



Colorado Scientific Society

All are invited!

Short Talks & Poster Session Evening

Thursday, Sept. 20, 2018

Please come and join us for a selection of talks and poster papers from past or upcoming geologic meetings, on a wide variety of topics

Arbor House, Maple Grove Park, 14600 W. 32nd Ave., Golden (Applewood area)

*Complimentary refreshments!**

5:30 p.m. social time and poster viewing (authors present)

7:00 p.m. oral presentations (four 15-minute talks)

Oral presentations:

The effects of geological structure and clay on landslides in the Teklanika Formation in Denali National Park and Preserve, Alaska, Michael Frothingham, PhD student, CU Boulder

Insight into incipient motion of blocks on a river bed from Computation Fluid Dynamics modeling, Aaron Hurst, PhD student, CU Boulder

Seasonality of a Sub-Alpine Lake: Understanding evolving physical and biogeochemical controls on aquatic ecosystem structure under ice cover. Rocky Mountain National Park, Colorado USA, Garrett Rue, PhD Candidate, CU Boulder

The role of flashing in the formation of high-grade, low-sulfidation epithermal deposits: a case study from the Omu Camp in Hokkaido, Japan, Lauren Zeeck, MS Candidate, Colorado School of Mines

Poster presentations: see next page

**including our thank-you to Golden City Brewery!*

Poster presentations:

Evidence of rapid incision within tributary box canyons during historical times, South Platte River corridor, northeastern Colorado, Margaret E. Berry, U.S. Geological Survey

The importance of mineralogy for deciphering the evolution of alkali-basaltic magmas: a case study of Dotsero volcanics (Eagle County, central Colorado) , Anton Chakhmouradian, Geological Sciences, University of Manitoba, and Peter Modreski, USGS

Evolution of an interbasin mountain-block extensional accommodation zone within the central Colorado Rio Grande rift, USA, Scott A. Minor, Jonathan Saul Caine, Chris J. Fridrich, Mark R. Hudson, and Cal Ruleman, U.S. Geological Survey

Geology of the upper Arkansas River valley, Colorado - a field mapper's perspective, Colorado Scientific Society, Field Trip, Sept 15-16, 2018
Trip leaders: Karl Kellogg (USGS emeritus), Cal Ruleman (USGS), and Scott Minor (USGS)

U-Th Geochronology using hydrogenic and biogenic materials, James B. Paces, USGS, Elizabeth M. Niespolo, Dept. Earth & Planetary Science, Univ. of California, Berkeley, and Warren D. Sharp, Berkeley Geochronology Center, Berkeley, CA

Mineralogy and petrogenesis of the California Blue mine aquamarine- and topaz-bearing pegmatite deposit, San Bernardino County, California, Carolyn Pauly, MS student, CSM

Pleistocene lakes and paleohydrologic environments of the Tecopa Basin: Constraints on the drainage integration of the Amargosa River, Marith Reheis, John Caskey, Jordon Bright, and Jim Paces, U.S. Geological Survey

Understanding geomorphic response to floods: the role of scale and gradients, Joel Sholtes, US Bureau of Reclamation

Indigenizing water resources on the Navajo Nation: A water policy analysis and critique, Andrew Swanson, Undergraduate student, CU Boulder

The basement tapes: Mapping the Precambrian beneath the Colorado Plateau, D.S. Sweetkind, U.S. Geological Survey

A paleoseismic investigation of the Northern Teton fault at the Steamboat Mountain trench site, Grand Teton National Park, Wyoming.
Mark S. Zellman, BGC Engineering, Inc., and Christopher B. DuRoss, Glenn D. Thackray, Richard W. Briggs, Nicole Cholewinski, Tyler Reyes, Nick Patton, and Shannon A. Mahan, USGS