

Tentative 2010 COSMOS Technical Session Program

Issues Associated with Applying Conditional Mean Spectra to the Selection and Scaling of Design Ground Motions

November 19, 2009

8:30 AM – 6:00 PM

Clarion Hotel San Francisco Airport
Millbrae, California

7:30 AM	Registration and Continental Breakfast	
8:30 AM	Welcome and Overview of Day	Bob Bachman
8:40 AM	Conclusions from Previous COSMOS Technical Sessions	Norm Abrahamson
Review of Condition Mean Spectra (CMS) and How To Use It		
8:50 AM	Review of CMS	Jack Baker
9:20 AM	Selection T_0 , Decomposing a Uniform Hazard Spectra (UHS) into Multiple CMS and Comparison to the NRC Approach	Norm Abrahamson
9:40 AM	Example: Mississippi River Bridge using Multiple CMS	Youssef Hashash
10:00 AM	BREAK	
Practical Issues for Computing CMS		
10:20 AM	Refinements to the Conditional Mean Spectra: Incorporating Multiple Causal Earthquakes and Multiple Ground Motion Prediction Models	Ting Lin (graduate student of Jack Baker)
10:50 AM	Computing CMS using Multiple Ground Motion Models	Nick Gregor
11:10 AM	Assessment and Refinement of CMS	Anil Chopra/Erol Kalkan
11:30 AM	Discussion on Computing CMS in Practice	All
11:45 AM	LUNCH	
12:15 PM	COSMOS Annual Business Meeting	Bill Iwan
1:15 PM	Short Break	
Ground Motions from Chile and New Zealand		
1:30 PM	2010 Chile Earthquake Ground Motions	Mehmet Celebi (USGS)
1:50 PM	2010 New Zealand Earthquake Ground Motions and Comparison with Current Ground Motion Models	Dave Boore (USGS)
2:10 PM	Discussion	All
Conditional Spectra (CS) for Risk Analysis		
2:20 PM	Computing CS	Linda Al Atik
2:40 PM	Seismic Risk Calculation using CS	Jack Baker
3:00 PM	Short Break	
Examples of Use of CMS and CS on Projects		
3:10 PM	California Dam, Vancouver Tunnel using Multiple CMS	Nick Gregor
3:30 PM	Hospital using CMS	Norm Abrahamson
Should CMS and/or CS Be Used for Design? What Is Allowed or Should Be Allowed in the IBC?		
3:45	Issues with Using CMS for Design	Jack Moehle
4:00 PM	Panel Discussion	All
5:00 PM	Adjourn for Cocktail Hour (No Host)	All