



**Colorado Scientific Society – Earth Sciences since 1882**  
***The oldest scientific society in the Rocky Mountain region***

Founded in 1882, the objective of the Society is to promote the knowledge and understanding of Earth science, and its application to human needs. Samuel Franklin Emmons, 1841-1911, was “Geologist in Charge” of the Colorado Division of the U.S. Geological Survey when it was established in 1879 and was the first president of the Society. We focus primarily on earth science, welcoming members with interests in all fields of science. [Learn more.](#)

**March 2026 Colorado Scientific Society Newsletter**

**CSS March Meeting**  
**Thursday, Mar. 19, 2026 at 6:45 p.m.**

**Dr. Nicole Peavey, Staff Paleontologist at the Colorado Department of Transportation**  
**A “Dino first responder”.**



Dr. Nicole Peavey

In-person Meeting at **Calvary Church, Golden, enter off 14th Street**

*All are welcome – no admission charge*

**6:30 pm – Social time begins**

**6:45 pm – Join Zoom meeting, if attending remotely**

**7:00 PM – Meeting starts.**

Please arrive early. Church doors are locked, and you must text someone to get in **after 7:00 pm.**

[Click to Join CSS Zoom Meeting](#)  
from PC, Mac, Linux, iOS or Android

The details about attending the meeting in person at the Golden Calvary Church follow the details about the talk.



Dr. Nicole Peavey, on the job

### **Mitigation Paleontology in CDOT's Environmental Program**

Mitigation paleontology entails the recovery and conservation of fossils that are threatened by human activities, including ground disturbance, vandalism, and poaching. Those activities have resulted in the recovery and preservation of countless scientifically significant fossils worldwide. The mission of the Paleontology Program at the Colorado Department of Transportation (CDOT) is to collect, preserve and facilitate the scientific study of important fossils and associated geologic and paleontological data that might otherwise be damaged or destroyed by road construction and maintenance throughout Colorado. Dr. Peavey will describe her work with environmental policy related to paleontology, fossil resources preservation, and project impact mitigation.



Dr. Nichole Peavey

**Speaker Background:**

**Dr. Nicole Peavey** is the staff paleontologist at the Colorado Department of Transportation, an unusual job made possible by a quirk of Colorado law and the rich fossil resources of the Centennial State. As part of the department's Environmental Programs Branch, she works with other scientists and specialists to ensure that CDOT follows the rules that protect and manage our natural resources throughout the state of Colorado.

**Education:**

BA in Geology: Whitman College, Walla Walla WA

MS in Geosciences & Vertebrate Paleontology: Fort Hays State University of Kansas

Ph.D in Geosciences; Texas Tech University: Lubbock TX<

More information about Nicole at [Nicole Peavey – Museum of the Earth](#)

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## **In-person Meeting at Calvary Church Golden**

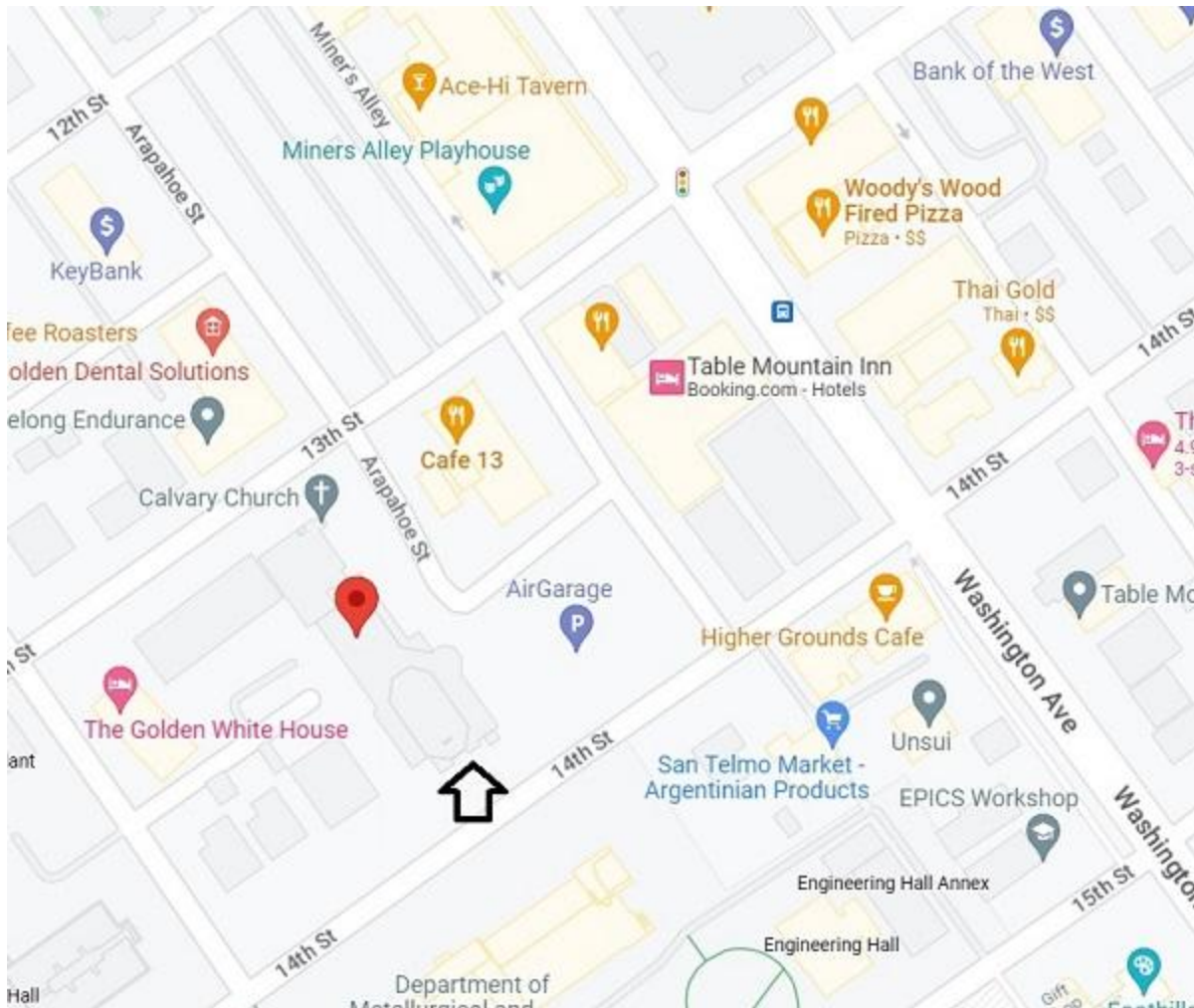
*All are welcome – no admission charge*

**6:30 pm – Social time** begins at Calvary Church Golden. Enter off 14th St.

**6:45 pm – Join Zoom meeting**, if attending remotely

**7:00 PM – Meeting starts.**

Please arrive early. Church doors are locked, and **no one will be at the door to let you in after 7:00 pm.**



Calvary Church Golden. Enter at arrow on map.

[1320 Arapahoe St, Golden, CO 80401](https://www.google.com/maps/place/1320+Arapahoe+St,+Golden,+CO+80401)

Click on link to open a Google map.

**Enter off 14th St.,** going in via the main glass doors on 14th St.

Do **not** enter the old church above 13th St.

Go through building following the CSS signs to the Community Rooms 1 and 2, where we meet.

**The church doors must stay locked, and we will have a person to let you in at the doors off 14th st.**

They want to see the presentation too, so **please arrive before 7:00 pm.**

There will be a phone number that you can text to be let in if you arrive late.

### **Parking**

On street parking is available close by, west of Washington Ave in downtown Golden. The “Public Parking” NE of the Church is free for registered church members but not for us. Lowest parking rate is \$5.75 for three hours; one pays using a QR code shown on signs there. For that parking rate, it says one is supposed to park on the upper (roof top) level. When driving uphill (southwest) on 14th St, the rooftop entrance is the 2nd entrance to the parking structure, immediately before the church.

**For free parking:** 14th Street usually has parking within a block of the entrance to the Church. Coming from the north (CO 93) or northeast (CO 58, between North and South Table Mountains), come southeast on Washington Street, turn right (southwest) on 13th Street, Turn left on Cheyenne St. Go up the hill and turn right on 14th Street. Park on your right.

Coming from the east or or southeast on US 6 (6th Ave.), exit US 6 onto 19th St. going NE. Turn left

on Illinois St. Go through the Mines campus and turn right on 14th St. If you can, park NE of Cheyenne St. There is usually also parking available a block from the church, on campus on Illinois St.

**When 14th Street is full**, Mines may have scheduled an event.

There is Golden city parking southwest of downtown Golden. This is downhill from (northwest of) the Church in the half block between 13th and 12th streets, between Arapahoe St. on the SW and Miners Alley on the NE. There is usually space here. The Foss Lot (SE half of the parking area) is private and says "Paid Parking". The public Arapahoe Lot (NW half of the parking area) says "Paid Parking 7-5" and should be free.

To get to the meeting, go up the hill along the church by Arapahoe St.

You can also find parking in the streets below (north of) the Church and west of downtown Golden.



## **Please pay your CSS dues for 2026!**

You may pay dues online or print out a PDF of the membership form and mail it to us with a check. Continuing your membership in CSS will enable us to continue all our ongoing programs, including our field trips, virtual meetings, Student Research Grants, and more.

See [Membership and Donations](#) for the CSS membership PDF and our online membership payment form.

**Regular CSS Membership** is \$25;

**Student Membership**, \$5;

**Life Membership**, \$395.

Send your membership payment, if not done through [our online membership payment form](#), to Colorado Scientific Society P.O. Box 150495 Lakewood, CO 80215-0495.

Thank you!

# CSS April Meeting

Thursday, April 16, 2026 (exact presentation title by Eric Roberts To Be Announced)

Dr. Eric Roberts, Colorado School of Mines, Department of Geology and Geological Engineering

In-person Meeting at **Calvary Church, Golden**

*All are welcome - no admission charge*

**6:30 pm** – Social time begins

**6:45 pm** – Join Zoom meeting, if attending remotely

**7:00 PM** – Meeting starts.

Please arrive early. Church doors are locked, and you must text someone to get in **after 7:00 pm**.

The link to Join CSS April Meeting via Zoom will be added here



Dr. Eric Roberts

**Dr. Eric Roberts**

Professor, Geology and Geological Engineering

Director, Potential Gas Agency

I am a sedimentary geologist who works on Mesozoic and Cenozoic basins, and maintains close links with industry, as well as vertebrate paleontologists, to better place the continental sedimentary record into a robust stratigraphic and tectonic context.

## Research Interests

- Basin analysis, energy exploration and sedimentary geology with a focus on Mesozoic-Cenozoic basins in Gondwana and North America
  - U-Pb geochronology and sedimentary provenance analysis
  - Critical minerals and resources, including Helium and Hydrogen exploration
  - Hydrocarbon exploration and reservoir and seal characterization
  - Global energy transitions
  - Continental ichnology
  - Vertebrate paleontology/paleoanthropology with a focus on stratigraphy, dating, taphonomy and paleoenvironmental reconstruction

## Skills and Expertise:

Sedimentology, Stratigraphy, Palaeoecology, Tectonics, Sequence Stratigraphy, Geology, Sedimentary Basins, Sediments, Evolution, Field Geology

## CSS Special Topical Session



### **Greenland: A geocitizen's introduction to its bedrock geology and glacial history**

Wednesday, April 22, 2026

Benson Hall, CU Boulder campus and via Zoom

Dr. Flemming Mengel, Geological Sciences, CU Boulder

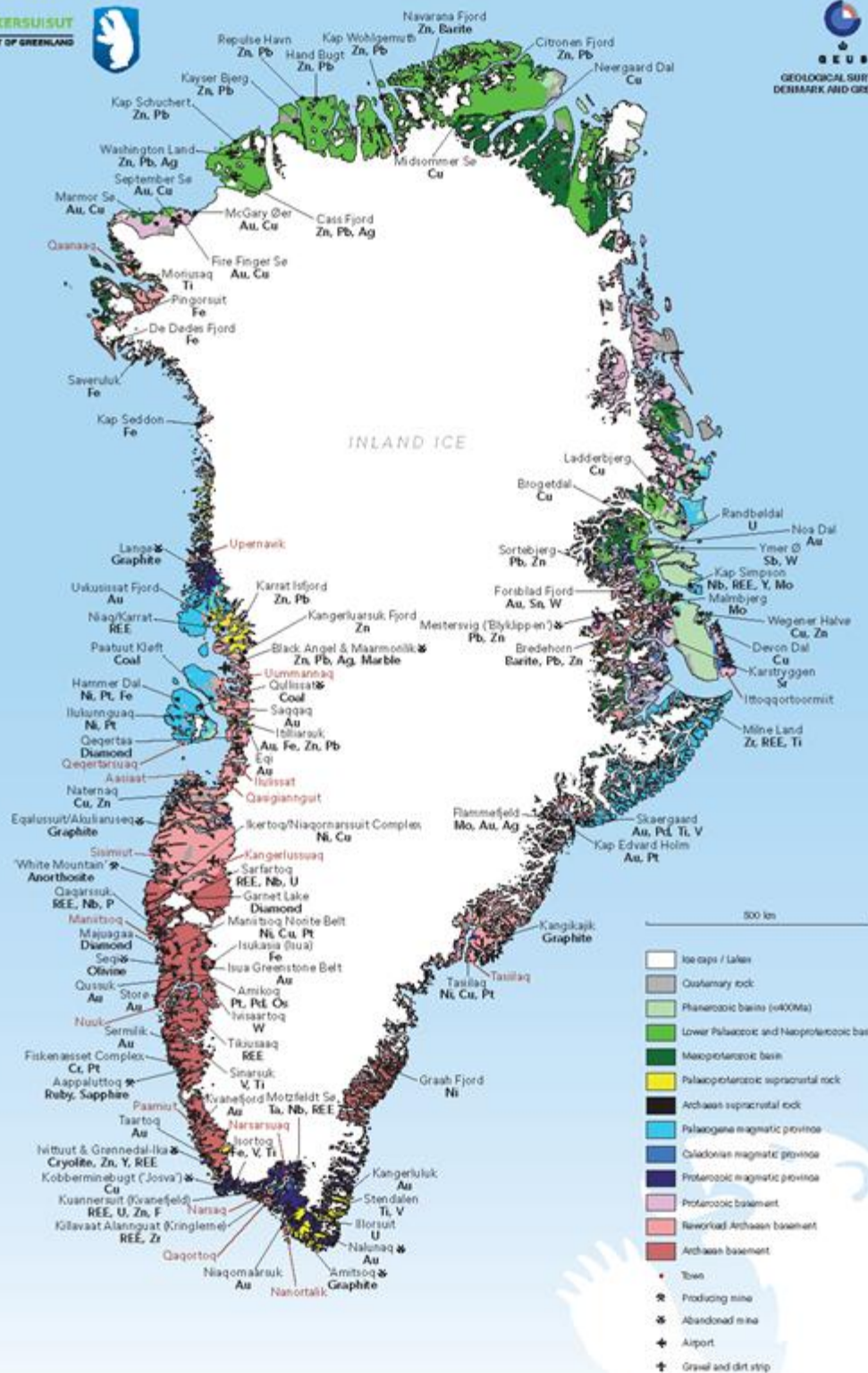
Dr. Bradley Markle, Geological Sciences & INSTAAR, CU Boulder

# GREENLAND GEOLOGY AND SELECTED MINERAL OCCURRENCES

NAALAKKERSUISUT  
GOVERNMENT OF GREENLAND



GEOLOGICAL SURVEY OF DENMARK AND GREENLAND



[Click to download](#)

large (2.9 MB) PDF with more detail.  
Then click the + in the top menu bar to zoom in.  
Thanks to Jim Paces for finding the map.

## Lecture Highlights:

Greenland has recently been at the center of geopolitical discussions due to its strategic location and potential natural resources. Both natural and human resources of the world's largest island will become increasingly important as warming climates allow greater habitation, increased mineral exploitation, new shipping routes, and heightened geopolitical relevance. Yet the geologic and glacial histories of Greenland remain underappreciated by many in the geoscience community. To achieve a better informed geocitizenry, Drs. Flemming Mengel and Bradley Markle will provide an overview of the 3.8 Ga geotectonic evolution of the crust underlying the world's second largest continental ice sheet, the conditions that lead to its current glacial state, and what that ice can inform us about earth's past and future climates.

## Speakers



Dr. Flemming Mengel

**Dr. Flemming Mengel**, Geological Sciences, CU Boulder

Dr. Flemming Mengel has worked extensively on the tectonic evolution of west Greenland and Labrador during and after receiving his PhD at Memorial University, St. John's, Newfoundland, in 1988. He has published widely on tectono-metamorphic evolution of the Paleoproterozoic Nagsugtoqidian orogen. He also has years of experience in conventional and unconventional oil and gas plays focused in Rocky Mtn basins. He is currently a lecturer at CU Boulder.



Dr. Bradley Markle

Dr. Bradley Markle, Geological Sciences & INSTAAR, CU Boulder

Dr. Bradley Markle studies Earth’s climate system, how it works, and how it changes through time. His research specialties include isotope biogeochemistry; paleoclimate and climate dynamics, particularly in the high latitudes. He uses those tools to investigate geochemical proxy records and models of paleoclimate and climate dynamics. He received his PhD at the University of Washington, Seattle, in 2017 and currently holds positions in the CU Boulder Geosciences department and the Institute for Arctic & Alpine Research.

**Keywords** Greenland; geologic evolution; mineral resources, ice sheet; paleoclimate

Flyer for [Greenland Geology and Glaciology \(PDF\)](#)

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Copies of *The Geology of Boulder County* by Raymond Bridge (2004) will be available for \$20 at the meeting.

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**Field Trips and “No Moss” short field trips: *To Be Announced***

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**[Read past Colorado Scientific Society Newsletters](#)**

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**[Archive of Past Colorado Scientific Society Meetings  
Including video recordings of most meetings](#)**

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## About the Colorado Scientific Society

The Colorado Scientific Society was founded in 1882 as a forum for the exchange of observations and ideas on the topics of earth science. Lecture topics largely focus on earth science, and are open to the public. In addition to our monthly lecture series, the society is also active in public service. We fund student research grants, construct and post signs that describe local geologic features, and organize and lead field trips.

The Colorado Scientific Society normally **meets on the third Thursday of the month from September through May**. (In the summer months of June-August, too many members are out in the field.)

**6:30 – Social time at in-person meetings**

**6:45 – Join Zoom meetings**

**7:00 – Meeting and Program begin**

Our 2026 officers and Councilors are:

President – **Amy Atwater**, Director of Paleontology at Dinosaur Ridge

Secretary – **Patrick Sullivan**, Colorado School of Mines

Treasurer – **Jim Paces**, U.S. Geological Survey, scientist emeritus

Past President – **Shannon Mahon**, U.S. Geological Survey

President-elect (to become president in 2027) – **Eric Roberts**, Colorado School of Mines

Councilors: 2024-2026: **Nate Rogers**, U.S. Geological Survey

2024-2026: **Susan Slomski**

2025-2027: **Lisa Rukstales**, U.S. Geological Survey, retired

2026-2027: **Harrison Gray** (filling in the remainder of a 2025-2027 term)

2026-2028: **Madeline Ferguson**, Colorado Geological Survey

2026-2028: **Amy Crandell**, Colorado Geological Survey

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### Other events:

*We'll repeat, from CSS member Lew Kleinhans:*

*... for you and/or family member(s) and friend(s)??*

*Join the fully outfitted, 9-day Grand Canyon Float Trip with scientific leadership from **June 14-23, 2026**.*

*The price of \$5,500 per person includes:*

- *First night lodging at Cliff Dwellers Lodge (June 14th).*
- *Boats, crew, and scientific leadership.*
- *Transportation at the end of the trip (June 23), including a scenic helicopter lift-out and fixed-wing flight back to your point of origin (Marble Canyon, AZ or Las Vegas, NV).*
- *All food, food preparation, and complete camping gear.*
- *...and much more!*

*Knock this once-in-a-lifetime item off your bucket list. A \$600 deposit secures your spot.*

*See the link to the trip flyer and testimonials below.*

<https://rebrand.ly/grandcanyonfloattrips>

*And/or contact Lew Kleinhans at [lewis.oysterclub@gmail.com](mailto:lewis.oysterclub@gmail.com) or +1-720-273-9233 (consider texting before calling and/or leave a message) to register or for more information.*

More events:

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**March 20-22, Fort Collins Gem & Mineral Show**, 4-8 p.m. Fri. Mar 20, 9-6 Sat. Mar. 21, 10-4 Sun., Mar. 22. Sponsored by the Fort Collins Rockhounds Club; featuring, “Fossils and Geodes”. At The Ranch/Larimer County Fairgrounds, Thomas M. McKee 4-H, Youth and Community Building; 5280 Arena Circle, Loveland, CO; I-25 exit 259.

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**April 17-19, Colorado Mineral and Fossil Spring Show**, at the Livestock Center at the National Western Center, 5115 Race Court, Denver. 10-6 Fri. & Sat., 10-4 Sun. Free admission, \$15 parking fee.

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**Denver Museum of Nature & Science, 2026 Earth Science Colloquia:** the next colloquium talks:

*“Talks are in-person-only, from 2-3 p.m. in Ricketson Auditorium. Museum admission not required to attend. Enter through Staff/Volunteer entrance, 50’ east of main visitor entrance, and let Security know you’re attending the talk, they will direct you to the location.”* The next two talks will be:

**Fri., May 1, Hot to the touch! Scorching temperatures in the mid-Cretaceous western USA**, by Anne Fetrow, Colorado College.

**Wed., May 20, Recent research on the pattern of erosion and uplift around and caused by the Yellowstone hotspot**, by Joel Pederson, Colorado College.

See <https://sites.google.com/view/dmns-earth-science-colloquium/home> for the full year’s schedule of DMNS Earth Science Colloquia.

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**Thurs., May 21, CSS May meeting, presentation TBA**

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