras) earthquake (Türkiye): The European earthquake geology task force (EuQuaGe)	
9:30-9:45		Stéphane Baize et al. Overview of the environmental effects during the M7.5 Noto Peninsula earthquake (1/1/2024)	
9:45-10:00		Gregory P. De Pascale et al. Preliminary plate boundary normal fault ruptures and real time graben formation in Grindavik Iceland	
10:00-10:15		Young-Seog Kim et al. Earthquake damage controlling factors and hazard assessment	
10:15-10:45	Coffee Break		
10:45-11:00	Talks	Pablo Silva et al. Ancient earthquakes in the Iberian Peninsula: From the Middle ages to Neolithic times	PROGRESS IN ARCHAEOSEISMOLOGY
11:00-11:15		Raúl Pérez-López et al. Teotihuacan (Mexico) archaeoseismic timeline during the early Classic Period	
11:15-11:30		Krzysztof Gaidzik et al. Unravelling repeated abandonment and new settlements in the Upper Colca Region (Peru) - archaeoseismological study	
11:30-11:45		Paolo Boncio et al. The challenge of estimating the hazard from distributed earthquake surface ruptures: dip slip faults	PROGRESS IN SEISMIC HAZARD ASSESSMENT
11:45-12:00		Lisa Mammarella et al. Probability of earthquake surface rupture on principal fault: an analytical approach	
12:00-12:15		Lombardi, Cinti, Pantosti Paleoearthquakes modeling and effects on uncertainties on probability assessment of next fault ruptures: The case of Central Italy surface faulting earthquakes	
12:15-12:30		Carl-Henrik Pettersson License review of a spent fuel repository –assessment of long-term seismic stability	
12:30-12:45	Pizza et al. Probabilistic fault displacement hazard analysis (PFDHA): an application in the framework of the realization of the Italian nuclear waste repository		
12:45-13:00	James P. McCalpin Predicting distributed fault displacements at Forsmark Nuclear Waste Repository, Sweden: Rock mechanics approach vs geologic-empirical approach		
13:00-14:00	Lunch		
14:00-14:30	Free Time		
14:30-14:45	Talks	Thomas Rockwell et al. Can the Mariana subduction complex generate M9 class megathrust events? Testing the classic Uyeda and Kanamori subduction zone model in Guam	MEGATHRUST EARTHQUAKE PALEOSEISMOLOGY AND PALEOTSUNAMIS
14:45-15:00		María Teresa Ramírez Herrera et al. Revealing the potential for high-magnitude earthquakes: Tsunami deposits as indicator in the Guerrero Seismic Gap, Mexico	
15:00-15:15		Katleen Wils et al. A long lacustrine sedimentary record of 1960-like earthquakes in south-central Chile	
15:15-15:30		Valentina Moreno-Allende et al. Linking tsunami deposits, land-level changes and seismo-turbidite archives in lake sediments from Chiloé island, south-central Chile	
15:30-15:45	Coffee Break		
15:45-16:00	Talks	Jasper Moernaut et al. Reconstructing megathrust rupture variability during the past ~800 years using transect of lacustrine sedimentary records in South-Central Chile	MEGATHRUST EARTHQUAKE PALEOSEISMOLOGY AND PALEOTSUNAMIS
16:00-16:15		Marcos Cisternas et al. Geological evidence of the largest historical tsunamis of Metropolitan Chile constrains tsunami hazard in the country's most populated coast	
16:15-16:30			
16:30-18:00	POSTER SESSION (3-5 min.)		
18:00-20:00	Free Time		
20:00-21:30	Dinner		



TIME		FRIDAY_11
	TITLE	SESSION
7:00-7:15	Breakfast	
7:15-7:30		
7:30-7:45		
7:45-8:00		
8:00-8:15	Free Time	
8:15-8:30	<p style="text-align: center;">INTRA-MEETING FIELDTRIP PALEOTSUNAMI RECORD CENTRAL CHILE</p>	
8:30-8:45		
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18:00-18:15	Free Time (only for Post-Meeting Fieldtrip)	
18:15-18:30		
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19:00-19:15	Dinner (only for Post-Meeting Fieldtrip)	
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WED 9 / THU 10

AUTHOR

TITLE

SESSION

Luisa Pinto et al.

Carino Botado Fault System: Active thrust tectonics along the western margin of the Andean Principal Cordillera (33°S, Chile)

J. Cortés, L. Pinto, Pamela Jara

Effects of syntectonic sedimentary loading on the evolution of an orogenic border: Analog modeling applied to the Quaternary activity of the Pucuro Fault System Chilean Andes (32.5°S)

José González-Alfaro et al.

Unraveling the microseismicity activity of the Puerto Aldea Fault: Seismic hazard assessment along coastal La Serena-Tongoy, northern Chile (preliminary results)

Nicolás Campillay and G. Easton

Quaternary crustal deformation and seismic hazard associated with the San Ramón Fault in the foothills of Pirque (33.5°S)

Ignacio Gutiérrez et al.

Characterization of the structural geology and damage zone of the San Ramón Fault

Igor Aguirre and G. Easton

Surface and subsurface exploration of the San Ramón thrust fault in Santiago at the western foot of the Andes

Henry Conteron et al.

Cartography of the Porotoyacu Fault in a southern section of the Ecuadorian Amazon

Samira Lluno et al.

Paleoseismological study of the Porotocayu Fault in the Amazon Ecuadorian piedmont

Luisa Fernanda Arenas et al.

Application of LIDAR and structure from motion techniques in the mapping of potentially active faults in Guerrero, Mexico

Krzysztof Gaidzik et al.

Exploring the seismic history of crustal faults in the Colca Region

Jacek Szczygiel et al.

Late Pleistocene surface fault rupture in the slowly-deforming Podhale Basin (Western Carpathians): implications for paleoseismology and geodynamics

Angelo Villalobos, Easton, et al.

Paleoseismic evidence of active faulting and landslide events in Liquiñe-Ofqui Fault System: insights from the 2007 Aysén earthquake sequence

Neill Marshall et al.

Paleoseismology of West Caspian Fault (Azerbaijan) and active faulting in an over-pressured sedimentary basin

Sofía Rebolledo et al.

Landslide susceptibility associated with the San Ramón Fault, Santiago Andean Foothills

S. Wassaf, Pamela Jara et al.

Landslide and tsunami risks mitigation in coastal urban areas: A case of study in Coronel (37°S, Chile) using analogue modelling

Danielle Forester and G. De Pascale

Preliminary seismic and structural controls of Late Quaternary landslide distribution in the Dalvik Lineament, North Iceland

Taehyung Kim et al.

A preliminary study on the slip rate and seismic history of a part of the Yangsan Fault, SE Korea

Francesca Cinti et al.

Multidisciplinary approach to investigate "hidden" seismic hazard source: The case of NE-SW Sibari fault zone in Ionian Northern Calabria (Italy)

Maarten Van Daele et al.

The 600 yr Laguna Lo Encañado paleoseismic archive: a shaking record for Santiago de Chile

Bladimir Saldaña et al.

Ecological evidence of sudden coastal level changes associated to historical Metropolitan Chile earthquakes

Maximiliano Forch et al.

Geological record of Holocene tsunami deposits in Carrizal Bajo wetland ((28°S), Atacama, Chile

Ismael Murillo et al.

Upper Holocene tsunami deposits at the mouth of La Ligua and Petorca rivers, central Chile (32°24'50"S)

POSTER SESSION: 3-5 MIN.
ORAL PRESENTATION (OPTIONAL) ON WEDNESDAY 9

POSTER SESSION: 3-5 MIN.
ORAL PRESENTATION (OPTIONAL) ON THURSDAY 10