

Overview of Technical Program

ORAL SESSIONS

Tuesday, 18 April

<i>Time</i>	<i>Plaza D</i>	<i>Plaza E</i>	<i>Plaza F</i>	<i>Governor's Square 14</i>	<i>Governor's Square 15</i>	<i>Governor's Square 16</i>	<i>Governor's Square 12</i>
8:30–9:45 AM	Paleoseismology of Subduction Earthquake Cycles	Forecasting Aftershock Sequences in the Real World	Earthquake Source Parameters: Theory, Observations and Interpretations	Numerical Modeling of Earthquake Ground Motion, Rupture Dynamics and Seismic Wave Propagation	Varied Modes of Fault Slip and their Interactions— Slow Earthquakes, Creep to Mega Quakes	Computational Infrastructure and Data for Enhancing Earthquake Science	Novel Approaches to Understanding Active Volcanoes
10:45 AM–noon							
2:15–3:30 PM							
4:30–5:45 PM	The Subduction Zone Observatory	Advances in Earthquake Early Warning		Integrated and Geophysical Investigations for Site Characterization of Critical Facilities and Infrastructure	Earthquake Interaction and Triggering: From Near Field to Far Field, From Natural to Induced	Seismology Software Tools That Improve What We Do and How We Do It	Closing the Gap between Laboratory-based Damping Models and Observed Attenuation of Seismic Waves in the Field
5:45–6:30 PM	Pint and a Poster			Pint and a Poster			
6:30–7:30 PM	Ignite Talks Plenary			Ignite Talks Plenary			
7:30–9:00 PM	Student Reception and Early Career Reception			Student Reception and Early Career Reception			

Wednesday, 19 April

<i>Time</i>	<i>Plaza D</i>	<i>Plaza E</i>	<i>Plaza F</i>	<i>Governor's Square 14</i>	<i>Governor's Square 15</i>	<i>Governor's Square 16</i>	<i>Governor's Square 12</i>
8:30–9:45 AM	Fine Scale Structure of the Crust and Upper Mantle	Observations and Mechanisms of Anthropogenically Induced Seismicity	Source Discovery Using Differential Methods: Applications to Explosion Monitoring	Regional Variations in Seismological Characteristics: Implications for Seismic Hazard Analysis	From Field Site to Data Center: Network Innovations for Earthquake Early Warning	Earthquake Rapid Response	Overcoming Challenges in Seismic Risk Communication
10:45 AM–noon							
1:30–2:45 PM							
3:45–5:00 PM	Recent Advances in Earthquake Triggering and Aftershock Forecasting	Assessment and Management of Hazards from Seismicity Induced by Hydraulic Fracturing	The Mw7.8 Kaikoura Earthquake	Earthquake Impacts on the Natural and Built Environment	Recent Innovations in Geophone Array Seismology	SSA-ESC Joint Session on Advances in Geotechnical Borehole Arrays, Data and Analyses	Estimating Earthquake Hazard from Geodetic Data
5:00–5:45 PM	Pint and a Poster			Pint and a Poster			
5:45–6:45 PM	Joyner Lecture			Joyner Lecture			
6:45–8:00 PM	Reception			Reception			

Thursday, 20 April

<i>Time</i>	<i>Plaza D</i>	<i>Plaza E</i>	<i>Plaza F</i>	<i>Governor's Square 14</i>	<i>Governor's Square 15</i>	<i>Governor's Square 16</i>	<i>Governor's Square 12</i>
8:30–9:45 AM	Earthquake Complexities Revealed by Kinematic and Dynamic Modeling and Multiple Geophysical Data Sets	Understanding and Modeling Ground Motions and Seismic Hazard from Induced Earthquakes	The Future of Past Earthquakes	Verification and Validation of Earthquake Occurrence and Hazard Forecasts	Advances in Seismic Full Waveform Modeling, Inversion and Their Applications	Recent Advances in Very Broadband Seismology	Theoretical and Methodological Innovations for 3D/4D Seismic Imaging of Near-surface, Crustal, and Global Scales
10:45 AM–noon							Earthquakes and Tsunamis
1:30–2:45 PM	Characterization of the Stress Field and Focal Mechanisms for Earthquake Source Physics and Fault Mechanics	Recent Moderate Oklahoma Earthquakes: Widely Felt and Often Damaging	Earthquake Geology and Paleoseismic Studies of the Intermountain West: New Methods and Findings on Seismic Hazard Characterization of Low Slip Rate Faults	PSHA Source Modeling: Approaches, Uncertainty and Performance	Intraplate Earthquakes: Central and Eastern North America and Worldwide	Toppled and Rotated Objects in Recent, Historic, and Prehistoric Earthquakes	Emerging Opportunities in Planetary Seismology
4:00–5:15 PM		Induced Seismicity—The European Perspective					Seismotectonics

POSTER SESSIONS

- Tuesday 18 April
- Earthquake Source Parameters: Theory, Observations and Interpretations
 - Integrated and Geophysical Investigations for Site Characterization of Critical Facilities and Infrastructure
 - The Subduction Zone Observatory
 - Numerical Modeling of Earthquake Ground Motion, Rupture Dynamics and Seismic Wave Propagation
 - Forecasting Aftershock Sequences in the Real World
 - Paleoseismology of Subduction Earthquake Cycles
 - Computational Infrastructure and Data for Enhancing Earthquake Science
 - Novel Approaches to Understanding Active Volcanoes
 - Geoacoustics: Infrasonic and Beyond
 - Earthquake Interaction and Triggering: From Near Field to Far Field, From Natural to Induced
 - Advances in Earthquake Early Warning
 - Varied Modes of Fault Slip and their Interactions—Slow Earthquakes, Creep to Mega Quakes
 - Seismology Software Tools That Improve What We Do and How We Do It
 - To Tweet or Not To Tweet: Effective Use of Social Media for Citizen Science and Science Communication
 - Closing the Gap between Laboratory-based Damping Models and Observed Attenuation of Seismic Waves in the Field
 - Theoretical and Practical Advances in Ambient Noise and Coda Studies

- Wednesday 19 April
- Fine Scale Structure of the Crust and Upper Mantle
 - Source Discovery Using Differential Methods: Applications to Explosion Monitoring
 - Observations and Mechanisms of Anthropogenically Induced Seismicity
 - Assessment and Management of Hazards from Seismicity Induced by Hydraulic Fracturing
 - Recent Innovations in Geophone Array Seismology
 - Regional Variations in Seismological Characteristics: Implications for Seismic Hazard Analysis
 - Estimating Earthquake Hazard from Geodetic Data
 - The Mw7.8 Kaikoura Earthquake
 - Recent Advances in Earthquake Triggering and Aftershock Forecasting
 - Earthquake Impacts on the Natural and Built Environment
 - Earthquake Rapid Response

Poster Sessions (continued)

- Wednesday 19 April (continued)
- SSA-ESC Joint Session on Advances in Geotechnical Borehole Arrays, Data and Analyses
 - Overcoming Challenges in Seismic Risk Communication
 - From Field Site to Data Center: Network Innovations for Earthquake Early Warning
 - Scaling and Empirical Relationships of Moderate to Large Earthquakes: Re-scaling or Re-thinking?
 - Machine Learning and its Application to Earthquake and Explosion Signal Analysis
 - Ground Motions and GMPEs
- Thursday 20 April
- Recent Moderate Oklahoma Earthquakes: Widely Felt and Often Damaging
 - Induced Seismicity—The European Perspective
 - Understanding and Modeling Ground Motions and Seismic Hazard from Induced Earthquakes
 - The Future of Past Earthquakes
 - Earthquake Complexities Revealed by Kinematic and Dynamic Modeling and Multiple Geophysical Data Sets
 - Earthquakes and Tsunamis
 - Seismotectonics
 - PSHA Source Modeling: Approaches, Uncertainty and Performance
 - Recent Advances in Very Broadband Seismology
 - Advances in Seismic Full Waveform Modeling, Inversion and Their Applications
 - Characterization of the Stress Field and Focal Mechanisms for Earthquake Source Physics and Fault Mechanics
 - Intraplate Earthquakes: Central and Eastern North America and Worldwide
 - Theoretical and Methodological Innovations for 3D/4D Seismic Imaging of Near-surface, Crustal, and Global Scales
 - Toppled and Rotated Objects in Recent, Historic, and Prehistoric Earthquakes
 - Fault Mechanics and Rupture Characteristics from Surface Deformation
 - Importance of Long-Period Ground Motions in Seismic Design of Structures.
 - Earthquake Geology and Paleoseismic Studies of the Intermountain West: New Methods and Findings on Seismic Hazard Characterization of Low Slip Rate Faults
 - Verification and Validation of Earthquake Occurrence and Hazard Forecasts
 - Emerging Opportunities in Planetary Seismology