



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.

May 2024 Colorado Scientific Society Newsletter

CSS May Meeting **Thursday, May 16, 2024 at 7:00 p.m.** **Calvary Church, Golden, and via Zoom**

Rare Earth Elements: Some Thoughts for Colorado and the United States

Peyton Jackson, American Clean Resources Group
In-person Meeting at Calvary Church Golden or Join us on Zoom

Link to Join CSS May Meeting via Zoom

CSS is inviting you to our meeting on Thursday, May 16th at 7:00 pm.

Click to Join CSS Zoom Meeting
from PC, Mac, Linux, iOS or Android

[For other Zoom options, click here.](#)

See details about attending in-person at the church below.

Brief description: My presentation will be a discussion and analysis of Rare Earth / Critical Minerals and the Geopolitical landscape. I am a salesperson by trade and want to bring to CSS members an understanding of our Societies’ shortcomings within the supply chain and of course the elephants that are in the room (China, regs, political will, economics etc.).



Biography, Peyton N Jackson

57 years old, father of 4 grown children, Navy Brat with the typical world traveled Viet Nam era Asia Pacific locations, left coast tour (Long Beach / Coronado) and then later upbringing in Wash DC Suburb of Alexandria VA. Graduate of James Madison University, BA English and History w/Minor in Geology.

Thirty five-year veteran of the financial services and sales industry with experience and expertise in multiple facets of the industry including and not limited to brokerage, investment banking, marketing, sales management and training, corporate structure and regulatory

compliance, internal organization, management hierarchy, public relations, investor relations, HR advisory, AdTech and Martech consulting and management, sales force recruitment.

Professional affiliations with AG Edwards & Sons, Morgan Stanley, and various small boutiques and family offices, AdTech agencies with Small Medium Business focus as well as global large cap firms such as Stihl, Bosch, Johnson & Johnson, and others. Experience in sales team creation and management, reorganization, and product shift. Association networking and advisory. Business development lead generation. C-level and BOD level recruitment and vetting.

Significant work assignments and clients in The Mining and mineral exploration sector in Appalachia Coal operations: Kentucky, West Virginia, and Virginia. Hard rock gold in Northern California and extensive consulting for Colorado, Nevada, Arizona and Idaho mining operations in gold, silver, and rare earths, (lanthanides). Specialty focus on geo survey, NT 43-101, SK 1300, core drilling, and regulatory oversight, audit review and validation. MSHA regulatory advisory and compliance. Significant expertise and experience in Smart Mining IP Development, efficient water management, extraction circuits and metallurgical processing including ownership in several process patents.

Specialization in Mining and strategic metals due diligence team building. Sourcing of Contract mining entities, third party evaluators: NT 43-101, SK 1300 reporting. Site assessment, regulatory evaluation. High degree of specialty in expert recruiting for specialized mine project needs including engineers, geologists, miners, chemists, and C level executives. Sophisticated understanding of executive requirements for Publicly traded entities and private to public transitions.

Favorite business clients and professional leaning has involved entities in SMB Service Industries, small innovators, product launch and development, mining, exploration, underground infrastructure, and innovation related to mineralogy, exploration, and extraction. Work herein relates to Governmental liaison (Capitol Hill) and industry associations, major Universities, and foundations as well as small viable operations in the high grade / low volume sectors. Public relations and local government mediation and community relations.

Affiliations Current and Past:

Critical Minerals Institute, Director
BOD Denver Mining Club (BOD)
BOD Colorado School of Mines Museum (Chair BOD)

Member, Colorado Scientific Society
Member, Denver Regional Geology Society
Member, Colorado History

In-person Meeting at Calvary Church Golden

All are welcome – no admission charge

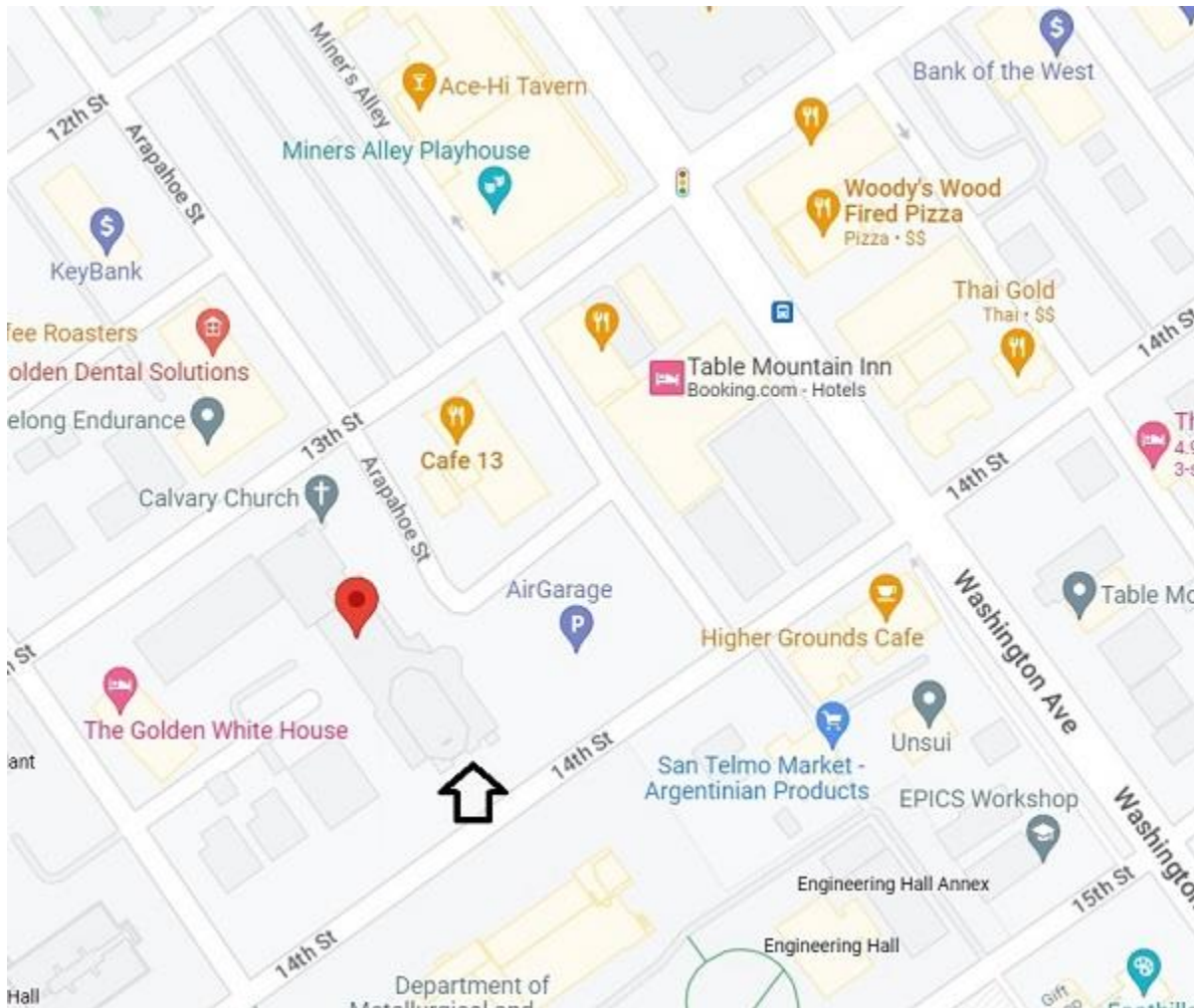
6:30 pm – Social time at in-person meetings

6:45 pm – Join Zoom meetings

7:00 pm – Meeting and Program begin. Please arrive early.

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

See details about attending in-person at the church below.



Calvary Church in Golden. Enter at arrow on map.

[Calvary Church Golden](#)

Click on link to open a Google map.

Enter from 14th St., go in by the main glass doors at [906] 14th St.

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

From the 14th Street entrance go down the hallway following Colo Sci Soc signs to 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, along 14th St and west of Washington Ave in Golden.

The AirGarage parking structure, which can be entered from Arapahoe St., is \$3.00 for three hours.

Where's this rock?



Our “Where’s This Rock” photo for April was taken on the Society’s March 30 “No Moss” field trip to Red Rocks Park. It shows, “of course”, multicolored, variably bleached by reducing ground waters, beds in the Fountain Formation (that’s the simple version of the story).



And here is our “Where’s This Rock” for this month! This was encountered on a hiking trail recently. What do you think it is, and, your guess, as to where found? Write your guess back to pmodreski@gmail.com. We’ll report on the results in the next newsletter.



CSS 2024 Meetings

CSS May Meeting

Rare Earth Elements, Some Thoughts for Colorado and The United States

Thursday, May 16, 2024 at 7:00 p.m.

Peyton Jackson, American Clean Resources Group

In-person Meeting at Calvary Church Golden or Join us on Zoom

See more info about this presentation now posted on the CSS website!

CSS Past Presidents Dinner – September

Topic TBA

Thursday, September 19, 2024 at 7:00 p.m.

David Goodwin and Peter Roopnarine, California Academy of Sciences

Mount Vernon Canyon Club or Join us on Zoom

CSS October Meeting

Topic TBA

Thursday, October 24, 2024 at 7:00 p.m. – note, a week later than normal

Harrison Gray, U.S. Geological Survey

In-person Meeting at Calvary Church Golden or Join us on Zoom

CSS November Meeting and Student/Member Poster Night

Thursday, November 21, 2024 at 7:00 p.m.

In-person Meeting at Calvary Church Golden or Join us on Zoom

CSS December Holiday Potluck, Meeting and President's Address

Quaternary Records of Spring Ecosystems

Tuesday, early December 2024 at 5:30 p.m. (planned date now = Tuesday, Dec. 3)

Jeff Pigati and Kathleen Springer, U.S. Geological Survey

In-person Potluck Dinner at New Terrain Brewing Company or Join us on Zoom

Watch Zoom Recordings of Recent CSS Meetings!

Most recent CSS presentations are recorded on Zoom. Follow the links on our website in the titles for each presentation to see abstracts, biographies of the speakers and video recordings of our meetings.

Please pay your CSS dues for 2024!

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!

Field trips to come

We are planning to have some additional “No Moss” short field trips, and one or more full-day or weekend field trips, during the year; we’ll be informing you (and see our website!) as specific trips are scheduled. Some likely trips being discussed include: Faulting on Green Mountain; Gateway Mesa (Castle Rock) Open Space and the Castle Rock

Conglomerate; geologic structures along Coal Creek; Eldorado Springs Canyon; and, building stones in downtown Denver historic buildings.

We'll hope to see you at many or all of these coming events!

---Pete Modreski, CSS newsletter editor; you can always write to me at pmodreski@gmail.com

CSS officers and councilors for 2024 are:

Jeff Pigati – President	Julie Herrick – Councilor 2022-2024
Shannon Mahan – President Elect	Lesli Wood – Councilor 2022-2024
Cal Ruleman – Past President	Michael Frothingham – Councilor 2023-2025
Patrick Sullivan – Secretary	Kassandra Lindsey – Councilor 2023-2025
Jim Paces – Treasurer	Susan Slomski – Councilor 2024-2026
Chris Morrison – Chair, Webmaster	Nathan Rogers – Councilor 2024-2026
Pete Modreski – Newsletter	Sylvia Nicovich – Chair, Field Trips

Available from the CSS—Did you know?

The Geology of Boulder County, with 25 Field Trips, 2004, by Raymond Bridge, 490 pages, Lone Eagle Publications. \$20.00. Copies of this book were donated to the CSS by the family of the author (deceased)

Colorado Scientific Society T-Shirts; also \$20.00

Ask to see these at any of our CSS meetings! [You'd know better about these, and would have seen them, if you come to our meetings in person!]