2023 Montana GeoHazards Workshop – April 26-27, 2023
FEMA Training courses – April 27-28, 2023

Mountain Daylight Time

RTI Building, Room 13/15, Fort Harrison, MT

Directions: https://goo.gl/maps/QFGGRWBtFNivZP33A

AGENDA

Day 1, Wednesday April 26, 2023

9:30-10:00am. **Welcoming Remarks, Roundtable Introduction**

John Metesh, Director, Professor (MBMG)
Mike Stickney, Geologist, Professor, Director of Earthquake Studies Office (MBMG)
Yann Gavillot, Research Geologist, Associate Professor, Geohazards Program (MBMG)
Colleen Elliott, Geologist, Professor (MBMG)
Amanda Rossi, Geologist, Professional Scientist (MBMG)

10:00-12:00 pm. **Geohazards research and monitoring in Montana**

Speakers [20 min each]:

Yann Gavillot (MBMG) Fault and landslide investigations in southwest and western Montana.

John Sanford (MBMG) GIS modeling approaches to estimate landslide potential and Wed Map.

Mike Stickney (MBMG) Montana Regional Seismic Network and recent seismicity.

Hilary Martens (UofM) University of Montana seismic network and current investigations in western Montana using GPS data and micro-earthquakes.

Discussion: 30 min

Moderator: Colleen Elliott and Amanda Rossi (MBMG)

12:00-1:00pm. **Lunch Break**

1:00-3:00 pm. **Presentations and updates from agencies across Montana**

Andrew Long and Jake Ganieany (MT-DES)
Jeff Jackson (Montana Department of Transportation)
Michele Lemieux (MT DRNC)
Troy Blandford (Montana State Library)
Jeff Blend and Meranda Bass (MT-DEQ)
Anna Lang (Zylient, Inc)
Sean McGowan (FEMA)

Discussion: 30 min

Moderator: Colleen Elliott and Amanda Rossi (MBMG)

3:00-3:15pm. **Break**

3:15-4:30pm. **Earthquake Hazards for the Helena metropolitan area (Past, Present, Future)**
Speakers [15 min each]:

Mike Stickney (MBMG) Review of the 1935 Helena Earthquake

Mike Stickney (MBMG) **Sean McGowan** (FEMA) Seismic Hazards and Earthquake *HAZUS* Model for Helena.

Andrew Long/Sara Hartley (MT-DES): Mitigation and Disaster Planning Strategies for the city of Helena.

Discussion: 30 min
Moderator: Colleen Elliott and Amanda Rossi (MBMG)

4:30pm. **Adjourn day 1**

TBA. **Evening social event**

<u>Day 2. Thursday April 27, 2023</u>
9:30-11:30pm. **Panel Discussion on Post-Disaster Response – What would a repeat of the Helena Earthquake look like?**

- Surface deformation
- Damage to the city of Helena and infrastructure
- State and Federal post-disaster response and coordination efforts
- Long-term recovery and mitigation
- Unknowns and shortcomings

Discussion: 2 hours
Moderator: Colleen Elliott and Amanda Rossi (MBMG)

11:30-12:00pm. **Panel Discussion on Future Plans and Concluding Remarks.**

- **Table-top earthquake exercise**
- **Earthquake Clearinghouse Plan**
- **Montana Seismic Safety Commission**
- **Building an inventory of sensitive/URM buildings.**
- **2024 Montana Geohazards Workshop**

12:00-1:00 pm. **Lunch and Adjourn day 2** (except for people attending the FEMA trainings)

******See information below on the FEMA training courses offered on April 27-28, 2023******

FEMA Training Courses (FREE) – April 27-28, 2023

Mountain Daylight Time

RTI Building, Room 13/15, Fort Harrison, MT

Directions: https://goo.gl/maps/QFGGRWBtFNivZP33A

To register for the FEMA Training courses (**see flyers**), send email request to Yann Gavillot (ygavillot@mtech.edu) or Andrew Long (Andrew.Long@mt.gov).

- Thursday, April 27, 2023, 1:00-5:00pm. **Rapid Visual Screening of Buildings for Potential Seismic Hazards (FEMA-P-154).**

  Training covers methods and processes that enable personnel to rapidly identify, inventory, and screen local buildings according to their expected safety and usability during and after earthquakes. Local officials can use these data to plan and prioritize further engineering and vulnerability analysis, emergency-response needs, and mitigation projects.

- Friday April 28, 2023, 9:00am-12:00pm. **Earthquake Safety and Mitigation for Schools (FEMA-395).**

  Numerous school buildings located in multiple states and U.S. territories are vulnerable to earthquake damage that threatens safety and continued operations. In this training, participants learn how to: (1) assess and analyze seismic risks; (2) develop actionable plans for reducing and managing these risks; (3) secure nonstructural elements of school facilities; and (4) use "incremental seismic rehabilitation" as an affordable approach for protecting existing buildings and ensuring occupant safety.