

MEETING NOTES
COLORADO EARTHQUAKE HAZARD MITIGATION COUNCIL
July 21, 2022

In Attendance: Rob Jackson, Vince Matthews, Robin McGuire, Matt Morgan, Sean McGowan, Will Levandowski, Emily Palmer, Steve Board, Kyren Bogolub, Jackson Howard, Irene Merrifield, Dee Stevens, and Michael Haughey.

Item 3: Meeting Minutes: The May 19, 2022, CEHMC meeting minutes were briefly reviewed. No concerns were raised. The minutes were approved by consensus.

Item 4 – Congratulations to CEHMC member Robin McGuire who was given an Honorary Membership in Earthquake Engineering Research Institute (EERI) at the 12th National Conference on Earthquake Engineering in Utah in late June. Dr. McGuire has been an EERI member since 1975. He served as a Director of EERI and authored the EERI monograph “Seismic Hazard and Risk Analysis.”
<https://eeri.org/about-eeri/news/9563-eeri-2022-honorary-members-robin-k-mcguire-and-jack-p-moehle>

Item 5: CGS Outreach Program: Jack Howard from the Colorado School of Mines demonstrated the Raspberry Shake (RS) Seismometer system and equipment. Dr. Kyren Bogolub described the K-12 outreach program and events. Jack will be moving the outreach and the shakeout programs forward. A Colorado Geological Survey (CGS) outreach web page is under development. CGS currently has two RS units. A real time feed from the CGS Molly Annex at CGS is available. Information on the system is available at www.raspberrysshake.org with station data views for CGS stations.

Additional discussion ensued regarding data feeds from the National Earthquake Information Center and a comparison to the RS system. The RS is a short period seismometer. Indiana Homeland Security hosted a Get Shakin' Video Contest open to Indiana K–12 schools. Schools producing a video focusing on earthquake preparedness and/or safety could be awarded a RS system for a year. Indiana has provided ten schools with RS systems for a year as a part of their outreach program. Information is available at: <https://www.in.gov/dhs/get-prepared/nature-safety/earthquakes/get-shakin/>

The Great Shakeout event will be held on October 20, 2022, with information available at: <https://coloradogeologicalsurvey.org/2021/58774-great-colorado-shakeout/>. Additional information is also available at CGS_outreach@mined.edu.

Item 6: BRIC Project Report: Emily Palmer reported that the BRIC advisory group is meeting monthly to discuss both earthquake hazard building codes and the approach for the field work to be completed at one of the school sites. Steve Board has prepared an overview of school districts in Las Animas County for the committee.

Item 7: Discussion of BRIC Backup Sites: The BRIC project currently is planning for Las Animas County as the target area for schools and critical infrastructure evaluations. A discussion was held regarding possible backup sites. Evaluation criteria for a second site included regional population and the seismicity hazard. The 2013 statewide HAZUS evaluation was discussed. A concern was expressed that

the 2013 work may need to be updated. Summit County was discussed as an alternate site as were hotspots near Glenwood Springs. Q factors to be applied to Colorado were discussed. Sean McGowan will talk to his colleagues for their opinions on whether an update to the HAZUS runs is warranted.

Item 8: SEAC Seismic Position Statement: Rob Jackson reported that the Seismic Committee of the Structural Engineers Association of Colorado has developed a Position Statement regarding the Seismic Safety of New Colorado Buildings. The Statement was endorsed by vote of the Membership of SEAC at their March meeting. This, plus the recent snow and current wind recommendations, may be presented by SEAC to local building departments in the future.

Item 9. Updates: An update on the University of California – San Diego’s 10-story outdoor shake-structure table was provided. The project is intended to provide shake table testing of a full-scale resilient mass-timber building. <http://nheri.ucsd.edu/> and <http://nheritallwood.mines.edu/>

Will Levandowski, PhD, will present on the status of the WUS/CEUS attenuation boundary determination at the September 15, 2022, meeting. Future meetings will be held on Sept 15, and Nov 17.