EARTHQUAKE HAZARDS IN UTAH: IMPROVING OUR UNDERSTANDING

2004 EARTHQUAKE CONFERENCE

Thursday, February 26, 2004
Utah Department of Resources Building, Room 1040-1060
1594 W. North Temple, Salt Lake City

Moderator: Gary E. Christenson

8:30 a.m. *Welcome; Utah earthquake working groups*
Gary Christenson, Utah Geological Survey

8:45 *USGS NEHRP 2005 Priorities*
Mark Petersen, U.S. Geological Survey

9:00 *Ground-Shaking Working Group results*
Ivan Wong, URS Corporation

9:15 *Liquefaction Working Group 2003*
Steve Bartlett, University of Utah, Civil Engineering

9:30 *Earthquake-Induced Landslide Working Group results*
Francis Ashland, Utah Geological Survey

9:45 *Quaternary Fault Parameters Working Group results*
William R. Lund, Utah Geological Survey

10:00-10:20 Break

Moderator: William R. Lund

10:20 *Extending the paleoseismic record of the Provo segment of the Wasatch fault: preliminary results from the Mapleton "megatrench"*
Susan Olig, URS Corporation

10:40 *Active tectonics of the Nephi segment, revisited*
Chris DuRoss, University of Utah, Geology and Geophysics

11:00 *Levan segment WFZ surficial geologic map*
Michael D. Hylland, Utah Geological Survey, and Michael N. Machette, U.S. Geological Survey

11:20 *Latest East Great Salt Lake fault results*
David Dinter and James C. Pechmann, University of Utah, Geology and Geophysics

11:40 *Guidelines for evaluating surface-fault-rupture hazards*
Gary Christenson, Utah Geological Survey

12:00-1:20 p.m. Lunch (not provided)

Moderator: Francis X. Ashland

1:20 p.m. *USGS 2003 and planned 2004 seismic imaging studies*
Bill Stephenson, U.S. Geological Survey

1:40 *2003 SASW shallow shear-wave-velocity results*
James Bay, Utah State University, and Francis X. Ashland, Utah Geological Survey

2:00 *Profiling in the 100-300 m depth range with surface waves*
Kenneth Stokoe, University of Texas

2:20 *Plans for determining sediment thickness and site amplification factors in Salt Lake Valley, Utah, using ANSS data*
James C. Pechmann, and Kris Pankow, University of Utah Seismograph Stations

2:35 *GPS studies of the Wasatch fault zone, Utah, with implications for fault behavior and earthquake hazard*
WuLung Chang and Robert B. Smith, University of Utah, Geology and Geophysics

2:55-3:15 Break

Moderator: Barry J. Solomon

3:15 *Demonstration of UGS shear-wave-velocity, deep basin, and soil shear-strength databases*
Greg McDonald, Bill Case, and Justin Johnson, Utah Geological Survey

3:30 *Plans for construction and verification of a Wasatch Front community velocity model*
Kim Olsen and Harold Magistrale, San Diego State University, San Diego

3:50 *Developing response spectra for site class E soils*
Steven Bartlett, University of Utah, Civil Engineering

4:10 *UGS earthquake-induced landslide studies*
Francis Ashland, Utah Geological Survey

4:30 *EARTHSCOPE in Utah*
Robert B. Smith, University of Utah, Geology and Geophysics

4:50 Adjourn