Overview of Technical Program

Monday 14 April

1–4 PM
Pride of Baltimore Field Seminar

1–4:30 PM
How to Open a Presentation and Foster a Great Q&A Workshop
Peale A-C

1–5 PM
Building a High-Resolution Earthquake Catalog from Raw Waveforms: A Step-by-Step Guide Workshop
Key Ballroom 10

1–5 PM
Distributed Acoustic Sensing Open-source Software Workshop
Key Ballroom 11

3–7:30 PM
Registration Opens
East Foyer

5–6 PM
Opening Reception and Exhibits
Exhibit Hall, Key Ballroom 1-8

6–7 PM
Plenary
Holiday Ballroom 4-6

Tuesday 15 April

7 AM–5 PM
Registration
East Foyer

8–9:15 AM
Technical Sessions

9:15–10:30 AM
Exhibits, Posters Break
Key Ballroom 1-8

10:30–11:45 AM
Technical Sessions

11:45 AM–2 PM
Lunch Break

2–3:15 PM
Technical Sessions

3:15–4:30 PM
Exhibits, Posters Break
Key Ballroom 1-8

4:30–5:45 PM
Technical Sessions

6–7 PM
Plenary
Holiday Ballroom 4-6

7–8 PM
Student/Early-Career Reception*
Holiday Ballroom 2-3

Wednesday 16 April

7:30 AM–5 PM
Registration
East Foyer

8–9:15 AM
Technical Sessions

9:15–10:30 AM
Exhibits, Posters Break
Key Ballroom 1-8

10:30–11:45 AM
Technical Sessions

Noon–2 PM
Annual Business and Awards Luncheon
Holiday Ballroom 4-6

2–3:15 PM
Technical Sessions

3:15–4:30 PM
Exhibits, Posters Break
Key Ballroom 1-8

4:30–5:45 PM
Technical Sessions

6–7 PM
Joyner Lecture
Holiday Ballroom 4-6

7–8 PM
Joyner Reception
Exhibit Hall, Key Ballroom 1-8

Thursday 17 April

7:30 AM–5 PM
Registration
East Foyer

8–9:15 AM
Technical Sessions

9:15–10:30 AM
Exhibits, Posters Break
Key Ballroom 1-8

10:30–11:45 AM
Technical Sessions

11:45 AM–2 PM
Lunch Break

2–3:15 PM
Technical Sessions

3:15–4:30 PM
Exhibits, Posters Break
Key Ballroom 1-8

4:30–5:45 PM
Technical Sessions

Friday 18 April

7 AM–5 PM
Smithsonian Private Tours and Washington Fault Lines Field Seminar

9 AM–Noon
Pride of Baltimore Field Seminar

* Invite only event

Tuesday, 15 April

Oral Sessions

Time	*Holiday Ballroom 1*	*Holiday Ballroom 4–6*	*Key Ballroom 9*
8:00–9:15 AM	Adventures in Social Seismology: Ethical Engagement, Earthquake Early Warnings, Operational Forecasts, and Beyond	Network Seismology: Recent Developments, Challenges and Lessons Learned	Fiber-optic Sensing Applications in Seismology
9:15–10:30 AM	Poster Break		
10:30–11:45 AM	Adventures in Social Seismology: Ethical Engagement, Earthquake Early Warnings, Operational Forecasts, and Beyond	Network Seismology: Recent Developments, Challenges and Lessons Learned	Fiber-optic Sensing Applications in Seismology
11:45 AM–2:00 PM	Lunch Break		
2:00–3:15 PM	Improving the State of the Art of Earthquake Forecasting Through Models, Testing and Communication	Network Seismology: Recent Developments, Challenges and Lessons Learned	Innovative Applications of Seismic Nodal Technology for Hazard Mitigation and Earth System Monitoring
3:15–4:30 PM	Poster Break		
4:30–5:45 PM	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	Geophysics in a Changing World: Monitoring Applications from Seismology and Beyond
6:00–7:00 PM	Keynote Address: The USGS Earthquake Hazards Program at the Interface of Science and Policy		
7:00–8:00 PM	Student/Early-Career Reception		

Time	*Key Ballroom 10*	*Key Ballroom 11*	*Key Ballroom 12*
8:00–9:15 AM	Late-breaking on Recent and Future Large Earthquakes: see supplemental material	Testing, Testing 1 2 3: Appropriate Evaluation of New Seismic Hazard and Risk Models	From Physics to Forecasts: Advancements and Future Directions of Induced Seismicity Research
9:15–10:30 AM	Poster Break		
10:30–11:45 AM	Late-breaking on Recent and Future Large Earthquakes: see supplemental material	Advancing Time-dependent PSHA and Seismic Risk Assessment: Accounting for Short- to Medium-term Clustering	From Physics to Forecasts: Advancements and Future Directions of Induced Seismicity Research
11:45 AM–2:00 PM	Lunch Break		
2:00–3:15 PM	Advanced Geophysical Observations, Analytical Methods, and New Insights for Earthquake Swarms	Accuracy and Variability of Physics-based Ground Motion Modeling	Mechanistic Insights into Fluid-induced Earthquakes from the Laboratory to the Field
3:15–4:30 PM	Poster Break		
4:30–5:45 PM	Scientific Machine Learning for Forward and Inverse Wave Equation Problems	Accuracy and Variability of Physics-based Ground Motion Modeling	Mechanistic Insights into Fluid-induced Earthquakes from the Laboratory to the Field
6:00–7:00 PM	Keynote Address: The USGS Earthquake Hazards Program at the Interface of Science and Policy		
7:00–8:00 PM	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*
8:00–9:15 AM	Performance and Progress of Earthquake Early Warning Systems Around the World		Earth's Structure from the Crust to the Core
9:15–10:30 AM	Poster Break		
10:30–11:45 AM	Performance and Progress of Earthquake Early Warning Systems Around the World		Earth's Structure from the Crust to the Core
11:45 AM–2:00 PM	Annual Business and Awards Luncheon		
2:00–3:15 PM	Data-driven and Computational Characterization of Non-earthquake Seismoacoustic Sources		Earth's Structure from the Crust to the Core
3:15–4:30 PM	Poster Break		
4:30–5:45 PM	Fifty Years and Beyond of Broadband Seismic Instrumentation: Performance, Precision and Uncertainties		Earth's Structure from the Crust to the Core
6:00–7:00 PM	Joyner Lecture: Risk and Reward: Working at the Boundaries of Earthquake Science		
7:00–8:00 PM	Joyner Reception		

Time	*Key Ballroom 10*	*Key Ballroom 11*	*Key Ballroom 12*
8:00–9:15 AM	The Landscape Record of Earthquakes and Faulting	Recent Advances in Modeling Near-source Ground Motions for Seismic Hazard Applications	Advances in Reliable Earthquake Source Parameter Estimation
9:15–10:30 AM	Poster Break		
10:30–11:45 AM	The Landscape Record of Earthquakes and Faulting	Recent Advances in Modeling Near-source Ground Motions for Seismic Hazard Applications	Advances in Reliable Earthquake Source Parameter Estimation
11:45 AM–2:00 PM	Annual Business and Awards Luncheon		
2:00–3:15 PM	Unusual Earthquakes and Their Implications	Station Installations and Site Conditions, a Quest for Improved Strong Motion Database	Advances in Reliable Earthquake Source Parameter Estimation
3:15–4:30 PM	Poster Break		
4:30–5:45 PM	Predictability of Seismic and Aseismic Slip: From Basic Science to Operational Forecasts	Station Installations and Site Conditions, a Quest for Improved Strong Motion Database	Seismology for the Energy Transition
6:00–7:00 PM	Joyner Lecture: Risk and Reward: Working at the Boundaries of Earthquake Science		
7:00–8:00 PM	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*
8:00–9:15 AM	Exploring Planetary Interiors and Seismology: Observations, Models, Experiments and Future Missions	Advancements in Forensic Seismology and Explosion Monitoring	Numerical Modeling in Seismology: Theory, Algorithms and Applications
9:15–10:30 AM	Poster Break		
10:30–11:45 AM	Visualization and Sonification in Solid Earth Geosciences, What's Next?	Advancements in Forensic Seismology and Explosion Monitoring	Numerical Modeling in Seismology: Theory, Algorithms and Applications
11:45 AM–2:00 PM	Lunch Break		
2:00–3:15 PM	Earthquake Shaking and the Geologic Record: Triggered Phenomena and Preserved Fragile Geologic Features	Advancements in Forensic Seismology and Explosion Monitoring	New Directions in Environmental, Seismic Hazard and Mineral Resource Exploration Studies
3:15–4:30 PM	Poster Break		
4:30–5:45 PM		Advancements in Forensic Seismology and Explosion Monitoring	New Directions in Environmental, Seismic Hazard and Mineral Resource Exploration Studies

Time	*Key Ballroom 10*	*Key Ballroom 11*	*Key Ballroom 12*
8:00–9:15 AM	Earthquakes, Lithospheric Structure, and Dynamics in Stable Continental Region	Challenges and Opportunities in Constraining Ground-motion Models from Physics-based Ground-motion Simulations	Earthquake-triggered Ground Failure: Data, Hazards, Impacts and Models
9:15–10:30 AM	Poster Break		
10:30–11:45 AM	Earthquakes, Lithospheric Structure, and Dynamics in Stable Continental Region	Challenges and Opportunities in Constraining Ground-motion Models from Physics-based Ground-motion Simulations	Why Ignore the Structure? Soil-structure Interaction and Site Response at Local and Regional Scales
11:45 AM–2:00 PM	Lunch Break		
2:00–3:15 PM	Exploring the Complexity of Fault Discontinuities	Challenges and Opportunities in Constraining Ground-motion Models from Physics-based Ground-motion Simulations	Macroseismic Intensity: Past, Present and Future
3:15–4:30 PM	Poster Break		
4:30–5:45 PM	Compiling Active Faults for Improved Hazard Modeling from Cascadia to Alaska	Modern Waveform Processing and Engineering Datasets - Accessibility, 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