



**2024 UTAH EARTHQUAKE WORKING GROUP MEETINGS
UTAH QUATERNARY FAULT PARAMETERS WORKING GROUP
AGENDA**

Monday, February 5, 2024

**Utah Department of Natural Resources Building, Auditorium (1st floor)
1594 West North Temple, Salt Lake City, Utah**

The 2024 Utah Quaternary Fault Parameters Working Group (UWFPWG) meeting will be held on Monday, February 5, 2024, at the Utah Department of Natural Resources Auditorium. This will be a hybrid (in-person and virtual) meeting.

- 8:00 Refreshments and Coffee
- 8:30 Welcome, Overview of Meeting, and Review of Previous Years' Activities: Adam I. Hiscock, Utah Geological Survey
- 8:45 Update on the U.S. Geological Survey (USGS) External Grants Program and Topics Across the Intermountain West Region: Chris DuRoss, USGS Geologic Hazards Science Center
- 9:00 Technical Presentations of Work Completed or In Progress
 - 9:00 Towards an Improved Salt Lake Valley Community Velocity Model Through Seismic and Gravity Joint Inversion, Part I— New Geological Constraints and Geophysical Data: Adam McKean, Christian Hardwick, and Kayla Smith, Utah Geological Survey
 - 9:30 Towards an Improved Salt Lake Valley Community Velocity Model Through Seismic and Gravity Joint Inversion, Part 2—Seismic Data and Joint Inversion: Fan-Chi Lin, University of Utah
- 10:00 Break (15 minutes)
 - 10:15 Intrabasin Faulting Beneath Salt Lake City—New Seismic Data Map the West Valley and Downtown Fault Systems: Lee Liberty, Boise State University
 - 10:45 New Paleoseismic Data and Challenges from the Urban Taylorsville Fault, West Valley Fault Zone, Utah: Emily J. Kleber and Adam I. Hiscock, Utah Geological Survey
 - 11:15 The Great Salt Lake as a recorder of Sublacustrine Surface Rupture and Strong Shaking in the Wasatch Front Region: Chris DuRoss, U.S. Geological Survey
- 11:45 Lunch (75 minutes)
- 1:00 Technical Presentations of Work Completed or In Progress (continued)
 - 1:00 The Most Recent Rupture of the Thousand Lake Fault (Post-LGM)—Examining Rupture Length and Average Displacement using Southern Utah Lidar Data: Nathan Toke, Utah Valley University

- 1:30 Utah Quaternary Fault Mapping Updates, Including Cache Valley and Southern Utah:
Adam I. Hiscock, Utah Geological Survey
- 2:00 Utah Paleoseismic Sites Database Update: Adam I. Hiscock, Utah Geological Survey
- 2:15 Break (15 minutes)
- 2:30 Updating the Working Group on Utah Earthquake Probabilities Forecast for the Wasatch
Front: Ivan Wong, Lettis Consultants, LLC
- 3:00 Quaternary Faults of the Uncompahgre Plateau, Utah and Colorado—Are they Q and are
they Faults?: Jim McCalpin, GeoHaz Consulting/Colorado Geological Survey
- 3:30 Break (15 minutes)
- 3:45 Group Discussion Time
- 4:15 Working Group 2025 Fault Investigation Priorities Discussion
- 5:00 Adjourn