Overview of Technical Program

Monday 17 April	*Tuesday 18 April*	*Wednesday 19 April*	*Thursday 20 April*	*Friday 21 April*
8 AM–5 PM Workshop: Post-earthquake Reconnaissance: Turning Disasters into Knowledge	8–9:15 AM Oral Sessions	8–9:15 AM Oral Sessions	8–9:15 AM Oral Sessions	7 AM–10 PM 2020 Southwestern Puerto Rico Seismic Sequence
10 AM–4 PM Workshop: Optimizing Seismic Hazard Assessments	9:15–10 AM Poster Break	9:15–10:30 AM Poster Break	9:15–10 AM Poster Break	8 AM–Noon Old San Juan Walking Tour
2–5 PM Workshop: Getting Published—Writing Papers, Working with Editors, Responding to Reviews	10–11:15 AM Oral Sessions	10:30–11:45 AM Oral Sessions	10–11:15 AM Oral Sessions	8 AM–Noon TsunamiReady Program
2–5 PM Workshop: DAS	11:30 AM–12:30 PM *Plenary*: Erouscilla P. Joseph	12:00 NOON–2:00 PM Awards Luncheon	11:30 AM–12:30 PM Machine Learning (panel)	
3–7 PM Registration Open	12:30–2 PM Lunch Break	12:30–2 PM Lunch Break	12:30–2 PM Lunch Break	
5–6:30 PM Opening Reception	2–3:15 PM Oral Sessions	2–3:15 PM Oral Sessions	2–3:15 PM Oral Sessions	
6:30–7:30 PM *Keynote Plenary:* José A. Martinez-Cruzado	3:15–4:30 PM Poster Break	3:15–4:30 PM Poster Break	3:15–4:30 PM Poster Break	
	4:30–5:45 PM Oral Sessions	4:30–5:45 PM Oral Sessions	4:30–5:45 PM Oral Sessions	
	6–7 PM *Plenary:* Tsunami Hazards (panel)	6–7 PM Joyner Lecture		
	7–8 PM Student/Early-Career Reception	7–8 PM Joyner Reception		

Tuesday, 18 April

Oral Sessions

Time	*202B/C*	*203*	*204*	*208A*	*208B*
8:00–9:15 AM	Earthquake Source Parameters: Theory, Observations and Interpretations	TBA	Collective Impact in Earthquake Science	USGS National Seismic Hazard Models: 2023 and Beyond	Seismology's Role in Assessing Volcanic Hazard at Multiple Time Scales
9:15–10:00 AM	Poster Break				
10:00–11:15 AM	Earthquake Source Parameters: Theory, Observations and Interpretations	TBA	Monitoring Climate Change With Seismology	USGS National Seismic Hazard Models: 2023 and Beyond	Seismology's Role in Assessing Volcanic Hazard at Multiple Time Scales
11:30 AM–12:30 PM	Erouscilla P. Joseph, The University of West Indies: Volcanism in the Eastern Caribbean: Hazards, Monitoring, Challenges and Lessons Learnt				
12:30–2:00 PM	Lunch Break				
2:00–3:15 PM	Earthquake Source Parameters: Theory, Observations and Interpretations	TBA	Transforming our Seismological Community through Inclusive Mentorship and Diverse Narratives	USGS National Seismic Hazard Models: 2023 and Beyond	Advances in Characterizing Seismic Hazard and Forecasting Risk in Hydrocarbon Systems
3:15–4:30 PM	Poster Break				
4:30–5:45 PM	Earthquake Source Parameters: Theory, Observations and Interpretations	TBA	Seismology for the Energy Transition	2025 Puerto Rico and the U.S. Virgin Islands National Seismic Hazard Model Update	Advances in Characterizing Seismic Hazard and Forecasting Risk in Hydrocarbon Systems
6:00–7:00 PM	The Future of Tsunami Hazards and Readiness Research Panel Discussion				
7:00–8:30 PM	Student/Early-Career Reception				

Time	*208C*	*209A*	*209B*	*209C*
8:00–9:15 AM	High-frequency Ground Motion Measurements, Assessments and Predictions	The 2020-2021 Southwest Puerto Rico Seismic Sequence: Current State of Knowledge and Implications	Earth's Structure From the Crust to the Core	De-risking Deep Geothermal Projects: Geophysical Monitoring and Forecast Modeling Advances
9:15–10:00 AM	Poster Break			
10:00–11:15 AM	From Sensors and Networks to Site Characterization and Site Response: Coming Full Circle	The 2020–2021 Southwest Puerto Rico Seismic Sequence: Current State of Knowledge and Implications	Earth's Structure From the Crust to the Core	De-risking Deep Geothermal Projects: Geophysical Monitoring and Forecast Modeling Advances
11:30 AM–12:30 PM	Erouscilla P. Joseph, The University of West Indies: Volcanism in the Eastern Caribbean: Hazards, Monitoring, Challenges and Lessons Learnt			
12:30–2:00 PM	Lunch Break			
2:00–3:15 PM	From Sensors and Networks to Site Characterization and Site Response: Coming Full Circle	Advances in Marine Seismoacoustics	Earth's Structure From the Crust to the Core	Legacy Seismic Data Collections: The Present State of and Future Outlook for Data from the Past
3:15–4:30 PM	Poster Break			
4:30–5:45 PM	Future Directions in Physics-based Ground-motion Modeling in Preparation for the Fall 2023 Meeting	Single-station Passive Exploration Methods: Status and Perspectives	Emerging Developments in Operational Monitoring Systems and Products	Advancing Science With Global Seismological and Geophysical Networks
6:00–7:00 PM	The Future of Tsunami Hazards and Readiness Research Panel Discussion			
7:00–8:30 PM	Student/Early-Career Reception			

Poster Sessions

- The 2020-2021 Southwest Puerto Rico Seismic Sequence: Current State of Knowledge and Implications
- 2025 Puerto Rico and the U.S. Virgin Islands National Seismic Hazard Model Update
- Advances in Characterizing Seismic Hazard and Forecasting Risk in Hydrocarbon Systems
- Advances in Marine Seismoacoustics
- Advancing Science With Global Seismological and Geophysical Networks
- Collective Impact in Earthquake Science
- De-risking Deep Geothermal Projects: Geophysical Monitoring and Forecast Modeling Advances
- Earth's Structure From the Crust to the Core
- Earthquake Source Parameters: Theory, Observations and Interpretations
- Emerging Developments in Operational Monitoring Systems and Products
- From Sensors and Networks to Site Characterization and Site Response: Coming Full Circle
- Future Directions in Physics-based Ground-motion Modeling in Preparation for the Fall 2023 Meeting
- General Seismology
- Geophysical Data Analysis in Cloud Computing Environments
- High-frequency Ground Motion Measurements, Assessments and Predictions
- Legacy Seismic Data Collections: The Present State of and Future Outlook for Data from the Past
- Monitoring Climate Change With Seismology
- Normal Faults: From Source to Surface
- Seismology for the Energy Transition
- Seismology's Role in Assessing Volcanic Hazard at Multiple Time Scales
- Single-station Passive Exploration Methods: Status and Perspectives
- Transforming our Seismological Community through Inclusive Mentorship and Diverse Narratives
- USGS National Seismic Hazard Models: 2023 and Beyond

Wednesday, 19 April

Oral Sessions

Time	*202B/C*	*203*	*204*	*208A*
8:00–9:15 AM	Site-specific Modeling of Seismic Ground Response: Are We Quantitative Enough to Predict?	New Methods and Models for More Informative Earthquake Forecasting	Understanding and Managing Induced Seismicity	Advances in Probabilistic Seismic Hazard Analysis and Applications
9:15–10:30 AM	Poster Break			
10:30–11:45 AM	Site-specific Modeling of Seismic Ground Response: Are We Quantitative Enough to Predict?	New Methods and Models for More Informative Earthquake Forecasting	Understanding and Managing Induced Seismicity	Advances in Probabilistic Seismic Hazard Analysis and Applications
Noon–2:00 PM	Awards Luncheon and Presidential Address			
2:00–3:15 PM	ShakeMap-related Research, Development, Operations, Applications and Uses	Exploiting Explosion Sources: Advancements in Seismic Source Physics	Understanding and Managing Induced Seismicity	Advances in Probabilistic Seismic Hazard Analysis and Applications
3:15–4:30 PM	Poster Break			
4:30–5:45 PM	ShakeMap-related Research, Development, Operations, Applications and Uses	Exploiting Explosion Sources: Advancements in Seismic Source Physics		New Observations and Modeling of Triggered Seismicity
6:00–7:00 PM	Joyner Lecture			
7:00–8:00 PM	Joyner Reception			

Time	*208B*	*208C*	*209A*	*209B*	*209C*
8:00–9:15 AM	Subduction Zone Structure From Trench to Arc	Understanding Earth Systems with Fiber-optic Cables			Detecting, Locating, Characterizing and Monitoring Non-earthquake Seismoacoustic Sources
9:15–10:30 AM	Poster Break				
10:30–11:45 AM	Subduction Zone Structure From Trench to Arc	Understanding Earth Systems with Fiber-optic Cables	Tectonics and Seismicity of Stable Continental Interiors	Opportunities and Challenges for Machine Learning Applications in Seismology	Detecting, Locating, Characterizing and Monitoring Non-earthquake Seismoacoustic Sources
Noon–2:00 PM	Awards Luncheon and Presidential Address				
2:00–3:15 PM	Structure and Properties of Subducting Slabs and Deep Earthquakes		Tectonics and Seismicity of Stable Continental Interiors	Opportunities and Challenges for Machine Learning Applications in Seismology	Detecting, Locating, Characterizing and Monitoring Non-earthquake Seismoacoustic Sources
3:15–4:30 PM	Poster Break				
4:30–5:45 PM	The Future of Tsunami Science, Preparedness and Response	Above the Seismogenic Zone: Fault Damage and Healing in the Shallow Crust	Tectonics and Seismicity of Stable Continental Interiors	Opportunities and Challenges for Machine Learning Applications in Seismology	
6:00–7:00 PM					
7:00–8:00 PM					

Poster Sessions

- Above the Seismogenic Zone: Fault Damage and Healing in the Shallow Crust
- Detecting, Locating, Characterizing and Monitoring Non-earthquake Seismoacoustic Sources
- Exploiting Explosion Sources: Advancements in Seismic Source Physics
- New Methods and Models for More Informative Earthquake Forecasting
- New Observations and Modeling of Triggered Seismicity
- Opportunities and Challenges for Machine Learning Applications in Seismology
- ShakeMap-related Research, Development, Operations, Applications and Uses
- Site-specific Modeling of Seismic Ground Response: Are We Quantitative Enough to Predict?
- Structure and Properties of Subducting Slabs and Deep Earthquakes
- Subduction Zone Structure From Trench to Arc
- Tectonics and Seismicity of Stable Continental Interiors
- The Future of Tsunami Science, Preparedness and Response
- Understanding and Managing Induced Seismicity
- Understanding Earth Systems with Fiber-optic Cables

Thursday, 20 April

Oral Sessions

Time	*202B/C*	*204*	*208A*	*208B*
8:00–9:15 AM	Network Seismology: Recent Developments, Challenges and Lessons Learned	Crustal Deformation and Seismic Hazard in Western Canada, Cascadia and Alaska	Opportunities and Challenges in Source Modeling for Seismic Hazard Analysis	Coseismic Ground Failure: Advances in Modeling, Impacts and Communication
9:15–10:00 AM	Poster Break			
10:00–11:15 AM	Network Seismology: Recent Developments, Challenges and Lessons Learned	Understanding and Modeling the Uncertainties in Earthquake Ground Motions	Opportunities and Challenges in Source Modeling for Seismic Hazard Analysis	Coseismic Ground Failure: Advances in Modeling, Impacts and Communication
11:30 AM–12:30 PM	Panel: Machine Learning			
12:30–2:00 PM	Lunch Break			
2:00–3:15 PM	Earthquake Early Warning Optimization and Efficacy	Understanding the Variability in Earthquake Stress Drop Measurements	Constraining Seismic Hazard in the Cascadia Subduction Zone	Deciphering Earthquake Clustering for the Better Understanding of Crustal Deformation Mechanisms
3:15–4:30 PM	Poster Break			
4:30–5:45 PM	Earthquake Early Warning Optimization and Efficacy		Constraining Seismic Hazard in the Cascadia Subduction Zone	Deciphering Earthquake Clustering for the Better Understanding of Crustal Deformation Mechanisms

Time	*208C*	*209A*	*209B*	*209C*
8:00–9:15 AM	Active Faults in the Caribbean and Central America		Crustal Imaging of High Seismic Hazard Regions	Earthquake Preparation Across Scales: Reconciling Geophysical Observations With Laboratory and Theory
9:15–10:00 AM	Poster Break			
10:00–11:15 AM	Active Faults in the Caribbean and Central America	From Earthquakes to Plate Boundaries: Insights Into Fault Behavior Spanning Seconds to Millennia	Crustal Imaging of High Seismic Hazard Regions	Earthquake Preparation Across Scales: Reconciling Geophysical Observations With Laboratory and Theory
11:30 AM–12:30 PM	Panel: Machine Learning			
12:30–2:00 PM	Lunch Break			
2:00–3:15 PM	Active Faults in the Caribbean and Central America	From Earthquakes to Plate Boundaries: Insights Into Fault Behavior Spanning Seconds to Millennia	Multi-scale Models for Seismic Hazard Analysis	Numerical Modeling in Seismology: Developments and Applications
3:15–4:30 PM	Poster Break			
4:30–5:45 PM	It's All About Relocation, Relocation, Relocation	From Earthquakes to Plate Boundaries: Insights Into Fault Behavior Spanning Seconds to Millennia	Ground Truthing Multidimensional Site Response Analyses at Borehole Array Sites	Numerical Modeling in Seismology: Developments and Applications

Poster Sessions

- Active Faults in the Caribbean and Central America
- Advances in Probabilistic Seismic Hazard Analysis and Applications
- Constraining Seismic Hazard in the Cascadia Subduction Zone
- Coseismic Ground Failure: Advances in Modeling, Impacts and Communication
- Crustal Deformation and Seismic Hazard in Western Canada, Cascadia and Alaska
- Crustal Imaging of High Seismic Hazard Regions
- Deciphering Earthquake Clustering for the Better Understanding of Crustal Deformation Mechanisms
- Earthquake Early Warning Optimization and Efficacy
- From Earthquakes to Plate Boundaries: Insights Into Fault Behavior Spanning Seconds to Millennia
- Ground Truthing Multidimensional Site Response Analyses at Borehole Array Sites
- It's All About Relocation, Relocation, Relocation
- Multi-scale Models for Seismic Hazard Analysis
- Network Seismology: Recent Developments, Challenges and Lessons Learned
- Numerical Modeling in Seismology: Developments and Applications
- Opportunities and Challenges in Source Modeling for Seismic Hazard Analysis
- Understanding and Modeling the Uncertainties in Earthquake Ground Motions
- Understanding the Variability in Earthquake Stress Drop Measurements