



**2025 UTAH EARTHQUAKE WORKING GROUP MEETINGS  
UTAH QUATERNARY FAULT PARAMETERS WORKING GROUP  
AGENDA**

**Monday, February 10, 2025**

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

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The 2025 Utah Quaternary Fault Parameters Working Group (UWFPWG) meeting will be held on Monday, February 10, 2025, 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 Working Group on Utah Earthquake Probabilities II Updates – Paleoseismology Subgroup: Chris DuRoss, USGS Geologic Hazards Science Center
  - 9:20 Working Group on Utah Earthquake Probabilities II Updates – Modeling Subgroup: Alex Hatem, USGS Geologic Hazards Science Center
  - 9:40 Updated Paleoseismic Data for Recent Events on the Weber Segment of the Wasatch Fault Zone at the East Layton Site, Layton Utah: Robert Givler and Christopher Bloszies, Lettis Consultants International, Inc.
- 9:55 Break (flexible 20 minutes)
  - 10:15 Paleoseismic and Geologic Constraints on the Location and Timing of Surface Faulting along the Provo Segment of the Wasatch Fault Zone in Orem, Utah: Robert Givler, Christopher Bloszies, and John Baldwin, Lettis Consultants International, Inc.
  - 10:45 Examining the Spatial Variability of Uplift Along the Wasatch Fault and Adjacent Basin and Range Normal Faults Using Normalized Channel Steepness (Ksn) and Mountain Front Sinuosity (MFS): Nate Toke, Utah Valley University
  - 11:15 Towards an Improved Salt Lake Valley Community Velocity Model Through Seismic and Gravity Joint Inversion, Final Results: HyeJeong Kim and Fan-Chi Lin, University of Utah
- 11:45 Lunch (75 minutes)

- 1:00 Technical Presentations of Work Completed or In Progress (continued)
- 1:00 Characterizing the Frictional Strength, Stability, and Fabric Evolution of the Wasatch Fault Zone Through Laboratory Experiments: Srisharan Shreedharan and Alexis Ault, Utah State University
  - 1:30 Simulating the Evolution of Stress over the Past 7 ka along the Wasatch Fault System in Utah: Grasshopper Anderson-Merritt and Michele Cooke, University of Massachusetts Amherst
- 2:00 Break (15 minutes)
- 2:15 Utah Quaternary Fault Mapping Updates: Rachel Adam and Adam Hiscock, Utah Geological Survey
  - 2:45 sUAS-based Lidar for Fault Mapping: Adam Hiscock, UGS
  - 3:00 Utah Seismic Safety Commission (USSC) Update: Adam Hiscock, UGS
- 3:15 Break (15 minutes)
- 3:30 Group Discussion Time/Working Group 2025 Fault Investigation Priorities Discussion
- 5:00 Adjourn