



Colorado Scientific Society – Earth Sciences since 1882

The oldest scientific society in the Rocky Mountain region

Founded in 1882, the Colorado Scientific Society promotes knowledge, the understanding of science, and its application to human needs.

We focus primarily on earth science, welcoming members with interests in all fields of science. [Learn more.](#)

CSS Newsletter, September 2025



CSS Past Presidents at the 2024 CSS Past Presidents' Dinner

from bottom left: Marith Reheis 2017, Jeff Pigati 2024, Cal Ruleman 2023, Ned Sterne 2021, Bill Nesse 2007, Pete Modreski 2012, Mark Hudson 2000, Karl Kellogg 1997, Steve Sonnenberg 1992, Scott Minor 2010, Jim Paces 2020.

See over 140 years of [Colorado Scientific Society Past Presidents.](#)

Future Colorado Scientific Society Meetings and Field Trips

We normally hold monthly meetings from September through May.
Our meetings are normally now both in-person and virtual.

Colorado Scientific Society 2025 Past Presidents' Dinner and Program Thursday, September 18, 2025

This is also the Colorado Scientific Society's September meeting.
Dinner and presentation at the **Mount Vernon Canyon Club**
24933 Clubhouse Circle, Golden, CO 80401
(on Lookout Mtn., off I-70)



Mount Vernon Canyon Club

We are in the Aspen Room on the top floor, which is accessed by both stairs and an elevator.



Aspen room terrace

Social Time 5:30 pm Dinner Service 7:00 pm Program 8:00-9:00 pm

Everyone is welcome.

Menu

Cash Bar Dinner Buffet

\$65 regular

\$30 student

Mixed Green (GF) & Peach Panzanella Salads

Colorado Pan-Seared Chicken (GF)

Figgy Piggy (GF)

Roasted Red Bliss Potatoes (GF)

Bistro Seasonal Vegetables (GF)

Rolls with Butter

Assorted cup cakes

Coffee, Hot Tea, Iced Tea

[Vegetarian plates available]

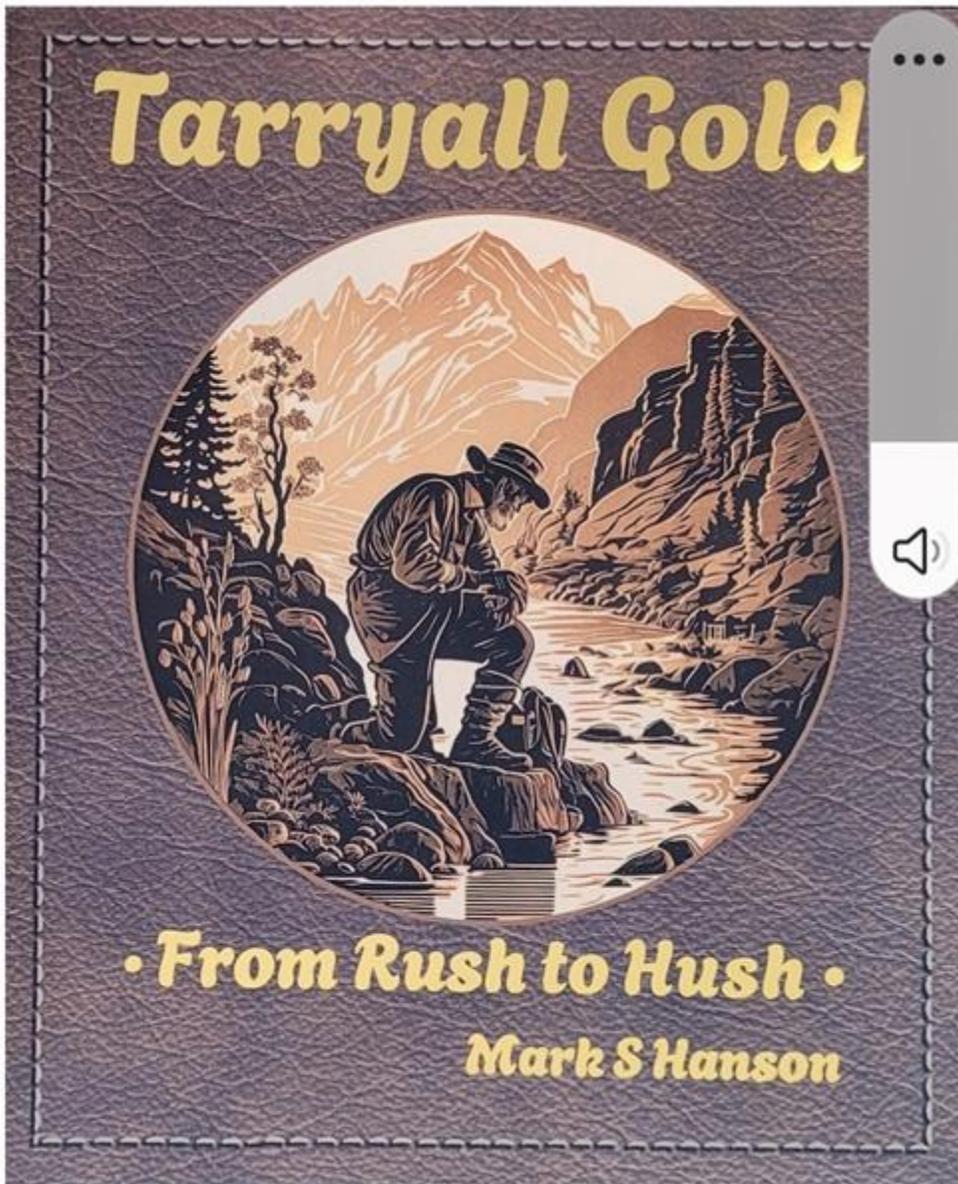
Make your dinner reservations below.

The presentation will also be available via Zoom.

The link to join the Zoom meeting will be posted here later.

Tarryall Valley: Gold, Glaciers, and Giants

Mark S. Hanson, Senior geologist and historian



Tarryall Valley: Gold, Glaciers, and Giants – a 160-year history of the miners, mines, cabins, and the resulting patina on today’s Tarryall Valley of Colorado’s Front Range. A resident and owner of several patented gold claims, Mark will discuss the geology, economic resources, exploitation, and reforestation activities associated with Colorado’s first gold stampede.

[Flyer for 2025 Colorado Scientific Society Past Presidents’ Dinner](#)

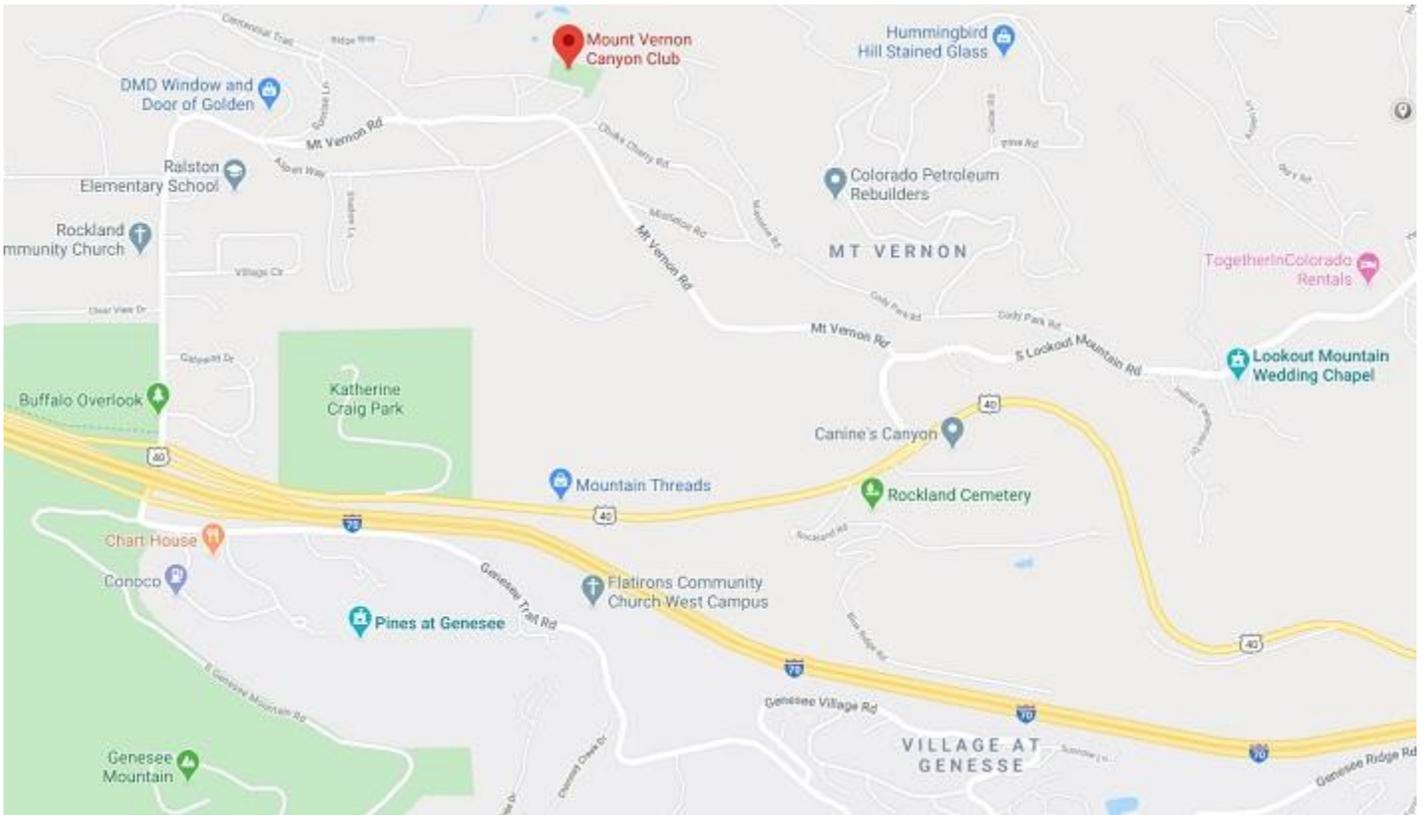
You are not required to purchase dinner in order to attend the presentation.

Mount Vernon Canyon Club

24933 Clubhouse Circle

Golden, CO 80401

Formerly named The Mount Vernon Country Club, it is southwest of Lookout Mountain off of I-70.



Mount Vernon Canyon Club off I-70 at Genesee Park Exit 254
[Open Mount Vernon Canyon Club on Google maps](#)



Aspen room

Dinner Buffet Menu

\$65 regular

\$30 students

Salads

- Mixed Green Salad [GF]: mixed greens, blue cheese crumbles, granny smith apples, and pecans served with maple vinaigrette dressing

- Peach Panzanella Salad: Palisade peaches, raspberries, grilled ciabatta, arugula, Bermuda onion and mascarpone cheese

Entrées

- Colorado Pan Seared Chicken [GF]: poblano sauce, corn relish
- Figgy Piggy [GF]: grilled pork tenderloin, spiced fig glaze and orange supremes

[Vegetarian entrées on request: *Roasted vegetable risotto; Israeli couscous; Orecchiette pasta*]

Sides

- Rosemary roasted red bliss potatoes [GF]
- Bistro seasonal vegetables [GF]
- Rolls with butter
- Complementary Coffee, Tea, and Iced tea

Dessert

Iced cupcakes with filling

Cash Bar

Make Your Reservation and Payment –

Online or by Check via US Mail

Online Registration and Payment via PayPal

Please make online reservations by September 15th.

[Make an online reservation for CSS Past Presidents' Dinner.](#)

Registration by US Mail for CSS Past President's Dinner

Reservation Form for CSS Past Presidents' Dinner:

[2025 CSS Past Presidents Dinner reservation form](#) (PDF)

Payment can be made with a personal check payable to “Colorado Scientific Society.”

Mail your reservation form (last page of the PDF) and payment to:

Colorado Scientific Society

PO Box 150495,

Lakewood, Colorado 80215-0495

If you are mailing a check in for payment, please also send James Paces, our Treasurer, an email at [**jpaces.css@gmail.com**](mailto:jpaces.css@gmail.com) so we can update our count of reservations without having to check the Post Office Box every day.

Please send in reservations by US Mail by Monday, September 9th.

Past Presidents at the 2022 Past Presidents Dinner

from bottom left: Lisa Fisher 2011, Marith Reheis 2017, Barney Poole 1990, Jim Cappa 2003; second row: Ned Sterne 2022, Karl Kellogg 1997, Cal Ruleman 2023, Pete Modreski 2012; third row: Bob Reynolds 2018, Bill Nesse 2007, Jim Paces 2020; fourth row: Matt Sares 2013, Scott Minor 2010, Tom Casadevall 2019

South Park

2025 Fall Field Trip by the Colorado Scientific Society

Saturday, September 20, 2025

Peter Barkmann, Ned Sterne and Cal Ruleman will lead this trip.

Please join us for the Fall 2025 CSS field trip. This one-day field trip will visit locations where we will examine how Paleozoic, Mesozoic, and Cenozoic strata record the tectonic signatures of at least three orogenic episodes and present a stratigraphic and structural framework that can be applied in many regions across the Intermountain West and Rocky Mountain region. We will cross the Elkhorn–Williams Range thrust system into the structural block caught between Laramide uplifts of the Front Range and Sawatch Anticlinorium, and visit preserved synorogenic sediments from the Pennsylvanian–Permian ancestral Rocky Mountain tectonic episode. We will visit Late Cretaceous marine sediments from the Western Interior Seaway caught up in complex fold-fault structures between Laramide uplifts create targets for petroleum exploration. We will look at Neogene extensional faulting and evaporitic tectonism originating from Pennsylvanian evaporite deposits. Spectacular

glacial and glaciofluvial geomorphology and timing of Pleistocene glacial intervals will be discussed. Lastly, we will look at cross-cutting relationships between Laramide reverse faults and Neogene extensional normal faulting across the region.

We will depart from the Dinosaur Park-N-Ride at 7:30 am on Saturday, Sept. 20, 2025.

[Dinosaur Park-n-Ride](#) on Google Maps

Please bring a sack lunch and beverages. We plan on all attendees to coordinate carpooling from the meeting area.

Please contact Cal Ruleman at cruleman@usgs.gov to sign up for this event.

[CSS South Park field trip, September 20 2025 Announcement](#) (PDF)

CSS October Meeting – Details to come

Thursday, October 16, 2025

Joel Gratz, Open Snow

Open Snow is a weather forecasting and snow conditions information service.

In-person Meeting at Golden Calvary Church

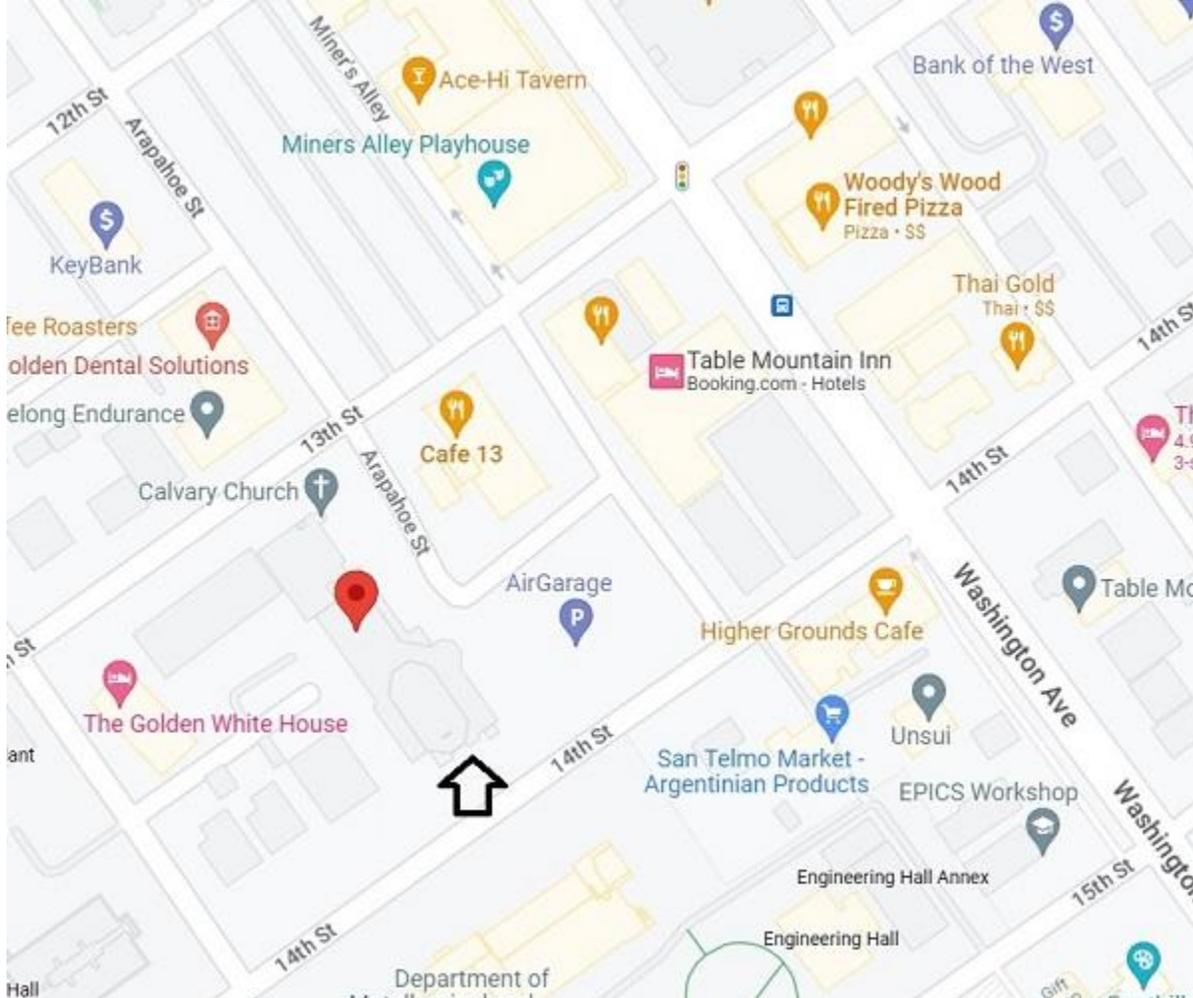
All are welcome – no admission charge

6:30 pm – Social time begins at Golden Calvary Episcopal Church. 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.**



Golden. Enter at arrow on map.

Calvary Church in

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

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

**CSS November Meeting – Posters and Lightning Talks by Early Career and Student Earth Scientists
Thursday, November 20, 2025**

CSS December Potluck, Business Meeting, and 2025 President’s Address

Whiskeytown boulder sampling to elucidate wildfire history and role in debris flows using luminescence

Tuesday, December 2, 2025

Shannon Mahan, U. S. Geological Survey

At New Terrain Brewing Company, Golden, CO



Please pay your CSS dues for 2025!

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!

New and renewal memberships in November and December are also good for the next year.

[Read past Colorado Scientific Society Newsletters](#)

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

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

Coming Earth Science Events, 2025, updated 8/28/2025, Colorado Scientific Society and otherwise:

Events at Colorado School of Mines Geology Museum, 1310 Maple St. Golden:

Fri. Sept. 5, 6-9 p.m., Mines Museum Annual Open House:

- ◆ Explore our world-class collection of gems, minerals, and fossils - including our newest special exhibit, "Treasures Through Her Eyes - A Celebration of Women's Collections".
- ◆ Meet our amazing staff and volunteers who bring Earth science to life every day.
- ◆ Enjoy passed hors d'Oeuvres and a cash bar.
- ◆ A chance to celebrate our community, collectors, and supporters who make the museum thrive.

“This event is free and open to the public — 21+ only. Bring your friends and curiosity for an evening of exploration and celebration. Whether you’re a long-time supporter or a first-time visitor, there’s something here for everyone.”

The next Free Mines Museum Mineral ID Day will be on Saturday, Nov. 15, 1-4 p.m.

Museum website: <https://www.mines.edu/museumofearthscience/>. Other information also on facebook at <https://www.facebook.com/MinesMuseum>.

Sep. 1-6 (Mon.-Sat.), "Just Minerals and Crystals" Show, Doubletree Inn, Thornton, 83 E. 120th Ave., 10 a.m.-6 p.m.

Thurs.-Sun., Sept. 4-7, Denver Gem and Mineral Show, Westin Westminster Hotel, Westminster, CO. The “original”, 57th annual, Denver Gem and Mineral Show, sponsored by 7 clubs belonging to the Greater Denver Area Gem and Mineral Council. Dealers, special exhibits, fluorescent room, speakers, club demonstrations, free rock & mineral identification. The show and exhibits theme is “Worldwide Barite and Calcite”. See <https://www.denvermineralshow.com>. Held in conjunction with the Hardrock Summit Gem, Mineral, Jewelry, and Fossil Show.

Sept. 4-7 + Sept. 4-12, Hardrock Summit Gem, Mineral, Jewelry, and Fossil Show, Westin Westminster Hotel, Westminster, CO. Dealers, exhibits, lectures; a part of the show is a wholesale-only trade show. Indoor show in the hotel, Sept. 4-7; outdoor show in tent pavilions continues Sept. 4-12. See <https://hardrocksummit.com>.

Sept. 5-13, Colorado Mineral and Fossil Fall Show, Delta Hotels Denver, 10 E 120th Ave., Northglenn, CO. See RMGM Promotions, <https://www.coloradomineralandfossilshows.com> .

Sept. 5-14, Colorado Mineral, Fossil, Gem and Jewelry Show, at the National Western Complex and Denver Coliseum, Denver, CO. See <https://denver.show> .

Thurs., Sept. 18, “Tarryall Valley: Gold, Glaciers, and Giants”, by Mark Hanson. Colorado Scientific Society annual Past Presidents’ Dinner Meeting, at the Mount Vernon Canyon Club, Golden, CO. All are welcome to attend; reservations will be required. Details are above, and at www.coloradoscience.org . Mark Hanson is a geologist, historian, and author of the upcoming book *Tarryall Gold: From Rush to Hush*. He profiles the miners, mines, cabins, and their resulting patina on today’s Tarryall Valley. A resident and owner of several patented gold claims, Mark peels back 160 years of rust and reforestation to reveal a time capsule showcasing yesterday’s rush, and today’s hush.

Sat., Sept. 20, CSS Fall Field Trip, South Park, led by Peter Barkman, Ned Sterne, and Cal Ruleman. See the details on a page above.

Sat.-Sun., Sept. 20-21, Grand Junction Gem & Mineral Club, Fall Rock Show; at Mesa County Fairgrounds, Grand Junction, CO.

Thurs., Oct. 16, CSS meeting, **“Open Snow”** by Joel Gratz.

Thurs., Nov. 20, CSS meeting, **Posters and lightning talks by early career and student earth scientists.**

Tues., Dec. 2, CSS December Potluck, Annual Meeting, and 2025 President’s Address: **“Whiskeytown boulder sampling to elucidate wildfire history and role in debris flows using luminescence”**, by CSS President Shannon Mahan, U.S. Geological Survey. At New Terrain Brewing Co., Golden, CO.