

Seismix 2024 Overview: Final Program

Day	Times	Activity	Day	Times	Activity
Monday	09:00-10:30	Check-in at Geocentrum, poster setup, coffee	Thursday	08:30-10:10	Presentations
	10:30-11:00	Welcome and overview		10:10-10:40	Coffee
	11:00-12:15	Presentations		10:40-12:20	Presentations
	12:15-13:50	Lunch at Segerstedtshuset		12:20-13:50	Lunch at Segerstedtshuset
	13:50-15:30	Presentations		13:50-15:30	Presentations
	15:30-16:00	Coffee		15:30-16:00	Coffee
	16:00-17:40	Presentations		16:00-17:40	Poster session
	18:00-21:00	Icebreaker at Geocentrum		19:00-23:00	Conference dinner at Norrlands
Tuesday	08:55-10:10	Presentations	Friday	08:30-10:10	Presentations
	10:10-10:40	Coffee		10:10-10:40	Coffee
	10:40-12:20	Presentations		10:40-12:20	Presentations
	12:20-13:50	Lunch at Segerstedtshuset		12:20-13:50	Lunch at Segerstedtshuset
	13:50-15:30	Presentations		13:50-15:30	Presentations
	15:30-16:00	Coffee		15:30-16:00	Coffee
	16:00-17:40	Poster session		16:00-17:40	Roundup
Wednesday	08:30-10:10	Presentations			
	10:10-10:40	Coffee			
	10:40-12:20	Presentations			
	12:20-13:50	Lunch at Segerstedtshuset			
	13:50-15:05	Presentations			
	15:05-18:30	Visit to Gustavianum and Uppsala Cathedral			
ACM:	Active continental margins (structure and processes)				
CL:	Continental lithosphere, including sedimentary basins				
ICD:	Intra-continental deformation, collision and accretion				
PCM:	Passive continental margins (structure and processes)				
ME:	Mineral exploration seismics, integration with other geological and geophysical data				
NSM:	Novel seismic imaging and inversion methods				
SIE:	Seismic imaging for earth hazards, CCS, gas storage, geothermal energy and near-surface applications				

See map on the last page for location of Geocentrum, Segerstedtshuset (lunch), Norrlands, Gustavianum and Uppsala Cathedral

Monday

Title	First Author	Presenter	Session	Chair
<i>09:00 Check-in, poster installation, coffee</i>				
10:30 Welcome to Earth Sciences		Sebastian Willman		
10:40 Overview of the conference		Chris Juhlin		
11:00 3D tomographic constraints on upper-plate elastic structure and inter-plate geometry offshore Ecuador	Manel Prada	Manel Prada	ACM	David Snyder
11:25 Seismic structure of the Moho and uppermost mantle in northeastern Japan	Takashi Iidaka	Takashi Iidaka	ACM	David Snyder
11:50 Early Earth plume-induced subduction initiation facilitated by weakening in the shallow lithosphere	Xi Liu	Xi Liu	ACM	David Snyder
<i>12:15 Lunch</i>				
13:50 High-Resolution Imaging of Central Nankai Trough Plate Boundaries via Graph-Space Optimal Transport FWI of Dense Wide-Angle Seismic Refraction Data	Yanfang Qin	Yanfang Qin	ACM	Randell Stephenson
14:15 Three-dimensional seismic velocity structure beneath the Miura peninsula around the Tokyo Metropolitan area	Makoto Matsubara	Makoto Matsubara	ACM	Randell Stephenson
14:40 Systematic Bias in Shear-Wave Splitting Measurement: An Example From Alberta, Canada	Andrew Frederiksen	Andrew Frederiksen	CL	Randell Stephenson
15:05 Gneisses and gneisses: Contrasting seismic properties and anisotropy of orthogneisses affiliated with the same protolith in southwest Sweden	Bjarne Almqvist	Bjarne Almqvist	CL	Randell Stephenson
<i>15:30 Coffee</i>				
16:00 Joint interpretation of teleseismic and reflection profiles to define a superterrane in the Archean Superior craton, North America	David Snyder	David Snyder	CL	Andy Calvert
16:25 Coherent seismic anisotropy pattern across southern Africa revealed by shear wave splitting measurements	Fenitra Andriampenomanana	Fenitra Andriampenomanana	CL	Andy Calvert
16:50 New views on the Iberian transect: Multi disciplinary geophysical constraints on Variscan Orogenic Belt in South-Western Iberia	Hongqiang Li	Ramon Carbonell	CL	Andy Calvert
17:15 Crustal Structure and Tectonic Evolution of the Southern Baltic Sea Interpreted from Seismic, Gravity and Magnetic Data	Małgorzata Ponikowska	Stanisław Mazur	CL	Andy Calvert
<i>18:00 Icebreaker</i>				

Tuesday

Title	First Author	Presenter	Session	Chair
08:55 Lower Carboniferous magmatic intrusions within the SW edge of the East European Craton (Baltic and Lublin basins, Poland) - insight based on seismic data interpretation and seismic forward modelling	Piotr Krzywiec	Piotr Krzywiec	CL	Yongqian Zhang
09:20 The 'Big Four' orogen-scale lithospheric discontinuities in the Iberian Massif	Puy Ayarza	Puy Ayarza	CL	Yongqian Zhang
09:45 Deep structure and neotectonics of Africa south of the equator revealed by AfricaArray seismograph networks	Ray Durrheim	Ray Durrheim	CL	Yongqian Zhang
<i>10:10 Coffee</i>				
10:40 Maximizing the Utilization of Surface Waves in Deep Seismic Reflection Profiles	Zhang Hui	Zhang Hui	CL	Musa Manzi
11:05 Crustal mapping of Palaeoproterozoic terrane boundaries in NW Fennoscandia by receiver function inversion	Christian Schiffer	Christian Schiffer	ICD	Musa Manzi
11:30 Seismic site characterization around the COSC-2 drill hole (Järpen, Sweden)	Lena Bräunig	Lena Bräunig	ICD	Musa Manzi
11:55 New seismic imaging of the crustal structure of a fold-and-thrust belt in South China: insights into the intracontinental deformation	Yongqian Zhang	Yongqian Zhang	ICD	Musa Manzi
<i>12:20 Lunch</i>				
13:50 The Deep-Water Structural Evolution of the Orange Basin: Insights from 3D Reflection Seismic Data	Nombuso G. Maduna	Nombuso G. Maduna	PCM	Puy Ayarza
14:15 3-D seismic reflector orientations from 2-D lines across the Kalgoorlie Goldfields	Andrew J. Calvert	Andrew J. Calvert	ME	Puy Ayarza
14:40 Rare Earth Element Deposits in the Lebowa Granite Suite in South Africa: Insights from 2D Reflection Seismic and Borehole data	Bibi Ayesha Jogee	Bibi Ayesha Jogee	ME	Puy Ayarza
15:05 Sparse and crooked. Musings on processing and interpreting deep crustal seismic data	Ian James	Ian James	ME	Puy Ayarza
<i>15:30 Coffee</i>				
<i>16:00 Poster session</i>				

Wednesday

Title	First Author	Presenter	Session	Chair
08:30 Characterizing a Mineralized Extensional Dome in the Variscan Central Iberian Zone (Spain) using Ambient Noise Seismic Data	Imma Palomeras	Imma Palomeras	ME	Milovan Urosevic
08:55 3D seismic imaging of the 2.5-2.4 Ga Koillismaa Layered Intrusion Complex, Finland	Michal Malinowski	Michal Malinowski	ME	Milovan Urosevic
09:20 2D Seismic Reflection Imaging of the 2.5-2.4 Ga feeder zone of the Koillismaa Layered Igneous Complex, Northern Finland	Brij Singh	Brij Singh	ME	Milovan Urosevic
09:45 Broadband seismics for deep gold exploration at South Deep Gold Mine, South Africa	Moyagabo Rapetsoa	Moyagabo Rapetsoa	ME	Milovan Urosevic
<i>10:10 Coffee</i>				
10:40 Reprocessing legacy 2D seismic data through focusing prestack depth migration in the southwestern Bushveld Complex, South Africa	Mpofana Sihoyiya	Mpofana Sihoyiya	ME	Mehdi Qashqai
11:05 Seismic surveys at the Per Geijer iron oxide-apatite mineralization in Kiruna, Sweden	Niklas Juhojuntti	Niklas Juhojuntti	ME	Mehdi Qashqai
11:30 Ambient noise surface wave analysis for delineating geological contacts: mineral exploration context	Zbigniew Wilczynski	Zbigniew Wilczynski	ME	Mehdi Qashqai
11:55 DAS reflection seismic for mineral exploration in hash environments	Milovan Urosevic	Milovan Urosevic	ME	Mehdi Qashqai
<i>12:20 Lunch</i>				
13:50 On the impact of the 3D effect on the high-resolution velocity model building from the active seismic 2D data	Andrzej Górszczyk	Andrzej Górszczyk	NSM	Stefan Buske
14:15 A calibration experiment for the detection of weak stationary subsurface sources	Florian Bleibinhaus	Florian Bleibinhaus	NSM	Stefan Buske
14:40 Seismic anisotropy from 6 DoF Observations	Heiner Igel	Heiner Igel	NSM	Stefan Buske
<i>15:05 Cultural activity</i>				

Thursday

Title	First Author	Presenter	Session	Chair
08:30 A newly-discovered long-period signal in Apollo Seismic Data by unsupervised Deep Learning	Juan Li	Juan Li	NSM	Lotte Krawczyk
08:55 Simultaneous borehole-surface distributed acoustic sensing for mineral exploration in Blötberget, Sweden	Lea Gyger	Lea Gyger	NSM	Lotte Krawczyk
09:20 The internal structure of an Oceanic Core Complex at the Central Indian Ridge deduced from streamer tomography	Michael Schnabel	Michael Schnabel	NSM	Lotte Krawczyk
09:45 Innovative DAS Seismic Surveying in Ecologically Sensitive Terrains	Calin Cosma	Calin Cosma	NSM	Lotte Krawczyk
<hr/> <i>10:10 Coffee</i>				
10:40 Advancing seismic imaging: Fresnel volume migration in anisotropic and anelastic media	Niklas Kühne	Niklas Kühne	NSM	Michal Malinowski
11:05 A Novel Method for Determining P-Wave Speeds in the Uppermost Mantle (VPn)	Wang-Ping Chen	Wang-Ping Chen	NSM	Michal Malinowski
11:30 Model building and depth migration on non-typical deep seismic profile	Xiaomin Ruan	Xiaomin Ruan	NSM	Michal Malinowski
11:55 Shear-wave reflection imaging of vertical-component data: towards a nonaliased ultrahigh-resolution workflow	Alireza Malehmir	Alireza Malehmir	SIE	Michal Malinowski
<hr/> <i>12:20 Lunch</i>				
13:50 Multidimensional seismic imaging at the geothermal research platform Groß Schönebeck, north of Berlin/Germany	Charlotte Krawczyk	Charlotte Krawczyk	SIE	Tanni Abramowitz
14:15 2D and 3D reflection seismic surveying for imaging the sedimentary structure in the Sudret area of Gotland, Sweden	Chris Juhlin	Chris Juhlin	SIE	Tanni Abramowitz
14:40 Dual-purpose seismic imaging for geological carbon storage and near-surface characterization	Jolanta Putnaite	Jolanta Putnaite	SIE	Tanni Abramowitz
15:05 The seismogenic zone of the 2014 Orkney M5.5 earthquake, South Africa	Kaoru Fujita	Kaoru Fujita	SIE	Tanni Abramowitz
<hr/> <i>15:30 Coffee</i>				
<hr/> <i>16:00 Poster session</i>				

Friday

	Title	First Author	Presenter	Session	Chair
08:30	Time-lapse geophysical imaging of hydrogeological processes in near-surface – examples of Spitsbergen permafrost and critical objects in Poland	Mariusz Majdański	Mariusz Majdański	SEI	Ray Durrheim
08:55	–Who's fault is that? –Hardrocks! Seismic recognition of the faults in crystalline rocks for geothermal site characterization	Marta Cyz	Marta Cyz	SEI	Ray Durrheim
09:20	Origins of seismic harmonic tremors and associated infrasound in relation to cryosphere hazards in the Lützow-Holm Bay, East Antarctica	Masaki Kanao	Masaki Kanao	SEI	Ray Durrheim
09:45	Advanced Passive Seismic Methods for Cost-Effective, High-Resolution Near-Surface Exploration	Mehdi Tork Qashqai	Mehdi Tork Qashqai	SEI	Ray Durrheim
<i>10:10 Coffee</i>					
10:40	High-resolution 2D/3D seismic surveys for CCUS site characterisation in South Africa	Musa Manzi	Musa Manzi	SEI	Thomas Funck
11:05	Seismic characterization of geologic carbon storage sites in Denmark: Near-surface aspects	Myrto Papadopoulou	Myrto Papadopoulou	SEI	Thomas Funck
11:30	Insight into the evolution and the deep and shallow tectonic structures of the intraplate Osning Fault System in Germany	Sonja H. Wadas	Sonja H. Wadas	SEI	Thomas Funck
11:55	De-risking potential onshore CO2 storage sites in Denmark – insights from new public seismic data	Tanni Abramovitz	Tanni Abramovitz	SEI	Thomas Funck
<i>12:20 Lunch</i>					
13:50	Combined seismic reflection imaging and full-waveform inversion for overdeepenings: Setting the benchmarks	Thomas Burschil	Thomas Burschil	SEI	Sonja Wadas
14:15	Seismic imaging and assessment of a potential CO2 storage site in the Danish North Sea: The Jammerbugt structure	Thomas Funck	Thomas Funck	SEI	Sonja Wadas
14:40	High-resolution seismic reflection delineating the shallow subsurface geological structures in the urban area of Shenzhen, China	Zihui Wang	Zihui Wang	SEI	Sonja Wadas
15:05	Comparison of DAS and nodal sensor measurements for near-surface characterization	Ayse Kaslilar	Ayse Kaslilar	SEI	Sonja Wadas
<i>15:30 Coffee</i>					
16:00	<i>Roundup and selection of host for Seismix 2026</i>				Chris Juhlin

Poster #	Title	First Author	Presenter	Session
1	High-resolution velocity model reconstruction of the Japan Trench area affected by the petit-spot volcanism	Andrzej Górszczyk	Andrzej Górszczyk	ACM
2	Control of Sediment Types on the Distribution of Shallow-depth Seismicity within the Accretionary Wedge: Insight from the North Sulawesi Subduction Zone	ChuanChuan Lü	ChuanChuan Lü	ACM
3	Seismic velocity structure beneath the north arm of Sulawesi and the Molucca Sea collision zone, Indonesia	Pepen Supendi	Pepen Supendi	ACM
4	Reprocessing of DEKORP Data: New Images of the Earth's Crust and Upper Mantle below Bavaria, Germany	Felix Hloušek	Stefan Buske	CL
5	The lithospheric mantle structure beneath the Parnaíba Basin, Brazil: a key to unraveling basin genesis	José E.P. Soares	Randell Stephenson	CL
6	Estimating the detailed velocity structure from CMP-stacked deep crustal seismic reflection data	Klaus Holliger	Klaus Holliger	CL
7	The wide-angle reflection and refraction profile across Ukraine, SHIELD'21	Tomasz Janik	Tomasz Janik	CL
8	Revisit of Fennoscandian Shield on UPPLAND seismic profile, the competitive velocity models	Tomasz Janik	Tomasz Janik	CL
9	Polish Contribution to the Adria Array Passive Seismic Project	Wojciech Czuba	Wojciech Czuba	CL
10	Lithospheric structure beneath the Hoh Xil block in the northern Tibetan Plateau revealed by deep seismic reflection profile	Zhanwu Lu	Zhanwu Lu	CL
11	Are estimates of continental lower crustal composition based on seismic wide-angle measurements biased towards the mafic side?	Zheng Luo	Zheng Luo	CL
12	High-resolution seismic images of the marginal troughs of the Sorgenfrei - Tornquist zone (STZ): Late Cretaceous tectonic evolution, deposition and paleoceanographic implications	Yaocen Pan	Yaocen Pan	CL
13	Seismic imaging of the Balmuccia peridotite body (Northern Italy)	Britta Wawerzinek	Britta Wawerzinek	ICD
14	Integration of 2D reflection seismic data, VSP and borehole logs at the COSC-2 drill site, central Sweden	Chris Juhlin	Chris Juhlin	ICD
15	Seismic site characterization of the prospective ICDP/DIVE drill site at Balmuccia, Italy	Damiàn Pasiiecznik	Florian Bleibinhaus	ICD
16	A crustal-scale section of the NW Iberia: deformation mechanisms and transfer during the Alpine compression	Irene DeFelipe	Puy Ayarza	ICD
17	The INDEPTH-I Deep seismic profile in Himalayan Orogen: Views on the structure and leucogranites emplacement	Hongqiang Li	Hongqiang Li	ICD
18	Crustal Structure constrained by Deep Reflection Seismic Random Medium Correlation Length in the Middle section of Jiangnan Orogenic Belt	Yan Jiayong	Chen Changxin	ICD
19	Subduction Retreat Recorded in the South Beishan Block of the Central Asian Orogenic Belt: New Evidence from the Deep Seismic Reflection Profile	Xiaosong Xiong	Xiaosong Xiong	ICD
20	Preliminary study of P-wave velocities of the magma-poor Goban Spur margin off-shore Ireland	Gaye Bayrakci	Gaye Bayrakci	PCM
21	Geophysical constraints on the uppermost oceanic lithospheric structure across the J anomaly at 31oN, Northern Central Atlantic	Manel Prada	Manel Prada	PCM
22	A major mass-wasting event in the Mentelle Basin event revealed during IODP leg 369	Richard Hobbs	Richard Hobbs	PCM
23	Wide-angle seismic study in Canada Basin, Arctic Ocean	Thomas Funck	Thomas Funck	PCM
24	A Metal Earth Atlas of seismic reflection and magnetotelluric transects	John Ayer	David Snyder	ME

25 Geophysical transects in the Abitibi greenstone belt of Canada from the mineral-exploration-oriented Metal Earth project	Richard S. Smith	David Snyder	ME
26 New Insight to the Oceanic Core Complex at the Semenov hydrothermal field on the Mid-Atlantic Ridge from Wide-Angle Seismic Data	SzuYing Lai	SzuYing Lai	ME
27 Laterally constrained surface-wave dispersion curve inversion	Reza Esfahani	Ali Gholami	NSM
28 Efficient High-Resolution Crustal-Scale Imaging Using OBN and Streamer Data in the Semi-Non-linear Algorithm	Toktam Zand	Toktam Zand	NSM
29 Integrated Active Source and Nodal Passive Imaging at Kentland Crater: Investigating a Complex Impact Structure in NW Indiana	Brian Robitaille	Brian Robitaille	SIE
30 Seismic Reflection constraints on the fracture system bounding the Guadalentín Valley (SE Iberian Peninsula): The UnriDDLE Project	Hector Perea	Ramon Carbonell	SIE
31 Imaging the magmatic plumbing system beneath Askja Volcano, Iceland, with ambient noise tomography	Joseph Fone	Joseph Fone	SIE
32 3D High-Resolution Velocity Model Building for the Characterization of a Nuclear Waste Disposal Site (Asse, Lower Saxony)	Lena Bräunig	Lena Bräunig	SIE
33 Model-based acoustic impedance inversion for mapping gas plumes in the Stenlille gas storage aquifer	Maiken L. Olsen	Maiken L. Olsen	SIE
34 Shear-wave reflection seismic data uncover hidden neotectonic deformation features at the Osning Fault System	Sonja H. Wadas	Sonja H. Wadas	SIE
35 Development of seismic S-wave sources for near-surface applications at the Leibniz Institute for Applied Geophysics (LIAG)	Sonja H. Wadas	Sonja H. Wadas	SIE
36 Seismic imaging of Opalinus Clay and surrounding formations at the Mont Terri rock laboratory – case studies	Stefan Lüth	Britta Wawerzinek	SIE
37 Multi-scale seismic imaging of the Icelandic lithosphere	Thomas O'Hara	Thomas O'Hara	SIE

* The conference will be held at the Department of Earth Sciences, located at Villavägen 16. Check-in and badge pick-up opens at 9:00 on Monday morning, 24 June. Presentations start at 10:30. We will be about 90 people participating in the conference.

* Oral presentations are 20 minutes long with 5 minutes for questions and change of speaker. Presentations (Powerpoint or PDF format) should be uploaded in advance on the lecture room computer or e-mailed to Zibi at zbigniew.wilczynski@geo.uu.se. Speakers presenting on Monday are highly encouraged to e-mail their presentations in advance.

* The poster boards have a size of 137 cm high x 97 cm wide. A standing A0 is suitable, but the poster can be somewhat larger than an A0 if you like. We have some space for double boards (two x A0) so if you would like this configuration then please get back to us.

* Posters should be put up during check-in and remain up for the entire conference. Put the poster up at the board having the corresponding number to that in this Program

* The cultural event on Wednesday afternoon will include a visit to the Uppsala University museum Gustavianum where participants can view the museum on their own from 16:00 to 17:00. We will then cross the street and get a guided tour of the Uppsala Cathedral from 17:30 to 18:30. It is about a 15-20 minute walk from the Earth Sciences department (Geocentrum) to the museum and cathedral. If you would rather explore Uppsala on your own then please let us know so we can better plan the visits to the museum and cathedral. See websites for more info:

www.uu.se/en/gustavianum

www.svenskakyrkan.se/uppsaladomkyrka/information-in-english

* Organizations that are interested in hosting Seismix 2026 should inform us in advance and be prepared to present a 5 minute presentation during the Roundup session on Friday afternoon.



Cathedral

Gustavianum

Train station

Norrlands

Lunch

Geocentrum
Villavägen 16