Overview of Technical Program

Monday 14 April	Tuesday 15 April	Wednesday 16 April	Thursday 17 April	Friday 18 April
1–4 PM	7 AM–5 PM	7:30 AM–5 PM	7:30 AM–5 PM	7 AM–5 PM
Pride of Baltimore Field	Registration	Registration	Registration	Smithsonian Private
Seminar	East Foyer	East Foyer	East Foyer	Tours and Washington
1–4:30 PM	8–9:15 AM	8–9:15 AM	8–9:15 AM	Fault Lines Field
How to Open a	Technical Sessions	Technical Sessions	Technical Sessions	Seminar
Presentation and Foster	9:15–10:30 AM	9:15–10:30 AM	9:15–10:30 AM	9 AM–Noon
a Great Q&A Workshop	Exhibits, Posters Break	Exhibits, Posters Break	Exhibits, Posters Break	Pride of Baltimore Field
Peale A-C	Key Ballroom 1-8	Key Ballroom 1-8	Key Ballroom 1-8	Seminar
1–5 PM	10:30–11:45 AM	10:30–11:45 AM	10:30–11:45 AM	
Building a High-	Technical Sessions	Technical Sessions	Technical Sessions	
Resolution Earthquake	11:45 AM-2 PM	Noon–2 PM	11:45 AM–2 PM	
Catalog from Raw	Lunch Break	Annual Business and	Lunch Break	
Waveforms: A Step-by-	2–3:15 PM	Awards Luncheon	2–3:15 PM	
Step Guide Workshop	Technical Sessions	Holiday Ballroom 4-6	Technical Sessions	
Key Ballroom 10	3:15–4:30 PM	2–3:15 PM	3:15–4:30 PM	
1–5 PM	Exhibits, Posters Break	Technical Sessions	Exhibits, Posters Break	
Distributed Acoustic	Key Ballroom 1-8	3:15-4:30 PM	Key Ballroom 1-8	
Sensing Open-source	4:30–5:45 PM	Exhibits, Posters Break	4:30–5:45 PM	
Software Workshop	Technical Sessions	Key Ballroom 1-8	Technical Sessions	
Key Ballroom 11	6–7 PM	4:30–5:45 PM		
3–7:30 PM	Plenary	Technical Sessions		
Registration Opens	Holiday Ballroom 4-6	6–7 PM		
East Fover	7–8 PM	Joyner Lecture		
5–6 PM	Student/Early-Career	Holiday Ballroom 4-6		
Opening Reception and	Reception*	7–8 PM		
Exhibits	Holiday Ballroom 2-3	Joyner Reception		
Exhibit Hall, Kev		Exhibit Hall, Key		
Ballroom 1-8		Ballroom 1-8		
6–7 PM				
Plenary				
Holiday Ballroom 4-6				

* Invite only event

Tuesday, 15 April

Oral Sessions

Time	Holiday Ballroom 1	Holiday Ballroom 4–6	Key Ballroom 9	Time	Key Ballroom 10	Key Ballroom 11	Key Ballroom 12	
8:00-	Adventures in Social Seismology:	Network Seismology: Recent Devel-	Fiber-optic Sensing Applications in	8:00-	Late-breaking on Recent and	Testing, Testing 1 2 3: Appropriate	From Physics to Forecasts:	
9:15 ам	Ethical Engagement, Earthquake	opments, Challenges and Lessons	Seismology	9:15 am	Future Large Earthquakes: see	Evaluation of New Seismic Hazard	Advancements and Future	
	Early Warnings, Operational Fore-	Learned			supplemental material	and Risk Models	Directions of Induced Seismicity	
	casts, and Beyond						Research	
9:15-10:30 ам		Poster Break		9:15-10:30 ам	Poster Break			
10:30-11:45 ам	Adventures in Social Seismology:	Network Seismology: Recent	Fiber-optic Sensing Applications	10:30-11:45 ам	Late-breaking on Recent and	Advancing Time-dependent	From Physics to Forecasts:	
	Ethical Engagement, Earthquake	Developments, Challenges and	in Seismology		Future Large Earthquakes: see	PSHA and Seismic Risk Assess-	Advancements and Future	
	Early Warnings, Operational Fore-	Lessons Learned			supplemental material	ment: Accounting for Short- to	Directions of Induced Seismicity	
	casts, and Beyond					Medium-term Clustering	Research	
11:45 ам– 2:00 рм	Lunch Break			11:45 ам- 2:00 рм	Lunch Break			
2:00-3:15 рм	Improving the State of the Art of	Network Seismology: Recent	Innovative Applications of Seismic	2:00-3:15 рм	Advanced Geophysical Observa-	Accuracy and Variability of	Mechanistic Insights into Fluid-	
	Earthquake Forecasting Through	Developments, Challenges and	Nodal Technology for Hazard		tions, Analytical Methods, and	Physics-based Ground Motion	induced Earthquakes from the	
	Models, Testing and Communica-	Lessons Learned	Mitigation and Earth System		New Insights for Earthquake	Modeling	Laboratory to the Field	
	tion		Monitoring		Swarms			
3:15-4:30 рм		Poster Break		3:15-4:30 рм	Poster Break			
4:30-5:45 рм	Building and Decoding High-res-	ESC-SSA Joint Session:Seismology	Geophysics in a Changing World:	4:30-5:45 рм	Scientific Machine Learning for	Accuracy and Variability of	Mechanistic Insights into Fluid-	
	olution Earthquake Catalogs With	in the Global Oceans: Advances in	Monitoring Applications from		Forward and Inverse Wave Equa-	Physics-based Ground Motion	induced Earthquakes from the	
	Statistical and Machine-learning	Methods and Observations	Seismology and Beyond		tion Problems	Modeling	Laboratory to the Field	
	Tools							
6:00-7:00 рм	I Keynote Address: The USGS Earthquake Hazards Program at the Interface of Science and Policy 6:00-7:00 рм Keynote Address: The USGS Earthquake Hazards			Earthquake Hazards Program at the	Interface of Science and Policy			
7:00-8:00 рм	Student/Early-Career Reception			7:00-8:00 рм	Student/Early-Career Reception			

Poster Sessions

- Accuracy and Variability of Physics-based Ground Motion Modeling
- Advanced Geophysical Observations, Analytical Methods, and New Insights for Earthquake Swarms
- Advancing Time-dependent PSHA and Seismic Risk Assessment: Accounting for Short- to Medium-term Clustering
- Adventures in Social Seismology: Ethical Engagement, Earthquake Early Warnings, Operational Forecasts, and Beyond
- Building and Decoding High-resolution Earthquake Catalogs With Statistical and Machine-learning Tools
- ESC-SSA Joint Session:Seismology in the Global Oceans: Advances in Methods and Observations
- Fiber-optic Sensing Applications in Seismology
- From Physics to Forecasts: Advancements and Future Directions of Induced Seismicity Research
- Geophysics in a Changing World: Monitoring Applications from Seismology and Beyond
- Improving the State of the Art of Earthquake Forecasting Through Models, Testing and Communication
- Innovative Applications of Seismic Nodal Technology for Hazard Mitigation and Earth System Monitoring
- Late-breaking on Recent and Future Large Earthquakes
- Mechanistic Insights into Fluid-induced Earthquakes from the Laboratory to the Field
- Network Seismology: Recent Developments, Challenges and Lessons Learned
- Scientific Machine Learning for Forward and Inverse Wave Equation Problems
- Testing, Testing 1 2 3: Appropriate Evaluation of New Seismic Hazard and Risk Models

Wednesday, 16 April

Oral Sessions

Time	Holiday Ballroom 1	Holiday Ballroom 4–6	Key Ballroom 9	Time	Key Ballroom 10	Key Ballroom 11	Key Ballroom 12	
8:00-	Performance and Progress of		Earth's Structure from the Crust to	8:00-	The Landscape Record of Earth-	Recent Advances in Modeling	Advances in Reliable Earthquake	
9:15 ам	Earthquake Early Warning Sys-		the Core	9:15 ам	quakes and Faulting	Near-source Ground Motions for	Source Parameter Estimation	
	tems Around the World					Seismic Hazard Applications		
9:15-10:30 ам	Poster Break			9:15-10:30 ам	9:15–10:30 AM Poster Break			
10:30-11:45 ам	Performance and Progress of		Earth's Structure from the Crust to	10:30-11:45 ам	The Landscape Record of Earth-	Recent Advances in Modeling	Advances in Reliable Earthquake	
	Earthquake Early Warning Sys-		the Core		quakes and Faulting	Near-source Ground Motions for	Source Parameter Estimation	
	tems Around the World					Seismic Hazard Applications		
11:45 ам- 2:00 рус	Annual Business and Awards Luncheon		n l	11:45 AM- Annual Business and Awards Luncheon				
2:00 PM				2:00 PM				
2:00-3:15 рм	Data-driven and Computational		Earth's Structure from the Crust to	2:00-3:15 рм	Unusual Earthquakes and Their	Station Installations and Site	Advances in Reliable Earthquake	
	Characterization of Non-earth-		the Core		Implications	Conditions, a Quest for Improved	Source Parameter Estimation	
	quake Seismoacoustic Sources					Strong Motion Database		
3:15-4:30 рм	Poster Break			3:15-4:30 рм	Poster Break			
4:30-5:45 рм	Fifty Years and Beyond of Broad-		Earth's Structure from the Crust to	4:30-5:45 рм	Predictability of Seismic and	Station Installations and Site	Seismology for the Energy Transi-	
	band Seismic Instrumentation:		the Core		Aseismic Slip: From Basic Science	Conditions, a Quest for Improved	tion	
	Performance, Precision and				to Operational Forecasts	Strong Motion Database		
	Uncertainties				-			
6:00-7:00 рм	Joyner Lecture: Risk and Reward: Working at the Boundaries of Earthquake Science		es of Earthquake Science	6:00-7:00 рм	Joyner Lecture: Risk and Reward: Working at the Boundaries of Earthquake Science			
7:00-8:00 рм	Joyner Reception			7:00-8:00 рм	Joyner Reception			

Poster Sessions

- Advances in Reliable Earthquake Source Parameter Estimation
- Data-driven and Computational Characterization of Non-earthquake Seismoacoustic Sources
- Earth's Structure from the Crust to the Core
- Fifty Years and Beyond of Broadband Seismic Instrumentation: Performance, Precision and Uncertainties
- The Landscape Record of Earthquakes and Faulting
- Performance and Progress of Earthquake Early Warning Systems Around the World
- Predictability of Seismic and Aseismic Slip: From Basic Science to Operational Forecasts
- Recent Advances in Modeling Near-source Ground Motions for Seismic Hazard Applications
- Seismology for the Energy Transition
- Station Installations and Site Conditions, a Quest for Improved Strong Motion Database
- Unusual Earthquakes and Their Implications

Thursday, 17 April

Oral Sessions

Time	Holiday Ballroom 1	Holiday Ballroom 4–6	Key Ballroom 9	Time	Key Ballroom 10	Key Ballroom 11	Key Ballroom 12
8:00-	Exploring Planetary Interiors	Advancements in Forensic Seis-	Numerical Modeling in Seismol-	8:00-	Earthquakes, Lithospheric Struc-	Challenges and Opportunities	Earthquake-triggered Ground
9:15 am	and Seismology: Observations,	mology and Explosion Monitoring	ogy: Theory, Algorithms and	9:15 am	ture, and Dynamics in Stable	in Constraining Ground-motion	Failure: Data, Hazards, Impacts
	Models, Experiments and Future		Applications		Continental Region	Models from Physics-based	and Models
	Missions					Ground-motion Simulations	
9:15-10:30 ам		Poster Break		9:15-10:30 ам	Poster Break		
10:30-11:45 ам	Visualization and Sonification in	Advancements in Forensic Seis-	Numerical Modeling in Seismol-	10:30-11:45 ам	Earthquakes, Lithospheric Struc-	Challenges and Opportunities	Why Ignore the Structure? Soil-
	Solid Earth Geosciences, What's	mology and Explosion Monitoring	ogy: Theory, Algorithms and		ture, and Dynamics in Stable	in Constraining Ground-motion	structure Interaction and Site
	Next?		Applications		Continental Region	Models from Physics-based	Response at Local and Regional
						Ground-motion Simulations	Scales
11:45 ам– 2:00 рм	Lunch Break		11:45 ам– 2:00 рм	Lunch Break			
2:00-3:15 рм	Earthquake Shaking and the	Advancements in Forensic Seis-	New Directions in Environmen-	2:00-3:15 рм	Exploring the Complexity of Fault	Challenges and Opportunities	Macroseismic Intensity: Past,
	Geologic Record: Triggered	mology and Explosion Monitoring	tal, Seismic Hazard and Mineral		Discontinuities	in Constraining Ground-motion	Present and Future
	Phenomena and Preserved Fragile		Resource Exploration Studies			Models from Physics-based	
	Geologic Features					Ground-motion Simulations	
3:15-4:30 рм	Poster Break		3:15-4:30 рм	Poster Break			
4:30-5:45 рм		Advancements in Forensic Seis-	New Directions in Environmen-	4:30-5:45 рм	Compiling Active Faults for	Modern Waveform Processing and	
		mology and Explosion Monitoring	tal, Seismic Hazard and Mineral		Improved Hazard Modeling from	Engineering Datasets - Accessibil-	
			Resource Exploration Studies		Cascadia to Alaska	ity, Quality Control, and Metadata	

Poster Sessions

- Advancements in Forensic Seismology and Explosion Monitoring
- Advancing Seismic Hazard Models
- Challenges and Opportunities in Constraining Ground-motion Models from Physics-based Ground-motion Simulations
- Compiling Active Faults for Improved Hazard Modeling from Cascadia to Alaska
- Earthquake Shaking and the Geologic Record: Triggered Phenomena and Preserved Fragile Geologic Features
- Earthquake-triggered Ground Failure: Data, Hazards, Impacts and Models
- Earthquakes, Lithospheric Structure, and Dynamics in Stable Continental Region
- Exploring Planetary Interiors and Seismology: Observations, Models, Experiments and Future Missions
- Exploring the Complexity of Fault Discontinuities
- Macroseismic Intensity: Past, Present and Future
- Modern Waveform Processing and Engineering Datasets Accessibility, Quality Control, and Metadata
- New Directions in Environmental, Seismic Hazard and Mineral Resource Exploration Studies
- Numerical Modeling in Seismology: Theory, Algorithms and Applications
- Temporally Variable Records of Earthquake Behavior and Considerations for Seismic Hazard Analyses
- Why Ignore the Structure? Soil-structure Interaction and Site Response at Local and Regional Scales