

AGENDA

2018 Working Group on Nevada Seismic Hazards Workshop

February 5 and 6, 2018, Reno, Nevada

Day 1. February 5. Quaternary fault parameters and seismic hazards

8:30 – 8:45 Introductory remarks – Koehler and Anderson

8:45 – 9:00 Update on the USGS External Grants program – Gold

9:00 – 9:20 Anderson, J.G., 2018, **Building the Nevada Hazard Map: Information needed and some important uncertainties**

9:20 – 9:40 Petersen, M., Zeng, Y., Gold, R., and Shumway, A., 2018, **The 2018 and 2020 U.S. National Seismic Hazard Model for Nevada**

9:40 – 10:00 Wong, I., Lund, W., DuRoss, C., Thomas, P., Arabasz, W., Crone, A., Hylland, M., Luco, N., Olig, S., Pechmann, J., Personius, S., Petersen, M., Schwartz, D., and Smith, R., 2018, **Insights into Basin and Range seismic hazards from the Working Group on Utah Earthquake Probabilities**

10:00 – 10:20 Coffee Break

Northern Nevada

10:20 – 10:40 Wesnousky, S., 2018, **Questions bearing on the estimation of seismic hazard in the Reno-Carson-Lake Tahoe region**

10:40 – 11:00 Koehler, R.D., 2018, **Efforts to better characterize the seismic potential of faults in the North Valleys region, Reno, Nevada**

11:00 – 11:20 Pierce, I.K.D., Wesnousky, S.G., and Owen, L.A., 2018, **The Search for strike-slip in the Northern Walker Lane: New slip rates and characterization of active faults in Antelope, Mason, and Smith valleys, Nevada**

11:20 – 11:40 Angster, S., 2018, **New estimates on the rate of slip for faults of the Central Walker Lane**

11:40 – 12:00 dePolo, C., Gold, R., Briggs, R., Crone, A., Mahan, S., and Borchardt, G., 2018, **Recent Paleoseismicity of the Kings Canyon Fault Zone between Ash and Vicee Canyons, Carson City, Nevada**

12:00 – 1:20 Lunch

Southern Nevada

1:20 – 1:40 Taylor, W.J., Abdelhaleem, S., Peck, A., Dee, S., and dePolo, C., 2018, **Fault interactions along a N-S belt around 114.75 degrees W longitude in southern Nevada**

1:40 – 2:00 Dee, S., dePolo, C., Taylor, W., Mahan, S., 2018, **New paleoseismic data from the Frenchman Mountain fault, Las Vegas**

2:00 – 2:20 dePolo, C., Taylor, W., and Dee, S., 2018, **The Las Vegas Valley Fault System – A 2017 progress report**

2:20 – 2:40 Gold., R., Briggs, R., dePolo, C., Dee, S., and Petersen, M., 2018, **Seeking input on the inclusion of the Eglington fault, Nevada, in the National Seismic Hazard Map**

2:40 – 3:00 Break

3:00 – 3:20 Summary of Quaternary fault parameters and future directions – Koehler

3:20 – 4:20 Discussion: Implications to the National Seismic Hazards Map and priorities for future research- All

4:20 – 4:30 Summary and concluding remarks – Koehler and Anderson

4:30 Adjourn

Day 2. February 6. Seismicity, ground motions, and geodesy

8:30 – 8:45 Introductory remarks – Koehler and Anderson

8:45 – 9:05 Smith, K.D., Hatch, R.L., Ruhl, C.J., Kent, G.M., Kell, A., Slater, D., Plank, G., Williams, M., Cassar, M., Rennie, T., Torrisi, J., and Presser, R., 2018, **Review of Nevada and Eastern California Seismicity and the Nevada Seismic Network**

9:05 – 9:25 Ruhl, C.J., Smith, K.D., Abercrombie, R.E., Kent, G.M., Zaliapin, I., and Hatch, R.L., 2018, **Characterizing Earthquake Sources in the Urban Reno-Carson-Lake Tahoe Regions**

9:25 – 9:45 Hatch, R., Ruhl, C., Smith, K., and Abercrombie, R., 2018, **Precise relocations, source parameters, and directivity effect for five recent earthquake sequences near Nevada Urban Areas**

9:45 – 10:05 Anderson, J.G., Biasi, G.P., and Wesnousky, S.G., 2018, **Fault-Scaling Relationships Depend on the Average Fault-Slip Rate**

10:05 – 10:30 Coffee Break

10:30 – 10:50 Dickenson, S., and Louie, J.N., 2018, **Characterization of Earthquake Ground Motions for Engineering Design in the Reno Basin: Geotechnical and Seismological Perspectives**

10:50 – 11:10 Louie, J.N., Dunn, M., and Pancha, A., 2018, **Comprehensive Community Velocity Models for Nevada's Urban Basins: The Key to Predicting Earthquake Ground Motions**

11:10 – 11:30 Ahdi, S.K., Stewart, J.P., Kwak, D.Y., Yong, A., Sadiq, S., Ilhan, O., Park, D., Hashash, Y.M.A., and Bozorgnia, Y., 2018, **Development of a Community Shear-Wave Velocity Profile Database in the United States**

11:30 – 11:50 Dunn, M., Louie, J., Smith, K.D., Dickenson, S., and Hatch, R.L., 2018, **Investigating basin amplification factors for shaking in the Reno-Tahoe and Las Vegas regions for local and regional events**

11:50 – 1:30 Lunch

1:30 – 1:50 Bormann, J., Hammond, W.C., Kreemer, C., and Blewitt, G., 2018, **GPS constraints on present-day slip rates in the northernmost Walker Lane: Reno, Carson City, and Tahoe region, NV and CA**

1:50 – 2:10 Hammond, W., Kreemer C., and Blewitt, G., 2018, **Robust Estimation of Fault Slip Rates Using GPS Imaging in the Walker Lane and Western Great Basin**

2:10 – 2:30 Kreemer, C., Young, Z. Hammond, W., Blewitt, G., 2018, **Robust Estimation of the Secular and Time-Variable Strain Rate Field in the American Southwest**

2:30 – 2:50 Brune, J, 2018, **Update on PBR Constraints on Ground Motion from Normal Faults**

2:50 – 3:10 Break

3:10 – 4:10 Discussion: Implications to the National Seismic Hazards Map and priorities for future research - All

4:10 – 4:30 Summary of seismicity, ground motions, and geodesy and concluding remarks – Koehler and Anderson

4:30 Adjourn