

# **AGENDA**

## **UTAH GROUND SHAKING WORKING GROUP TOWARD A “COMMUNITY VELOCITY MODEL”**

**Facilitator: Ivan Wong**

Friday, February 27, 2004

Utah Department of Natural Resources building, room 1050  
1594 W. North Temple, Salt Lake City

- 8:30 Introduction (Ivan Wong/Gary Christenson)
- 8:45 Shallow shear-wave-velocity studies
- Discuss results of 2003 USU SASW and proposed (not funded) 2004 work
  - View UGS shear-wave-velocity database to assess data spacing and need for additional data
  - Discuss need for additional borehole/CPT data to calibrate SASW data
  - Discuss issues related to preparing a NEHRP site-class map
  - Needs for making ground-shaking maps
  - Map scales?
  - Make revisions to Element 1 of 2003 plan
- 10:00 Break
- 10:15 Deep-basin structure
- View UGS deep-basin structure database to define data gaps
  - Discuss USGS 2003 and proposed 2004 deep seismic imaging
  - Evaluate need to improve Arnow map of “depth of Quaternary fill,” or depth to R1
  - Discuss deep SASW work; 2003 Stokoe proposal
  - Availability of gravity data for improving Radkins depth to bedrock (R2) map
  - Needs for making ground-shaking maps
  - Make revisions to Element 1 of 2003 plan
- 12:00 noon Lunch
- 1:00 Attenuation relations and seismological/geotechnical parameters
- Discuss Pechmann/Pankow project using ANSS data
  - Discuss USU laboratory soil testing NEHRP project.
  - Status/applicability of PEER Next Generation of Attenuation Models project
  - Kappa, hanging-wall effects, directivity, other
  - Make revisions to Element 2 of 2003 plan

- 2:00 Cooperative development of a “community velocity model”
- Define ultimate products, uses, and needs
  - Is SCEC model appropriate for Wasatch Front? Can we define Reference Surfaces (age horizons) as was done in SCEC model for LA area from petroleum sonic logs?
  - What are alternatives to SCEC model? What did USGS use in Memphis?
  - Make revisions to Element 3 of 2003 plan

3:00 Break

3:15 Continue “community velocity model” discussion

4:00 Identify and discuss possible 2005 NEHRP proposals and partnerships

5:00 Adjourn