



**2018 UTAH EARTHQUAKE WORKING GROUP MEETINGS
UTAH GROUND SHAKING WORKING GROUP
AGENDA**

Tuesday, February 13, 2018

**Utah Department of Natural Resources Building, Auditorium
1594 West North Temple, Salt Lake City, Utah**

- 8:00 Refreshments
- 8:00 Introduction, Overview of Meeting, and Review of Previous Year's Activities: Ivan Wong, Lettis Consultants International
- 8:10 Site Characterization Technical Presentations
- 8:10 – Using Nodal Seismic Instrumentation and a Bayesian Application of SPAC to get V_{S30} : Hao Zhang
 - 8:30 – Updated Seismic Imaging of the Salt Lake City Area from 2015 and 2017 Campaigns: Lee Liberty, Boise State University
 - 9:00 – Wasatch Front Community Velocity Model: Greg McDonald, Utah Geological Survey
- 9:20 Ground Motion Modeling Technical Presentations
- 9:20 – Rupture Direction, Hanging Wall, Basin, and Distance Effects on Ground Motions from Large Normal-Faulting Earthquakes: Kim Olsen, San Diego State University
 - 9:50 – 3D Ground Motion Simulations of the Salt Lake City Segment of the Wasatch Fault Zone–Scenarios and Applications to Seismic Hazard: Morgan Moschetti, U.S. Geological Survey
- 10:15 Break (15 minutes)
- 10:30 Ground Motion Modeling Technical Presentations (continued)
- 10:30 – 3D Dynamic Rupture Simulations Along the Wasatch Fault: Kyle Withers, U.S. Geological Survey
- 10:50 National Seismic Hazard Maps and Code Design Technical Presentations
- 10:50 – 2018 Update of the U.S. National Seismic Hazard Model for Utah–Incorporating Basin Effects: Mark Peterson, U.S. Geological Survey
 - 11:20 – Project 17: Improving Ground Motion Maps for Building Codes: Nico Luco, U.S. Geological Survey
- 12:00 Lunch (1 hour, register at <http://2018uewg.eventbrite.com> for on-site lunch)

1:00 Seismic Design Ground Motions Technical Presentations

1:00 – How Structural Engineers use Ground Motions for Building Design: Eric Hoffman, Ensign Engineering and Land Surveying

1:20 – Comparing IBC 2015 Code Design Acceleration Values to a Deterministic Wasatch Fault Rupture: Brent Maxfield, The Church of Jesus Christ of Latter-Day Saints

1:40 – Site-Specific Seismic Design Ground Motions for Performance Based Engineering– Case Study: Ivan Wong, Lettis Consultants International

2:00 – Time-Dependent Seismic Hazard Along the Wasatch Front: Patricia Thomas, Lettis Consultants International

2:20 Break (15 minutes)

2:35 Round Table Discussion

4:30 Adjourn

Working Group Members

Ivan Wong	Lettis Consultants International (GSWG Chair)
Greg McDonald	Utah Geological Survey (GSWG UGS Liaison)
Walter Arabasz	University of Utah Seismograph Stations
Ralph Archuleta	University of California, Santa Barbara
Jim Bay	Utah State University
Jacobo Bielak	Carnegie Mellon University
Rich Briggs	U.S. Geological Survey
Keith Koper	University of Utah Seismograph Stations
Qiming Liu	University of California, Santa Barbara
Brent Maxfield	The Church of Jesus Christ of Latter-Day Saints
Morgan Moschetti	U.S. Geological Survey
Kim Olsen	San Diego State University
Jim Pechmann	University of Utah Seismograph Stations
Kris Pankow	University of Utah Seismograph Stations
Mark Peterson	U.S. Geological Survey
Daniel Roten	San Diego State University
Bob Smith	University of Utah Geology & Geophysics
Bill Stephenson	U.S. Geological Survey