

Meeting at a Glance

14 - 18 May 2018

Monday – 14 May

7:30 a.m.–3:30 p.m.
Board of Directors Meeting
Orchid C

Noon–4 p.m.
Workshop: Getting Published –
Writing Papers, Working with
Editors, Responding to Reviews
Tuttle

Noon–2 p.m.
LACSC Board Meeting
Orchid AB

1–4 p.m.
Workshop: Probabilistic Seismic
Hazards Assessment: Subduction
Zone Sources and Borders
Brickell

3–7:30 p.m.
Registration
Riverfront Central

5–7:30 p.m.
Opening Ceremony &
Welcome Reception
Riverfront North and Central

7:30–9 p.m.
Workshop: Social Media:
Not Just Kid Stuff!
Tuttle

Tuesday – 15 May

7:30–8:30 a.m.
Morning Coffee
Riverfront Central

7:30 a.m.–5 p.m.
Registration
Riverfront Central

8:30 a.m.–5:30 p.m.
Technical Sessions

9:45–10:45 a.m.
Posters and Break
Riverfront Central

Noon–2 p.m.
SSA Annual Luncheon and Awards
Ceremony
Riverfront North

3:30–4:15 p.m.
Posters and Break
Riverfront Central

5:30–6 p.m.
Pint and Poster
Riverfront South

6–7 p.m.
Lightning Talks
Riverfront North

6 p.m.
Special Interest Group: Articulating
the Mission of State and Regional
Earthquake Centers
Tuttle

7–9 p.m.
Early Career and Student Reception
Upper Promenade

Wednesday – 16 May

7–8:15 a.m.
Student and Early-Career
Mentoring Breakfast
Riverfront North

7:30–8:30 a.m.
Morning Coffee
Riverfront Central

7:30 a.m.–5 p.m.
Registration
Riverfront Central

8:30 a.m.–5:30 p.m.
Technical Sessions

9:45–10:45 a.m.
Posters and Break
Riverfront Central

9:50–10:30 a.m.
Government Relations Update
Hibiscus B

Noon–2 p.m.
Public Policy Luncheon
Riverfront North

3:30–4:15 p.m.
Pint and Poster
Riverfront South

5:30–6:30 p.m.
Joyner Lecture
Riverfront North

6:30–8 p.m.
LACSC-SSA Reception
Upper & Lower Promenade

8–9 p.m.
LACSC Public General Assembly
Brickell

8–9:30 p.m.
Women in Seismology Reception
Japengo

Thursday – 17 May

7:30–8:30 a.m.
Morning Coffee
Riverfront Central

7:30 a.m.–5 p.m.
Registration
Riverfront Central

8:30 a.m.–5 p.m.
Technical Sessions

9:45–10:45 a.m.
Posters and Break
Riverfront Central

Noon–1:15 p.m.
Luncheon
Riverfront North

2:45–3:45 p.m.
Pint and Poster
Riverfront South

5:30 p.m.
Evening Celebration Cruise
Riverwalk

Friday – 18 May

8:30 a.m.–12:30 p.m.
Workshop: Aftershock Forecasting
Post-Meeting Workshop
Monroe

8:30 a.m.–5 p.m.
Workshop: ShakeMap Related
Research, Development, Operations
and Applications
Tuttle

Tech Sessions

Tuesday 15 May 2018

Time	Brickell	Flagler	Hibiscus A	Hibiscus B	Jasmine	Monroe	Orchid AB	Tuttle
8:30 AM - 9:45 AM	Numerical Modeling of Earthquake Ground Motion, Rupture Dynamics and Seismic Wave Propagation	Interaction Between Observations and Models in Seismo-volcanic Studies	Tsunami Modeling and Hazard Assessment	Essentials of Seismic Risk Estimates	Regional Seismic Network Approaches and Stakeholder Collaborations	Advances in Seismic Site Response Studies Given Limitations in Understanding of Site Conditions	Onshore Quaternary and Contemporary Tectonics: Implications for Seismic Hazards	3D/4D Seismic Imaging and Their Interpretation for Seismic Hazard Assessment
10:45 AM - 12:00 PM	Numerical Modeling of Earthquake Ground Motion, Rupture Dynamics and Seismic Wave Propagation	Interaction Between Observations and Models in Seismo-volcanic Studies	Tsunami Modeling and Hazard Assessment	Essentials of Seismic Risk Estimates	Regional Seismic Network Approaches and Stakeholder Collaborations	Advances in Seismic Site Response Studies Given Limitations in Understanding of Site Conditions	The Next Big Earthquake: The Usual and the Unusual Suspects	3D/4D Seismic Imaging and Their Interpretation for Seismic Hazard Assessment
2:15 PM - 3:30 PM	Fault to Seismic Hazard Assessment (Fault2SHA) in Latin (Central and South) Americas	Advances in the Theory, Modeling, and Observation of Anelastic Seismic Wave Propagation - Recent Anelastic Models of the Earth	Urban Liquefaction and Lateral Spread Investigations and Mapping	Environmental Seismology: Glaciers, Rivers, Landslides and Beyond	Regional Seismic Network Approaches and Stakeholder Collaborations	Advances in Explosion Seismo-Acoustic Research	Science Gateways and Computational Tools for Improving Earthquake Research	Megathrust Earthquakes: Recurrence, Rupture Modes and Tsunamis
4:15 PM - 5:30 PM	Fault to Seismic Hazard Assessment (Fault2SHA) in Latin (Central and South) Americas	Advances in the Theory, Modeling, and Observation of Anelastic Seismic Wave Propagation - Recent Anelastic Models of the Earth	Ground Motion and Earthquake Engineering	Environmental Seismology: Glaciers, Rivers, Landslides and Beyond	Regional Seismic Network Approaches and Stakeholder Collaborations	Advances in Explosion Seismo-Acoustic Research		Megathrust Earthquakes: Recurrence, Rupture Modes and Tsunamis

Tech Sessions

Wednesday 16 May 2018

Time	Brickell	Flagler	Hibiscus A	Hibiscus B	Jasmine	Monroe	Orchid AB	Tuttle
8:30 AM - 9:45 AM	Exploring Rupture Dynamics and Seismic Wave Propagation along Complex Fault Systems	Structure and Dynamics of Earth's Mantle	U.S. National Seismic Hazard Model Updates: 2018, 2020 and Beyond		Early Warning for Large Earthquakes and Tsunamis: Challenges, Case Studies and Innovations	Recent Advances in Dense Array Seismology	Seismic Event Screening	Megathrust Earthquakes: Recurrence, Rupture Modes and Tsunamis
10:45 AM - 12:00 PM	Exploring Rupture Dynamics and Seismic Wave Propagation along Complex Fault Systems	Development and Validation of Statistical Models of Small-scale Heterogeneities	U.S. National Seismic Hazard Model Updates: 2018, 2020 and Beyond	Ocean Bottom Seismology - Hurdles, Strategies and Outcomes	Early Warning for Large Earthquakes and Tsunamis: Challenges, Case Studies and Innovations	Recent Advances in Dense Array Seismology	Seismic Event Screening	Megathrust Earthquakes: Recurrence, Rupture Modes and Tsunamis
2:15 PM - 3:30 PM	Observations and the Physics Behind Complex Earthquakes	Observed Characteristics of Induced Seismicity: From Laboratory to Field Scale	Testing PSHA Input Data, Source Models and Hazard Estimates	Microzonation Studies - Site Effects	Real-time GNSS Network Operations and Advances towards Early Warning Systems	Advances on the Parameterization of Seismic Attenuation: Current Challenges and Opportunities	Present-day Plate Boundary Deformation and Seismic Hazard in the Caribbean	The Future of Telemetered Seismic Arrays - Where the Operation of the Network Ends and the Science Begins
4:15 PM - 5:30 PM	New Frontiers in Seismic and Acoustic Data Analysis	Observed Characteristics of Induced Seismicity: From Laboratory to Field Scale	Seismic Structure of Convergent Plate Margins	Microzonation Studies - Site Effects	Real-time GNSS Network Operations and Advances towards Early Warning Systems	Advances on the Parameterization of Seismic Attenuation: Current Challenges and Opportunities	Seismic Hazards and Historic Earthquakes in Puerto Rico and the Northern Caribbean Region	The Future of Telemetered Seismic Arrays - Where the Operation of the Network Ends and the Science Begins

Tech Sessions

Thursday 17 May 2018

Time	Brickell	Flagler	Hibiscus A	Hibiscus B	Jasmine	Monroe	Orchid AB	Tuttle
8:30 AM - 9:45 AM	Tsunami Outreach, Education and Warning Dissemination: Cross-disciplinary Opportunities for Increasing Tsunami Resiliency	Observed Characteristics of Induced Seismicity: From Laboratory to Field Scale	USGS Seismic Hazard User-Needs	Increasing Testability - Expanding Possibilities and Future Developments of the Collaboratory for the Study of Earthquake Predictability	Earthquake Source Parameters: Theory, Observations and Interpretations	Retrieval of Fine Scale Information Using Seismic Noise		Structure and Geodynamics of the Caribbean Plate Boundaries
10:45 AM - 12:00 PM	The Recent Earthquakes that Shocked Mexico in September 2017	Observed Characteristics of Induced Seismicity: From Laboratory to Field Scale	Applications of Machine Learning and Data Science in Seismology	Uncertainty in Ground Motion Estimation; Seismological and Engineering Perspectives	Earthquake Source Parameters: Theory, Observations and Interpretations	Emergency Management, Resilience and Preparedness		Plate Boundary Segmentation and Coupled-to-Creeping Plate and Block Boundary Faults
1:30 PM - 2:45 PM	The Recent Earthquakes that Shocked Mexico in September 2017	Seismic Studies of Earth's Crust and Lithosphere	Applications of Machine Learning and Data Science in Seismology	Uncertainty in Ground Motion Estimation; Seismological and Engineering Perspectives	Earthquake Source Parameters: Theory, Observations and Interpretations	Adaptation of New Technologies and Methods to Drive New Discoveries in Seismology and Geodesy		Plate Boundary Segmentation and Coupled-to-Creeping Plate and Block Boundary Faults
3:45 PM - 5:00 PM	The 8th September Mw8.2 Tehuantepec and 19th September Mw7.1 Puebla-Morelos, Mexico Earthquakes: Reconnaissance Findings and Impact on Urban Areas in South-central Mexico	ShakeMap-Related Research, Development, Operations and Applications	Forecasting Aftershock Sequences in the Real World		Earthquake Source Parameters: Theory, Observations and Interpretations	Challenges and Chances for the Widespread Implementation of Earthquake Early Warning (EEW)		Plate Boundary Segmentation and Coupled-to-Creeping Plate and Block Boundary Faults

Poster Sessions

15 - 17 May 2018

Tuesday 15 May

3D/4D Seismic Imaging and Their Interpretation for Seismic Hazard Assessment

Advances in Explosion Seismo-Acoustic Research

Advances in Seismic Site Response Studies Given Limitations in Understanding of Site Conditions

Environmental Seismology: Glaciers, Rivers, Landslides and Beyond

Fault to Seismic Hazard Assessment (Fault2SHA) in Latin (Central and South) Americas

Ground Motion and Earthquake Engineering

Interaction Between Observations and Models in Seismo-volcanic Studies

Numerical Modeling of Earthquake Ground Motion, Rupture Dynamics and Seismic Wave Propagation

Onshore Quaternary and Contemporary Tectonics: Implications for Seismic Hazards

Regional Seismic Network Approaches and Stakeholder Collaborations

Science Gateways and Computational Tools for Improving Earthquake Research

The Next Big Earthquake: The Usual and the Unusual Suspects

Tsunami Modeling and Hazard Assessment

Wednesday 16 May

Advances on the Parameterization of Seismic Attenuation: Current Challenges and Opportunities

Development and Validation of Statistical Models of Small-scale Heterogeneities

Early Warning for Large Earthquakes and Tsunamis: Challenges, Case Studies and Innovations

Exploring Rupture Dynamics and Seismic Wave Propagation along Complex Fault Systems

Megathrust Earthquakes: Recurrence, Rupture Modes and Tsunamis

Microzonation Studies - Site Effects

New Frontiers in Seismic and Acoustic Data Analysis

Observations and the Physics Behind Complex Earthquakes

Ocean Bottom Seismology - Hurdles, Strategies and Outcomes

Present-day Plate Boundary Deformation and Seismic Hazard in the Caribbean

Real-Time GNSS Network Operations

Recent Advances in Dense Array Seismology

Seismic Event Screening

Seismic Hazards and Historic Earthquakes in Puerto Rico and the Northern Caribbean Region

Seismic Structure of Convergent Plate Margins

Structure and Dynamics of Earth's Mantle

Testing PSHA Input Data, Source Models and Hazard Estimates

The Future of Telemetered Seismic Arrays - Where the Operation of the Network Ends and the Science Begins

U.S. National Seismic Hazard Model Updates: 2018, 2020 and Beyond

Thursday 17 May

Adaptation of New Technologies and Methods to Drive New Discoveries in Seismology and Geodesy

Applications of Machine Learning and Data Science in Seismology

Challenges and Chances for the Widespread Implementation of Earthquake Early Warning (EEW)

Earthquake Source Parameters: Theory, Observations and Interpretations

Emergency Management, Resilience and Preparedness

Forecasting Aftershock Sequences in the Real World

Increasing Testability - Expanding Possibilities and Future Developments of the Collaboratory for the Study of Earthquake Predictability

Observed Characteristics of Induced Seismicity: From Laboratory to Field Scale

Plate Boundary Segmentation and Coupled-to-Creeping Plate and Block Boundary Faults

Retrieval of Fine Scale Information Using Seismic Noise

Seismic Studies of Earth's Crust and Lithosphere

ShakeMap-Related Research, Development, Operations and Applications

Structure and Geodynamics of the Caribbean Plate Boundaries

The 8th September Mw8.2 Tehuantepec and 19th September Mw7.1 Puebla-Morelos, Mexico Earthquakes: Reconnaissance Findings and Impact on Urban Areas in South-central Mexico

Uncertainty in Ground Motion Estimation; Seismological and Engineering Perspectives