

# COSMOS



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Consulting Structural Engineers

## 2017 COSMOS Annual Meeting and Technical Session Program

### *The Evolving Process of Determining Site-Specific Design Ground Motions in Areas of High Seismicity*

November 17, 2017, 7:30 am – 6:00 pm  
Crowne Plaza Hotel San Francisco Airport  
Burlingame, California

### Agenda

07:30-08:30 AM	Registration and Hot Buffet Breakfast	
08:30-08:40 AM	Welcome and Overview of Day	Bob Bachman/Annie Kammerer

#### **COSMOS/CGS/USGS Joint Activities and New Datasets**

08:40-09:20 AM	COSMOS Noninvasive Site Characterization Guidelines: Project Update	Alan Yong
09:20-09:35 AM	Updates on COSMOS Converter Tool and CESMD new development	Hamid Haddadi
09:35-9:55AM	New Datasets: PEER NGA-Sub Subset: ground motions from subduction-zone earthquakes	Silvia Mazzoni
<b>9:55-10:15 AM</b>	<b>Break</b>	

#### **Determining Ground Motions in Subduction Zones**

10:15-10:45 AM	The Pacific Northwest M9 Project: Simulating ground motions for great earthquakes on the cascadia subduction zone	Art Frankel
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10:45-11:15 AM	The move to non-ergodic hazard and the business case for seismic instrumentation	Norm Abrahamson
11:15-11:45 AM	Engineering use of duration from crustal and subduction events	Jon Heintz
<b>11:45-12:25 PM</b>	<b>Buffet Lunch</b>	
<b>12:25-1:00 PM</b>	<b>COSMOS Business Meeting</b>	

### Site-Specific Evaluations

1:00-1:35 PM	Maximum magnitudes for deterministic seismic hazard analysis: Toward adapting old rules to new models such as UCERF3	Nick Gregor
1:35 – 2:05 PM	Impacts of non-ergodic ground motion models on hazard in CA: using local ground motion recordings to adapt existing GMPEs for site-specific calculation of ground motion for design	Nico Kuehn
2:05-2:35 AM	Long period motions: web tool from the SCEC Utilization of Ground Motion Simulations (UGMS) committee to obtain site-specific $MCE_R$ response spectra in southern CA for periods up to 10 sec	C.B. Crouse
<b>2:35 – 2:50 PM</b>	<b>Break</b>	

### New Developments in Seismic Design Maps

2:50-3:10 PM	New hazard and design web tools from USGS and Others	Nico Luco
3:10-3:55 PM	Project 17 progress: Update on major issues	Charlie Kircher/Nico Luco
<b>3:55 - 4:00 PM</b>	<b>Brief Break</b>	
<b>4:00-4:50 PM</b>	<b>Panel Discussion</b>	
<b>4:50-5:00 PM</b>	<b>Concluding Remarks</b>	
<b>5:00-6:00 PM</b>	<b>Adjourn and Partially Hosted Cocktail Party (drink tickets)</b>	