

ATC/USGS SEISMIC HAZARD USER-NEEDS WORKSHOP
William Rambo Auditorium, U.S. Geological Survey, Menlo Park, California
September 21-22, 2015

WORKSHOP AGENDA
(All times are Pacific)

MONDAY, SEPTEMBER 21, 2015

8:30 a.m. Registration and coffee

9:00 a.m. *Welcome and Introductory Remarks*
Anna H. Olsen, Applied Technology Council, Redwood City, California

Session 1: Seismic Hazard Products and Their Intended Users

Moderator: Nicolas Luco, U.S. Geological Survey, Golden, Colorado

9:15 a.m. *Uses of the National Seismic Hazard Model (NSHM)*
Nicolas Luco, U.S. Geological Survey, Golden, Colorado

9:30 a.m. *2014 National Seismic Hazard Model: Changes With Respect to the 2008 NSHM*
Mark D. Petersen, U.S. Geological Survey, Golden, Colorado
(includes 15 minute question period)

10:30 a.m. *Break*

10:45 a.m. *Products and Tools from the National Seismic Hazard Model (NSHM)*
Peter M. Powers, U.S. Geological Survey, Golden, Colorado
(includes 15 minute question period)

12:00 p.m. Moderator Summary

12:05 p.m. Lunch

Session 2: Use of Seismic Hazard at Individual Sites

Moderator: C.B. Crouse, AECOM, Seattle, Washington

12:45 p.m. Moderator Introduction

12:50 p.m. *New Building Design Perspective*
John D. Hooper, Magnusson Klemencic Associates, Seattle, Washington

1:05 p.m. *Use Of and Issues With USGS Seismic Hazard Parameters in ASCE 41*
Robert G. Pekelnicky, Degenkolb Engineers, San Francisco, California

1:20 p.m. *Utilization of Seismic Hazard Information from USGS National Seismic Hazard Mapping Project by DSA**
Ronald W. LaPlante, California Division of the State Architect, San Diego, California

1:25 p.m. *Using ASCE 7-10 Performance Targets to Manage Seismic Risk in the Legal Arena**
Mark N. White, Law Offices of Mark N. White, Berkeley, California

1:30 p.m. *Use of USGS Seismic Design Maps to Identify Earthquake Siting Risk for Utility-Scale Wind Turbines**
Trevor R. Taylor, Vestas American Wind Technology, Portland, Oregon

- 1:35 p.m. *Interactive Seismic Mapping to Convey Risk to the Public**
Brittany Moffett and Anders Carlson, University of Southern California, Los Angeles, California
- 1:40 p.m. *Needs/Issues for Site-Specific Geotechnical Applications of the NSHMP Maps and Tools*
John A. Egan, SAGE Engineers, Oakland, California
- 1:55 p.m. *The Travails of the Average Geotechnical Engineer Using the National Seismic Hazard Maps*
Marshall Lew, AMEC Foster Wheeler, Los Angeles, California
- 2:10 p.m. *Break*
- 2:25 p.m. *Use of NSHMP Products for Site-Specific Hazard Analyses for Critical Structures*
Norman Abrahamson, Pacific Gas & Electric Company, San Francisco, California
- 2:40 p.m. *Use of USGS NSHMP products in USACE Dam and Levee Safety Programs and USACE Civil Works Projects*
Keith Kelson, U.S. Army Corps of Engineers, Sacramento, California
- 2:55 p.m. *Seismic Hazard for Commercial Nuclear Power Plants – Current Practice and Its Relationship to the NSHMP*
Robert Youngs, AMEC Foster Wheeler, Oakland, California
- 3:15 p.m. Open Discussion
- 4:10 p.m. Moderator Summary
- 4:15 p.m. Adjourn

* Informal talk

TUESDAY, SEPTEMBER 22, 2015

- 8:30 a.m. Registration and coffee
- 9:00 a.m. *Second-Day Welcome and Introductory Remarks*
Anna H. Olsen, Applied Technology Council, Redwood City, California

Session 3: Use of Seismic Hazard at Distributed Sites

Moderator: Chris D. Poland, Consulting Engineer, Canyon Lake, California

- 9:10 a.m. Moderator Introduction
- 9:15 a.m. *Caltrans Reliance on USGS National Seismic Hazard Mapping Program*
Tom Shantz, California Department of Transportation, Sacramento, California
- 9:35 a.m. *Use of Seismic Hazard Information in Water and Wastewater System Analysis*
Don Ballantyne, Ballantyne Consulting, Tacoma, Washington
- 9:55 a.m. *Seismic Hazard Analysis at the California Department of Water Resources*
Don F. Hoirup, Jr., California Department of Water Resources, West Sacramento, California
- 10:15 a.m. *Using Seismic Hazard Maps for PG&E Gas and Electric Systems*
Kent S. Ferre, Pacific Gas & Electric Company, San Francisco, California
- 10:30 a.m. *Break*

- 10:45 a.m. *Use of USGS Seismic Hazard Data in the California High-Speed Rail Project*
Kevin Thompson and Kenneth W. Campbell, California High Speed Rail Authority,
Sacramento, California
- 11:05 a.m. Chris Salkeld, AT&T Technology Operations, San Ramon, California*
- 11:10 a.m. Open Discussion
- 12:10 p.m. Moderator Summary
- 12:15 p.m. Lunch

Session 4: Additional Uses of Seismic Hazard Information

Moderator: Janiele Maffei, California Earthquake Authority, Sacramento, California

- 1:00 p.m. Moderator Introduction
- 1:05 p.m. *The Science of Catastrophe Modeling: A Journey from Hazard to Risk*
Maiclaire Bolton, CoreLogic, Oakland, California
- 1:25 p.m. *USGS and AIR Worldwide: Leveraging Seismic Hazard as An Ingredient in Risk Modeling*
C. Marc Ramirez, AIR Worldwide, San Francisco, California
- 1:35 p.m. *Use of USGS Seismic Hazard Model in Catastrophe Modeling: RMS Perspective*
Nilesh Shome, RMS, Newark, California
- 1:45 p.m. *Current and Future Use of USGS Seismic Hazard Products at FM Global*
Harold Magistrale, FM Global, Norwood, Massachusetts
- 1:50 p.m. *Financial Sector*
Charlotte Acton, RMS, London, England
- 2:10 p.m. *Applying Seismic Hazard Information in Local and Regional Land-Use Planning*
Laurie A. Johnson, Laurie Johnson Consulting | Research, San Rafael, California
- 2:30 p.m. *Break*
- 2:45 p.m. *The USGS National Seismic Hazard Mapping Project: Issues and Improvements**
Zhenming Wang, Kentucky Geological Survey, Lexington, Kentucky
- 2:50 p.m. *Utilization of Seismic Hazard Information from USGS National Seismic Hazard Mapping Project by CGS in Project Review**
Jennifer Thornburg, California Geological Survey, Sacramento, California
- 2:55 p.m. *Utilization of Seismic Hazard Information from USGS National Seismic Hazard Mapping Project by CGS in Loss Estimation, Hazard Zoning, and Scenario Development**
Rui Chen, California Geological Survey, Sacramento, California
- 3:00 p.m. Open Discussion
- 3:55 p.m. Moderator Summary
- 4:00 p.m. *Workshop Summary and Concluding Remarks*
Anna H. Olsen, Applied Technology Council, Redwood City, California
- 4:15 p.m. Adjourn

* Informal talk