Overview of Technical Program

Tuesday 30 April	Wednesday 1 May	Thursday 2 May	Friday 3 May
8:00 ам-4:30 рм	7:00 ам-5:00 рм	7:00 ам-5:00 рм	7:00 ам-5:00 рм
Alaska Geophysics in	Registration	Registration	Registration
the Field	Lobby	Lobby	Lobby
10:00 ам-4:00 рм	8:00-9:15 ам	7:15-8:00 AM	8:00-9:15 ам
Data Mining on the	Technical Sessions	GR Briefing	Technical Sessions
Cloud 101 Workshop	9:15-10:30 ам	Exhibit Hall	9:15-10:30 ам
Tikahtnu Ballroom C,	Poster Break	8:00-9:15 AM	Poster Break
Third Level	Exhibit Hall	Technical Sessions	Exhibit Hall
10:00 ам-4:00 рм	10:30-11:45 AM	9:15-10:30 AM	10:30-11:45 ам
Seismic	Technical Sessions	Poster Break	Technical Sessions
Instrumentation	11:45 ам-2:00 рм	Exhibit Hall	11:45 ам-2:00 рм
Workshop	Lunch Break	10:30-11:45 ам	Lunch Break
Tikahtnu Ballroom E/F,	Noon-1:00 PM	Technical Sessions	2:00-3:15 рм
Third Level	Newcomer's Welcome	Noon-1:45 PM	Technical Sessions
12:30-4:30 РМ	Lunch*	Annual Business and	3:15-4:30 рм
Publishing: How to	Exhibit Hall	Awards Luncheon	Poster Break
Review and How to Be	2:00-3:15 РМ	Exhibit Hall	Exhibit Hall
Reviewed Workshop	Technical Sessions	2:00-3:15 PM	4:30-5:45 рм
Kahtnu 1, Second Level	3:15-4:30 РМ	Technical Sessions	Technical Sessions
3:00-7:30 рм	Poster Break	3:15-4:30 PM	
Registration	Exhibit Hall	Poster Break	
Lobby	4:30-5:45 PM	Exhibit Hall	
4:30–6:00 PM	Technical Sessions	4:30-5:45 PM	
Opening Reception and	6:00-7:00 PM	Technical Sessions	_
Exhibits	Plenary	6:00-7:00 РМ	
Exhibit Hall	Tikahtnu Ballroom A/B,	Joyner Lecture	
6:00-7:00 PM	Third Level	Tikahtnu Ballroom	
Plenary	7:00-8:00 РМ	A/B, Third Level	_
Tikahtnu Ballroom A/B,	Student/Early-Career	7:00-8:00 PM	
Third Level	Reception*	Joyner Reception	
	Exhibit Hall	Tikahtnu Ballroom	
		Foyer, Third Level	
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^{*} Invite only

Wednesday, 1 May

Oral Sessions

Time	K'enakatnu 6/ Boardroom	Kahtnu 1	Kahtnu 2	Tikahtnu Ballroom A/B	Tikahtnu Ballroom C	Time	Tikahtnu Ballroom E/F	Tubughnenq' 3	Tubughnenq' 4	Tubughnenq' 5	
8:00-	From Faults to	How Well Can We	Induced Earthquakes:	The 2023 USGS	Creating Actionable	8:00-	Earth's Structure from the	Cryptic Faults: Advances	Numerical Modeling in	Learning Across Geologi-	
9:15 am	Fjords: Earthquake	Predict Broadband	Source Character-	National Seismic	Earthquake Informa-	9:15 am	Crust to the Core	in Characterizing Low	Seismology: Develop-	cal, Geophysical & Model-	
	Evidence in Terres-	Site-Specific Ground	istics, Mechanisms,	Hazard Model and	tion Products			Strain Rate and Environ-	ments and Applications	Derived Observations to	
	trial and Subaqueous	Motion and Its Spa-	Stress Field Modeling	Beyond				mentally Obscured Faults		Constrain Earthquake	
	Environments	tial Variability So Far?	and Hazards							Behavior	
9:15-			Poster Break			9:15-		Poste	r Break		
10:30 ам		T	T	Г		10:30 ам		1			
10:30-	From Faults to	How Well Can We	Induced Earthquakes:		Creating Actionable	10:30-	Earth's Structure from the	Cryptic Faults: Advances	Numerical Modeling in	Learning Across Geologi-	
11:45 ам	Fjords: Earthquake	Predict Broadband	Source Character-	National Seismic	Earthquake Informa-	11:45 ам	Crust to the Core	in Characterizing Low	Seismology: Develop-	cal, Geophysical & Model-	
	Evidence in Terres-	Site-Specific Ground	istics, Mechanisms,	Hazard Model and	tion Products			Strain Rate and Environ-	ments and Applications	Derived Observations to	
	trial and Subaqueous	1	Stress Field Modeling	Beyond				mentally Obscured Faults		Constrain Earthquake	
	Environments	tial Variability So Far?	and Hazards			-				Behavior	
11:45 ам– 2:00 рм			Lunch Break			11:45 AM- 2:00 PM	Lunch Break				
2:00-3:15 рм	From Faults to	How Well Can We	Induced Earthquakes:	The 2023 USGS	Network Seismol-	2:00-3:15 РМ	Earth's Structure from the	Towards Advancing Earth-	Numerical Modeling in	Learning Across Geologi-	
	Fjords: Earthquake	Predict Broadband	Source Character-	National Seismic	ogy: Recent Devel-		Crust to the Core	quake Forecasting and	Seismology: Develop-	cal, Geophysical & Model-	
	Evidence in Terres-	Site-Specific Ground	istics, Mechanisms,	Hazard Model and	opments, Challenges			Nowcasting: Recent Prog-	ments and Applications	Derived Observations to	
	trial and Subaqueous	Motion and Its Spa-	Stress Field Modeling	Beyond	and Lessons Learned			ress Using AI-Enhanced		Constrain Earthquake	
	Environments	tial Variability So Far?	and Hazards					Methods		Behavior	
3:15-4:30 рм			Poster Break			3:15-4:30 рм		Poste	r Break		
4:30-5:45 рм	From Faults to	Planetary Seismology	The OSIRIS-REx		Network Seismol-	4:30-5:45 РМ	Marine Seismoacoustics	Special Applications in	Translating Seismic Imag-	Structure, Seismicity and	
	Fjords: Earthquake		Sample Return		ogy: Recent Devel-			Seismology	ing into Geodynamic	Dynamics of the Queen	
	Evidence in Terres-		Capsule Re-entry:		opments, Challenges				Understanding	Charlotte-Fairweather	
	trial and Subaqueous		Geophysical Obser-		and Lessons Learned					Fault System	
	Environments		vations								
6:00-7:00 рм		Plenary: Challe	nges in Geohazards Re	search in Alaska		6:00-7:00 РМ	Plenary: Challenges in Geohazards Research in Alaska				
7:00-8:00 рм		Stud	ent/Early-Career Rece	otion		7:00-8:00 РМ		Student/Early-0	Career Reception		

Poster Sessions

- The 2023 USGS National Seismic Hazard Model and Beyond
- Creating Actionable Earthquake Information Products
- Cryptic Faults: Advances in Characterizing Low Strain Rate and Environmentally Obscured Faults
- From Faults to Fjords: Earthquake Evidence in Terrestrial and Subaqueous Environments
- How Well Can We Predict Broadband Site-Specific Ground Motion and Its Spatial Variability So Far?
- Induced Earthquakes: Source Characteristics, Mechanisms, Stress Field Modeling and Hazards
- Learning Across Geological, Geophysical & Model-Derived Observations to Constrain Earthquake Behavior
- Marine Seismoacoustics
- Network Seismology: Recent Developments, Challenges and Lessons Learned
- Numerical Modeling in Seismology: Developments and Applications
- The OSIRIS-REx Sample Return Capsule Re-entry: Geophysical Observations
- Special Applications in Seismology
- Structure, Seismicity and Dynamics of the Queen Charlotte-Fairweather Fault System
- Towards Advancing Earthquake Forecasting and Nowcasting: Recent Progress Using AI-Enhanced Methods
- Translating Seismic Imaging into Geodynamic Understanding

Time	Tikahtnu Ballroom E/F	Tubughnenq' 3	Tubughnenq' 4	Tubughnenq' 5			
8:00- 9:15 am	Earth's Structure from the Crust to the Core	Cryptic Faults: Advances in Characterizing Low Strain Rate and Environ- mentally Obscured Faults	Numerical Modeling in Seismology: Develop- ments and Applications	Learning Across Geological, Geophysical & Model- Derived Observations to Constrain Earthquake Behavior			
9:15– 10:30 ам		Poster	Break				
10:30– 11:45 AM	Earth's Structure from the Crust to the Core	Cryptic Faults: Advances in Characterizing Low Strain Rate and Environ- mentally Obscured Faults	Numerical Modeling in Seismology: Develop- ments and Applications	Learning Across Geological, Geophysical & Model- Derived Observations to Constrain Earthquake Behavior			
11:45 ам- 2:00 рм		Lunch	Break				
2:00-3:15 рм	Earth's Structure from the Crust to the Core	Towards Advancing Earth- quake Forecasting and Nowcasting: Recent Prog- ress Using AI-Enhanced Methods	Numerical Modeling in Seismology: Develop- ments and Applications	Learning Across Geological, Geophysical & Model-Derived Observations to Constrain Earthquake Behavior			
3:15-4:30 рм		Poster	· Break				
4:30-5:45 PM	Marine Seismoacoustics	Special Applications in Seismology	Translating Seismic Imaging into Geodynamic Understanding	Structure, Seismicity and Dynamics of the Queen Charlotte-Fairweather Fault System			
6:00-7:00 рм		Plenary: Challenges in Geo	hazards Research in Alaska				
7:00-8:00 рм	Student/Early-Career Reception						

Thursday, 2 May

Oral Sessions

Time	K'enakatnu 6/Boardroom	Kahtnu 1	Kahtnu 2	Tikahtnu Ballroom A/B	Time	Tikahtnu Ballroom C	Tikahtnu Ballroom E/F	Tubughnenq' 3	Tubughnenq' 4	Tubughnenq' 5
8:00- 9:15 am	3D Wavefield Simulations: From Seismic Imaging to Ground Motion Modelling	Multiplet Earthquake	Detecting, Characterizing and Monitoring Mass Movements	Seismic Monitoring, Modelling and Management Needed for Geothermal Energy and Geologic Carbon Storage	8:00– 9:15 am	Characteristics and Mechanics of Fault Zone Rupture Pro- cesses, from Micro to Macro Scales	Advancements in Forensic Seismol- ogy and Explosion Monitoring	Seismology in the Oceans: Pacific Hemisphere and Beyond	From Earthquake Recordings to Empirical Ground- Motion Modelling	Network Seismology: Recent Developments, Challenges and Lessons Learned
9:15- 10:30 ам		Poste	r Break		9:15– 10:30 am			Poster Break		
10:30- 11:45 am	3D Wavefield Simulations: From Seismic Imaging to Ground Motion Modelling	Multiplet Earthquake	Detecting, Characterizing and Monitoring Mass Movements	Seismic Monitoring, Modelling and Management Needed for Geothermal Energy and Geologic Carbon Storage	10:30– 11:45 ам	Characteristics and Mechanics of Fault Zone Rupture Pro- cesses, from Micro to Macro Scales	Advancements in Forensic Seismol- ogy and Explosion Monitoring	Seismology in the Oceans: Pacific Hemisphere and Beyond	From Earthquake Recordings to Empirical Ground- Motion Modelling	Network Seismology: Recent Developments, Challenges and Lessons Learned
Noon- 1:45 рм		Annual Business and	Noon- 1:45 pm	Annual Business and Awards Luncheon						
2:00- 3:15 pm	3D Wavefield Simulations: From Seismic Imaging to Ground Motion Modelling	Six Decades of Tsunami Science: From the Source of the 1964 Tsunami to Modern Community Pre- paredness	Detecting, Characterizing and Monitoring Mass Movements	Seismic Monitoring, Modelling and Management Needed for Geothermal Energy and Geologic Carbon Storage	2:00- 3:15 pm	Regional-Scale Haz- ard, Risk and Loss Assessments	Advancements in Forensic Seismol- ogy and Explosion Monitoring	Multidisciplinary Approaches for Volcanic Eruption Forecasting	From Earthquake Recordings to Empirical Ground- Motion Modelling	Network Seismology: Recent Developments, Challenges and Lessons Learned
3:15- 4:30 pm	Poster Break				3:15- 4:30 pm			Poster Break		
4:30- 5:45 pm	Applications and Discoveries in Cryoseismology Across Spatial and Temporal Scales	Special Applications in Seismology	New Insights into the Development, Testing and Communication of Seismicity Forecasts		4:30- 5:45 pm		Advancements in Forensic Seismol- ogy and Explosion Monitoring	Multidisciplinary Approaches for Volcanic Eruption Forecasting	Leveraging Cutting- Edge Cyberinfra- structure for Large Scale Data Analysis and Education	Cordilleran Strike- Slip Faults as Seis- mogenic and Seis- mological Features
6:00- 7:00 рм	Joyner Lecture: Why Seismic Hazard Modeling Has Become a Risky Business				6:00- 7:00 рм	Joyner Lecture: Why Seismic Hazard Modeling Has Become a Risky Business				siness
7:00– 8:00 pm		Joyner l	7:00– 8:00 рм			Joyner Reception				

Poster Sessions

- 3D Wavefield Simulations: From Seismic Imaging to Ground Motion Modelling
- Advancements in Forensic Seismology and Explosion Monitoring
- Applications and Discoveries in Cryoseismology Across Spatial and Temporal Scales
- Characteristics and Mechanics of Fault Zone Rupture Processes, from Micro to Macro Scales
- Cordilleran Strike-Slip Faults as Seismogenic and Seismological Features
- Detecting, Characterizing and Monitoring Mass Movements
- Earth's Structure from the Crust to the Core
- From Earthquake Recordings to Empirical Ground-Motion Modelling
- Illuminating Complex, Multiplet Earthquake Sequences at Kahramanmaras (Turkiye), Herat (Afghanistan), and Beyond
- Leveraging Cutting-Edge Cyberinfrastructure for Large Scale Data Analysis and Education
- Multidisciplinary Approaches for Volcanic Eruption Forecasting
- New Insights into the Development, Testing and Communication of Seismicity Forecasts
- Seismic Monitoring, Modelling and Management Needed for Geothermal Energy and Geologic Carbon Storage
- Seismology in the Oceans: Pacific Hemisphere and Beyond
- Six Decades of Tsunami Science: From the Source of the 1964 Tsunami to Modern Community Preparedness

Friday, 3 May

Oral Sessions

Time	K'enakatnu 6/Boardroom	Kahtnu 1	Kahtnu 2	Tikahtnu Ballroom A/B	Time	Tikahtnu Ballroom C	Tikahtnu Ballroom E/F	Tubughnenq' 3	Tubughnenq' 4	Tubughnenq' 5
8:00- 9:15 am	Advancing Seismology with Distributed Fiber Optic Sensing	Physics-Based Ground Motion Modeling	Seismoacoustic, Geodetic and Other Geophysical Investigations of Active Volcanoes	Structure and Behavior of the Alaska-Aleutian Subduction Zone	8:00- 9:15 am	The 2024 Magnitude 7.5 Earthquake and the Associated Earthquake Swarm Beneath the Noto Peninsula, Central Japan (See Supplemental Material)	End-to-End Advancements in Earthquake Early Warning Systems	Understanding and Quantifying the Vari- ability in Earthquake Source Parameter Measurements	Anisotropy Across Scales	Tectonics and Seismicity of Stable Continental Interiors
9:15- 10:30 am		Poste	r Break		9:15- 10:30 am			Poster Break		
10:30- 11:45 am	Advancing Seismology with Distributed Fiber Optic Sensing	Physics-Based Ground Motion Modeling	Seismoacoustic, Geodetic and Other Geophysical Investigations of Active Volcanoes	Structure and Behavior of the Alaska-Aleutian Subduction Zone	10:30- 11:45 am	The 2024 Magnitude 7.5 Earthquake and the Associated Earthquake Swarm Beneath the Noto Peninsula, Central Japan (See Supplemental Material)	End-to-End Advancements in Earthquake Early Warning Systems	Understanding and Quantifying the Vari- ability in Earthquake Source Parameter Measurements	Anisotropy Across Scales	Tectonics and Seismicity of Stable Continental Interiors
11:45 AM- 2:00 PM	Lunch Break				11:45 ам- 2:00 рм	,		Lunch Break		
2:00- 3:15 PM	Advancing Seismology with Distributed Fiber Optic Sensing	Assessing Seismic Hazard for Critical Facilities and Infrastructure—Insights and Challenges	Seismoacoustic, Geodetic and Other Geophysical Investigations of Active Volcanoes	Structure and Behavior of the Alaska-Aleutian Subduction Zone	2:00- 3:15 PM	ESC-SSA Joint Session: Climate Change and Environmental Seismology	End-to-End Advancements in Earthquake Early Warning Systems	Understanding and Quantifying the Vari- ability in Earthquake Source Parameter Measurements	Advances in Operational and Research Analysis of Earthquake Swarms	Tectonics and Seismicity of Stable Continental Interiors
3:15- 4:30 рм	Poster Break			3:15– 4:30 PM Poster Break						
4:30- 5:45 pm	From Geodynamics to Earthquake Rupture, Models That Cross Time- and Length-Scales	Assessing Seismic Hazard for Critical Facilities and Infrastructure—Insights and Challenges	Machine Learning for Full Waveform Inversion: From Hybrid to End-to-End Approaches	Structure and Behavior of the Alaska-Aleutian Subduction Zone	4:30- 5:45 pm	ESC-SSA Joint Session: Climate Change and Environmental Seismology	End-to-End Advancements in Earthquake Early Warning Systems		Advances in Operational and Research Analysis of Earthquake Swarms	Tectonics and Seismicity of Stable Continental Interiors

Poster Sessions

- The 2024 Magnitude 7.5 Earthquake and the Associated Earthquake Swarm Beneath the Noto Peninsula, Central Japan
- Advances in Operational and Research Analysis of Earthquake Swarms
- Advancing Seismology with Distributed Fiber Optic Sensing
- Anisotropy Across Scales
- Assessing Seismic Hazard for Critical Facilities and Infrastructure—Insights and Challenges
- End-to-End Advancements in Earthquake Early Warning Systems
- ESC-SSA Joint Session: Climate Change and Environmental Seismology
- From Geodynamics to Earthquake Rupture, Models That Cross Time- and Length-Scales
- Integrative Assessment of Soil-Structure Interaction and Local Site Effects in Seismic Hazard Analysis

- Machine Learning for Full Waveform Inversion: From Hybrid to End-to-End Approaches
- Physics-Based Ground Motion Modeling
- Regional-Scale Hazard, Risk and Loss Assessments
- Research Advances in "High-Impact", "Under-Studied" Earthquakes and Their Impacts on Communities
- Seismic Cycle-Driven Sea-Level Change Over Decades to Centuries: Observations and Projections
- Seismoacoustic, Geodetic and Other Geophysical Investigations of Active Volcanoes
- Structure and Behavior of the Alaska-Aleutian Subduction Zone
- Tectonics and Seismicity of Stable Continental Interiors
- Understanding and Quantifying the Variability in Earthquake Source Parameter Measurements