



COSMOS
CONSORTIUM OF ORGANIZATIONS FOR
STRONG MOTION OBSERVATION SYSTEMS

2021 COSMOS Annual Meeting and Technical Session Program

*Structural Health Monitoring, Ground Motion Simulations, and Updates to
ASCE/SEI 7-22 and AASHTO*

November 18 – 1 PM to 4 PM PST
November 19, 2021 – 10 AM to 1:30 PM PST
Meeting Link To Be Provided

Agenda – Day 1

1:00–1:10	Welcome and Overview of Day Technical Session	Annie Kammerer
Day 1 – COSMOS/CGS/USGS Joint Activities and New Datasets		
1:10–1:15	Opening Remarks	Annie Kammerer
1:15–1:20	COSMOS Noninvasive Site Characterization Guidelines: Project Update	Aysegül Askan
1:20–1:25	Update from the NGA-Subduction Program	Silvia Mazzoni
1:25–2:15	Panel Discussion	All
2:15–2:30	BREAK	
Day 1 – Structural Health Monitoring		
2:30–2:35	Opening Remarks	Rubén Boroscchek
2:35–2:40	COSMOS SSHM Guidelines	Rubén Boroscchek
2:40–2:45	A Simulation-Based Appraisal of Sensor Density and Quality Requirements for Rapid Regional Post-Event Damage Assessment of Large Building Inventories	Ertugrul Taciroglu
2:45–2:50	Bridge Rapid Assessment Center for Extreme Events	Khalid Mosalam
2:50–2:55	The Structural Health Monitoring System in Japan as a Rapid Inspection	Koichi Kusunoki
2:55–3:00	Building Occupancy Shake Impact (BOSI) Scale	Derek Skolnik
3:00–3:05	SSHM of Civil Engineering Structures: Lessons learned and future directions in practical uses of SSHM	Carlos Ventura
3:05–3:50	Panel Discussion	Rubén Boroscchek
3:50–4:00	Closing remarks	Rubén Boroscchek
4:00 PM – Adjourn Day 1		

Agenda – Day 2

Day 2 – Ground Motion Simulations and their Utilization in Engineering Applications		
10:00–10:10	Opening remarks – vision and mission of the COSMOS Simulation Working Group	Aysegül Askan
10:10–10:20	Current State and Future directions of Ground-Motion Simulations	Brad Aagaard
10:20–10:30	State-of-the-Art Research on Site Characterization Approaches and Uncertainties from the Perspective of Ground Motion Simulations	Alan Yong
10:30–10:40	Validation of Simulated Ground Motions: Past, Present, and Future Direction	Sanaz Rezaeian
10:40–10:50	Utilization of Simulations in Seismic Hazard Applications	Morgan Moschetti
10:50–11:00	Ground Motion Simulations for Engineering Applications	C.B. Crouse
11:00–11:30	Open Discussion	Session speakers and Jack Baker, Carlo Cauzzi, Arthur Rodgers
11:30–11:45	<i>BREAK</i>	
Day 2 – Relevant Ground Motion Updates in Building Codes		
11:45–11:55	ASCE 7-22 Ground Motion Updates: Effective Site-Coefficients	Sanaz Rezaeian
11:55–12:05	Risk-Targeted Design Spectra Proposed for the 2023 AASHTO Bridge Specifications	Nico Luco
12:05–12:15	PGA Based on Probabilistic Liquefaction Analysis	Steven Kramer
Day 2 – Concluding Remarks		
12:15–12:30	Concluding Remarks	
Day 2 – Young Professionals Networking		
12:30–1:00	Young Professionals Event	Annie Kammerer/ Debra Murphy
Day 2 – COSMOS Business Meeting		
1:00–1:30	COSMOS Business Meeting	Nick Novoa
<i>1:30 PM – Adjourn Day 2</i>		