

# COSMOS



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## 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
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

**11:45-12:25 PM Buffet Lunch**

**12:25-1:00 PM COSMOS Business Meeting**

### 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

**2:35 – 2:50 PM Break**

### 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

**3:55 - 4:00 PM Brief Break**

**4:00-4:50 PM Panel Discussion**

**4:50-5:00 PM Concluding Remarks**

**5:00-6:00 PM Adjourn and Partially Hosted Cocktail Party (drink tickets)**