



Colorado Springs Mineralogical Society

Founded 1936
~ Lazard Cahn ~
Honorary President
"Pick & Pack"
Volume 63 No. 5
June 2023

CSMS General Assembly

Thursday, June 15, 2023 7:00 PM
Mt. Carmel Veterans Center

Program Speaker:

~ Rick Sauers ~

Curator, Western Museum of Mining and Industry

M-Z BRING SNACKS

Club members are encouraged to bring specimens to general assembly to share and/ or for help with identification

In case of inclement weather please call Mt. Carmel
Veteran's Service Center 719-309-4714

In This Issue ...

Business/ Upcoming Events	2 - 5
Article - M. Nelson, <i>Denver Show and Ettringite in Your Driveway</i>	6 - 9
Field trip report - Rocky Mtn High	10
Article - Editor's Choice: Sawyer Blizzard, "Rock" Star	11 - 14
Article Reprint - Lily Strange, <i>Crystal City</i>	15 - 17
Pebble Pups	19
Report: General Assembly	20
Classifieds and Announcements	21
Reprint - <i>Pick & Pack</i> (May 1969)	22

Rick Sauers - Some of the Hidden History of Cripple Creek



Rick Sauers, Curator, WMMI. Photo Credit: wmmi.org

A native of Lewisburg, Richard A. Sauers received his B.A. in history from Susquehanna University, and both his M.A. and Ph.D. in history from The Pennsylvania State University. Sauers is the author of more than two dozen books, including the highly-acclaimed two-volume *Advance the Colors! Pennsylvania Civil War Battle Flags* (1987-1991), *A Succession of Honorable Victories: The Burnside Expedition in North Carolina* (1996), *Meade: Victor of Gettysburg* (2004), *America's Battlegrounds* (2005), and *The Fishing Creek Confederacy: A Story of Civil War Draft Resistance* (2013). Sauers has been in the public history arena since 1984, currently serving as the curator of the Western Museum of Mining and Industry in Colorado Springs. Sauers has been a speaker at many historical organizations and conferences, and was honored to be a part of the 1996 conference that developed a conservation plan for the Star-Spangled Banner.

Sauers will speak to the CSMS General Assembly at Mt. Carmel Veterans Center on Thursday, June 15, 2023. He is working on what will be the first documented, footnoted study of the Cripple Creek Mining District and his talk will feature some of his current research.

COLORADO SPRINGS MINERALOGICAL SOCIETY PO BOX 2 COLORADO SPRINGS, COLORADO 80901-0002
Visit our website: <http://www.csms1936.com/>

CSMS Group Calendar

Jun '23	Jul '23						
14 Jun	12 Jul	Fossil Group	2nd Wed	6:00 PM	East Library Annex	Kristine Harris Richard Villareal	719-593-1524 831-760-6985
1 Jun	6 Jul	Board Meeting	1st Thur	6:00 PM	Zoom	John Massie	719-338-4276
6 Jun	11 Jul	Pebble Pups	1st Tue	4:15 PM	East Library	David St. John	719-424-9852
15 Jun	20 Jul	General Assy	3rd Thur	7:00 PM	Mt. Carmel Center	John Massie	719-338-4276
22 Jun	27 Jul	Crystal Group	4th Thur	7:00 PM	Mt. Carmel Center	Kevin Witte	719-638-7919
By appt	By appt	Faceting Group	By appt	By appt		John Massie	719-338-4276
By appt	By appt	Lapidary Group	By appt	By appt	Sharon's House	Sharon Holte	719-217-5683

Community Events (Pete Modreski)

June 9-11: Pikes Peak Gem, Mineral and Jewelry Show, Norris Penrose Event Center, 1045 Lower Gold Camp Road, Colorado Springs. Fri. Noon-7:00 PM, Sat. 10-5, Sun. 10-4. Set up on the 8th. Admission \$5 per day, \$8 for multiple days, 12 and under free. Sponsored by the Colorado Springs Mineralogical Society. World's best gem show.

Jun 19: 2:00-3:00 PM, Denver Museum of Nature & Science, Earth Science Colloquium, "Linked Ecologies: Connecting invisible pasts and actionable futures," by Anshuman Swain (Harvard). In the VIP Room. Enter through the staff/volunteer entrance.

Jul 13: 2:00-3:00 PM, Denver Museum of Nature & Science, Earth Science Colloquium, "Usurpers and insinulators: Competition and environmental change in the Great American Biotic Interchange in mammals," by Marie Hoerner (CU - Colorado Springs). In the VIP Room. Enter through the staff/volunteer entrance.

Aug 24: 2:00-3:00 PM, Denver Museum of Nature & Science, Earth Science Colloquium, "Mass extinctions and high resolution astrochronology in the Upper Devonian: Tales from New York and Colorado," by Jeff Over (SUNY Geneseo). In the VIP Room. Enter through the staff/volunteer entrance.

Oct 10: 2:00-3:00 PM, Denver Museum of Nature & Science, Earth Science Colloquium, "To Xiphactinus and beyond: The savage seas of ancient Kansas," by Anthony Maltese (Rocky Mountain Dinosaur Resource Center). In the VIP Room. Enter through the staff/volunteer entrance.

Nov 6: 2:00-3:00 PM, Denver Museum of Nature & Science, Earth Science Colloquium, "Our Earth was completely frozen? Twice?," by Carol Dehler (Utah State U.). In the VIP Room. Enter through the staff/volunteer entrance.



Finding Balance

by David St John

A rock and a hard place
I wish I had a brace
So I can keep this beauty standing tall
Mother Nature will decide when she will fall
I may be the last to see her intact
The Earth recycles and that's a fact

Photo: Ahodges7 with permission at Wikimedia Commons; photo was cropped by the editor.
https://commons.wikimedia.org/wiki/File:Balance_Rock,_Garden_of_the_Gods,_CO.jpg



Federation News Post

American Federation of Mineralogical Societies
Rocky Mountain Federation of Mineralogical Societies



AFMS ENDOWMENT FUND

by Richard Jaeger

I am the Rocky Mountain Federation Regional Chairman for the AFMS Endowment Fund. Cheryl Neary, a member of the Eastern Federation, is the AFMS Endowment Fund Chair and the AFMS Central Office Administrator.

Basically, this is a raffle drawing with tickets being sold at \$5 each or five tickets for \$20. The drawing will be held at the NFMS/AFMS Convention in Billings, Montana in August. People from around the American Federation donate prizes for the raffle, which may be jewelry, crystals, minerals, fossils, books, or other items, each valued from \$75 to \$200. The drawing is handled so there is at least one winner from each of the seven regional federations; last year we had five winners from the Rocky Mountain Federation. We usually have about three or four winners from the RMFMS.

As items are donated, pictures of them will appear in the AFMS Newsletter and on the American Federation Website, <amfed.org>. There are usually around 30 items.

This is a major way to financially support the American Federation's efforts on behalf of our hobby. Currently the funds go towards the Junior Rockhound Program, Judges Training, and preparing Programs for distribution to Regional Federations (programs that can be used by individual clubs). Over \$5,000 was raised last year.

Purchasing the tickets: Cheryl requests that your checks for tickets be sent to the regional chairs (for RMFMS, send to Richard Jaeger, 3515 E. 88th St., Tulsa, OK 74137) so we can issue tickets and have a record of who has entered. Checks should be made payable to the "AFMS Endowment Fund."

We then forward those checks to Pat LaRue, the AFMS Treasurer. I will fill out the proper number of tickets for each contribution, send the stubs to the donating individual, and get the tickets to the NFMS/AFMS Show in Billings in August to be put into the RMFMS bag. There will be at least one general prize ticket, maybe two or three, drawn from each of the bags for the seven regional federations. After that, all tickets will be dumped into one bag, and further drawings will take place until all the prizes have been awarded.

I hope that many of you will participate and hopefully be winners in Billings. You need not be present to win. I would also be happy to accept any donated prizes for the raffle or they can be sent directly to Cheryl Neary; the more prizes, the more winners, and hopefully, more money raised. Cheryl's address is: 42 Jefferson Ave., Patchogue, NY 11772. My wife and I are each donating a piece of jewelry for Endowment Fund prizes. My contact information is provided below. Please share this information with your club members and thanks for your consideration.

Please purchase some tickets – and hopefully get your ticket drawn in Billings in August.

Richard D. Jaeger
3515 E. 88th St.
Tulsa, OK 74137-2602
918-481-0249 RjgrSci@aol.com

About the AFMS - A non-profit educational federation of seven similar regional organizations of gem, mineral and lapidary societies. The purpose of AFMS is to promote popular interest and education in the various Earth Sciences, and in particular the subjects of Geology, Mineralogy, Paleontology, Lapidary and other related subjects, and to sponsor and provide means of coordinating the work and efforts of all persons and groups interested therein; to sponsor and encourage the formation and international development of Societies and Regional Federations and by and through such means to strive toward greater international good will and fellowship. Founded in 1947.

About the RMFMS - A non-profit educational organization. The purpose of the Rocky Mountain Federation is to have a close association of all clubs in the Society to promote the study of earth sciences, including the lapidary arts, the study of fossils and paleontology, and related crafts. The RMFMS was organized in 1941, and held its first annual convention at the Argonaut Hotel in Denver, Colorado. There were 16 organizations in attendance. The RMFMS became one of the original four founders of the American Federation of Mineralogical Societies when it was organized in 1947.

President's Corner

John Massie
CSMS President



2023 Satellite Group Chairs

Kevin Witte/ Bob Germano, Crystals
John Massie/ Bertha Medina, Faceting
K. Harris/ R. Villareal, Fossils
Vacant, Jewelry
Sharon Holte, Lapidary
Vacant, Micro-mount
Vacant, Photography
David St. John Pebble Pups

2023 Liaisons

Florissant Fossil Beds National Monument:
S.W. Veatch
Western Museum of Mining and History:
S.W. Veatch



Presidential Matters



A message from CSMS President John Massie:

The Pikes Peak Gem, Mineral and Jewelry Show is this coming weekend. As a reminder we set up the Show Thursday the 8th and Friday Morning the 9th. The Show starts at 12:00 PM on the 9th and goes to 7 PM. Saturday the show goes from 10 AM to 5 PM on Saturday, and 10 AM to 4 PM on Sunday. We then tear down the show starting at 4 PM on Sunday.

I want to thank all the volunteers who signed up to help with the show. The show will start another great year for CSMS!

John Massie
CSMS President



20 hearty rock hounds gathered for a field trip to the New Hope amethyst claim in Cañon City, 27 May 23. They were led by Patrick Hale of the Cañon City club and Pueblo Rockhounds, as well as guide Kit.

Secretary's Spot

John McGrath

CSMS General Assembly Minutes

7 PM, Thursday 18 May 23, Mt Carmel Vet Center, Co Springs

2023 CSMS Officers

John Massie, President
Shane Riddle, Vice-President
John McGrath, Secretary
Ann Proctor, Treasurer
Adelaide Bahr, Membership Secretary
John Emery, Editor
Chris Burris, Member-at-Large
William Meyers, Member-at-Large
Sharon Holte, Past President

2023 CSMS Chairpersons

Rick Jackson, Program Coordinator
John Massie, Show Vol Coordinator
Kyle Atkinson, Field Trip Coordinator
Vacant, Science Fair Chair
Frank and Ellie Rosenberg, Librarians
Mark Schultz, Social Committee Chair
Ann Proctor, Store Keeper
Lisa Cooper, Show Chairman
Lisa Cooper, Webmaster
Lisa Cooper, Facebook Keeper
Mike Nelson, Federation Rep
Vacant, Federation Rep

Address: 530 Communications Circle, Colorado Springs CO 80905

Board Attendance: President: John Massie, Secretary: John McGrath, Member-at-large: Chris Burris, Member-at-Large: Bill Meyers, Editor: John Emery.

Agenda:

- I. Meeting was called to order by our President John Massie at 7:13 PM
- II. The Pledge of Allegiance was led by our President John Massie
- III. Introduction of Guests: None
- IV. Introduction of New Members: Shannon Atkinson, Wes Ziegler, Robyn Douty, Brenda Abke
- V. Program Speaker - Brian Busse
 - A. Speaking to us from Arizona via Zoom
 - B. Owner of the "Thank you Lord Aquamarine mine" on Mt Antero.
 - C. Described his philosophy of rock hunting and collecting
 - D. Marge and Brian shared some memories of rock hunting together
 - E. Brian described multiple locations to collect garnet, epidote
- VI. Meeting - There were 37 members/guests in attendance and 5 minerals were given out.
- VII. Officer Reports
 - A. President - John Massie
 1. Asked for volunteers for the Gem Show setup and ticket sales
 2. General Meeting Notes from April were approved by voice vote.
 3. Advised us on the General Meeting after the Mineral Show which would be focused on new members who sign up at the show
 - B. Vice - President - Shane Riddle, VP, absent
 - C. Treasurer Ann Proctor- absent
 - D. Secretary John McGrath - Present. No report.
 - E. Membership Secretary - Adelaide Bahr, absent
 - F. Editor - John Emery. Present, No Report
 - G. Members at Large
 1. Bill Myers - Present. No report
 2. Chris Burris - Present. No report

H. Past President - Sharon Holte, Absent

I. Website and Show Coordinator - Lisa Cooper, Absent

VIII. Satellite Groups

- A. Crystal Group - Kevin Witte present. Next meeting Thursday night at Mt Carmel at 7pm. Last meeting prior to the summer break.
- B. Faceting Group - John Massie reiterated that you only need to contact him to bring the machine to your house.
- C. Pebble Group -David St John, present, The Club will continue to meet at the East Library at 4:15 PM which parents have told him is the best time period. Meetings will continue throughout the Summer.
- D. Fossil Group -Kristine Harris and Richard Villareal stated that meetings are held the 2nd Wednesday of the month from 6-7:30 PM at the East Library Annex.
- E. Jewelry Group - still in need of a Chairperson
- F. Lapidary Group - Sharon Holte, absent, but John Massie reminded everyone that Sharon takes calls after 6:30 pm on Sunday or emails at anytime.

IX. Liaisons

- A. Claims -.Frank Rosenberg. Present. No Report.
- B. Field Trip Coordinator - Kyle Atkinson, Present. Field Trips are upcoming as listed in the Pick and Pack.
- C. Social Coordinator - Tina Cox, absent.
- D. Store Keeper - Ann Proctor. Absent.

X. Unfinished Business - None discussed.

XI. New Business - none.

XII. Meeting adjourned by President John Massie at 8:39 pm

Respectfully Submitted

John M McGrath MD COL (RET) USA

Denver Show and Ettringite in Your Driveway

Mike Nelson
csrockguy@yahoo.com



Ready for opening bell

I had the opportunity to attend for one day, a very loooong day, the Spring 2023 Denver show at the Crown Plaza DIA. My initial impressions were: 1) it was a very large show and I counted over 100 dealers; 2) prices continue to move upwards, just as groceries and my home

utility bills; 3) the Friday show attracted a large crowd; and 4) I saw CSMS dealers Austin with "assistant" Kevin, and Joe Dorris at their booths, and Leonard Himes from Monument was nearby.



Above: Hematite included quartz from Morocco, Dan & Barb Stephens. \$100. Photo: M. Nelson



Above: Boxes of attractive shattuckite, a copper silicate $[Cu_5(Si_2)_6(OH)_2]$ from Democratic Republic of Congo (boxes are labeled Zaire). Most are in the \$200 range. Photo: M. Nelson



Above: Dennis Beals of Colorado (Denver area and a friend of CSMS) had this beautiful specimen of calcite from Santa Eulalia, Mexico. Dennis is always good for a wild tale or two about his southern collecting trips. Photo: M. Nelson



Above: Binghamite is a lapidary term referring to a rock consisting of fibrous amphiboles intergrown with quartz. The amphiboles are mostly altered to a complex mix of quartz, siderite, and various iron and manganese oxides such as hematite and goethite. Rough material comes from the iron range mines in Crow Wing County, Minnesota. *Info from MinDat. Photo: M. Nelson*



Above: I always like polished labradorite with iridescent effects. Usually out of my price range! *Photo: M. Nelson*



Above: And if all those faceted gems and semi-gems did not get you excited, there were always magic minerals to peruse. External of the show one might be able to buy magic weed and perhaps scrounge up some magic shrooms — after all this is Colorado, a pretty magic place to live. Travelers, just remember to clean out your luggage before flying home. *Photo: M. Nelson*

Why Do You Want To Know?

I came home with only a few specimens from the Show, and one was a nicely colored group of hexagonal ettringite crystals $[\text{Ca}_6\text{Al}_2(\text{SO}_4)_3(\text{OH})_{12} \cdot 26\text{H}_2\text{O}]$. The question for this article then becomes, *Why Do You Want To Know about ettringite and other things?*

Ettringite is an interesting mineral, a hydrous calcium aluminum sulfate, and is somewhat confusing to me. At the Type Locality (TL) in Rhineland-Palatinate, Germany, ettringite crystals are tiny, hexagonal, gemmy clear, and many have nice terminations with rhombohedral faces—think quartz look-a-likes. A few are even very thin, white fibers. Crystals at the TL are associated with metamorphosed limestone.

Talk to a construction/economic/chemical mineralogist and they will tell you that ettringite is a “hexacalcium aluminum tri-

sulfate hydrate” that is formed in Portland cement as a result of the reaction of tricalcium aluminate (C_3A) with calcium sulfate ($CaSO_4$): $C_3A + 3 CaSO_4 \rightarrow$ ettringite (Merlini and others, 2008). Did you ever wonder why freshly poured concrete gets warm (one of life’s persistent questions)? The C_3A (calcium oxide mixing with aluminum oxide) hydration reaction is very exothermic and occurs quickly in the fresh concrete mix; the temperature increases with the fast progress of the reaction. The workers “in the know” (those cement chemists) then add gypsum [$CaSO_4 \cdot 2H_2O$] and other materials [perhaps heated (sintered) limestone, clay, fly ash, etc.] to the Portland cement and control the concrete setting. It seems like gypsum allows ettringite to coat the C_3A grains and slows down the hydration (Divet, 2000). WOW. I thought you simply added some sand and water to a bag of cement, mix, and presto with some time you get hard concrete! However, concrete chemistry is a very complex subject, way above my pay grade.



Above: Ettringite crystals formed in concrete. I am guessing this is a SEM photomicrograph with the longest crystal ~ 40 microns. Credit Farnam’s Research Group at Drexel University, Drexel Advanced and Sustainable Infrastructure Materials Lab for the photo. Published in *National Precast Concrete Association / Precast Magazines / Precast Inc. Magazine / 2018 – July-August*.

All of these ruminations on cement mixing bring back, from the far reaches of my mind,

some unpleasant memories of a 7:30 AM class on construction mineralogy (mainly taught to civil engineering students) or some such thing. Luckily, I was auditing the class and did not take the tests. That choice was a masterful stroke of genius on my part since I understood very little of what was going on, especially at 7:30 AM. And finally, don’t be confused with the chemistry as those pesky cement chemists use their own chemical notations such as $C = CaO$ or calcium oxide and $A = Al_2O_3$ or aluminum oxide!

I need to unpack some of that material from my mind and toss it in the garbage. But hold on—as a life-long learner I now know why concrete heats up when poured, and the need to spray water on fresh concrete to retard evaporation and slow down the hydration and produce stronger concrete. That little bit of learning eases my rumbling mind!!



Above: Crystals of tan to lemon-yellow ettringite. The dark (black) mineral is some sort of manganese oxide, probably manganite [$Mn^{3+}O(OH)$] while the chalky white mineral is most likely oyelite [$Ca_{10}Si_8B_2O_{29} \cdot 12.5H_2O$]. Width FOV top ~1.6 cm, middle ~1.7 cm, bottom ~6 mm. Photos: M. Nelson.

All of this chatter leads me back to ettringite from the Denver show. Many rockhounds have nice yellow to lemon-yellow ettringite crystals in their collection and would not recognize minerals from the Type Locality nor realize that their sidewalk probably has tiny ettringite crystals. Almost all collectable ettringite crystals come from the Kalahari Manganese Field in the northern Cape Province, South Africa, especially from the N'Chwaning Mines and some from the Wessels Mine. These mines were not really operational until the 1970s and 1980s; therefore, the great mineral specimens from the mines only appeared on the market in the last 50 years or so. MinDat noted that “apart from their ore-producing significance [manganese], the N'Chwaning mines are notable and famous among the mineral collecting community for producing high-quality mineral specimens of rhodochrosite, manganite, *ettringite*, inesite, jouravskite and other minerals. The majority of the major mineral finds documented originate from the N'Chwaning II shaft [production started in 1981]... The manganese ores of the Kalahari Manganese Field are contained within sediments of the Hotazel Formation of the Griqualand West Sequence, a subdivision of the Proterozoic Transvaal Supergroup.” These late discoveries explain why my favorite mineral book, *Encyclopedia of Minerals* (Roberts and others, 1974), does not mention the Kalahari ettringite.

So, to answer the question posed earlier, I “want to know” about virtually anything since it gives me a purpose in life. It makes my life worthwhile. It is what gets me up in the morning. It keeps me healthy, happy, and hopefully creative. It pumps up my mojo.

References Cited

Divet, Loïc, 2000, State of knowledge on the possible causes of sulfate reactions internal to concrete: Bulletin de Liaison des Laboratoires des Ponts et Chaussées, Number 227.

Merlini, M., G. Artioli, T. Cerulli, F. Cella, and A. Bravo, 2008, Tricalcium aluminate hydration in additivated systems. A crystallographic study by SR-XRPD: Cement and Concrete Research, Elsevier vol. 38, no. 4.

Roberts, W.L., G.R. Rapp, Jr., and J. Weber, 1974, *Encyclopedia of Minerals*: Van Nostrand Reinhold Company, New York.

About the Author



Mike is a former University professor and administrator who enjoys outdoor activities, and writing articles for the Pick & Pack, other rock and mineral clubs, and the Newsletter of the Rocky Mountain Federation of Mineralogical Societies (www.rmfmms.org). He also writes, and occasionally

speaks, about members of the Colorado Cavalry/Infantry who participated in the march to Glorieta Pass (1862), helped settle central Kansas (1865), and later fought at Beecher Island (1868). In CSMS he heads up the Undergraduate Research Committee as introducing students to geology research is a long-time passion. But mostly he just tries to enjoy life with frosty IPAs, travel, and collecting mundane facts and pretty rocks/minerals.



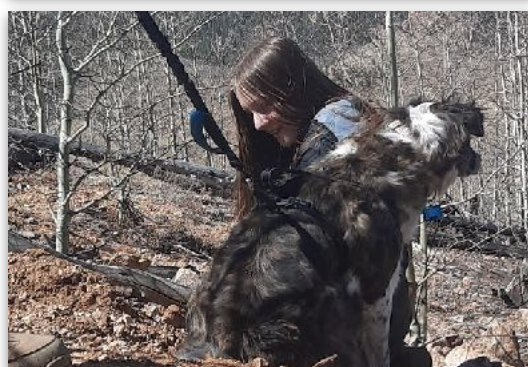
REPORT

Rocky Mtn High 6 May 23

18 mostly new, but hearty rockhounds gathered atop the Rocky Mountain High claims with CSMS field trip leader Kyle Atkinson (super bright green/yellow shirt) in search of smokies and amazonite.

Kyle reports the trip went well on a beautiful sunlit Colorado day. The pictured sunlit smokie was found by Kyle.

Photos: Kyle Atkinson



Editor's Choice: Sawyer Blizzard "Rock" Star

Editor's note - this special feature documents the highlights of a junior geologist's rigorous endeavors - Sawyer Blizzard.



Meet Sawyer Blizzard, Rock Star. At age 16, Sawyer is a junior member of the Colorado Springs Mineralogical Society (CSMS) and its Fossil Group, led by Kristine Harris and Richard Villarreal, previously by Jerry

Suchan (April 7, 1944 – December 26, 2022). He has also been studying under the tutelage of long time (1965) CSMS member and geologist Steven Wade Veatch the past 10 months (starting Aug 2022). The studies have been focused and intense, requiring serious dedication to continual learning, including writing scholarly papers. Here's the curriculum he's been working on.

August 8, 2022: 3:00 PM to 3:45 PM MT

- Paleontology of the Pikes Peak area
- Assignment: short research paper on *Theiophytalia kerri*

August 15, 2022: 2:30 PM to 3:10 PM MT

- Lesson on basic paleontology
- Review research paper on *Theiophytalia kerri*

August 22, 2022: 2:30 PM to 3:10 PM MT

- Lesson on basic paleontology (continued)
- Review research paper on *Theiophytalia kerri*

August 28, 2022: 2:30 pm to 3:10 pm MT

- Lesson on advanced research methods
- Lesson on Google Scholar and Google Books
- Research on Lytle Formation
 - Discussion (email) with Vince Matthews, former Colorado State Geologist
 - Discussion (email) with James Hagadorn, Denver Museum of Nature

September 5, 2022: 2:30 PM to 3:10 PM MT

- Lesson on fossil preservation
- Lesson on fossil labels
- Email discussion on myFossil project and database
- Email discussion and video on how to make tables in Google Docs
- Review paper he was assigned: *Theiophytalia kerri*
- Assigned to write a poem for National Fossil Day in October.
- Arranged for Sawyer to be a presenter at the National Fossil Day event at Garden of the Gods

September 12, 2022 2:30 PM to 3:10 PM MT

- Review of dinosaur paleontology
- PowerPoint on fossils

September 26, 2022 2:30 PM to 3:10 PM MT

- Natural History of dinosaurs PowerPoint
- More on how to label fossils
- Review paper he was assigned: *Theiophytalia kerri*
- Sent Sawyer an electronic fossil collection catalog

October 3, 2022 2:30 PM to 3:10 PM MT

- Reviewed how to make a PowerPoint
- Studied Ice Age paleontology and geology
- Review paper he was assigned: *Theiophytalia kerri*

October 10, 2022 2:30 PM to 3:10 PM MT

- Presentation: History of Life by the University of Bristol.
- Review paper he was assigned: *Theiophytalia kerri*

October 17, 2022 2:30 PM to 3:10 PM MT

- Presentation: Field paleontology
- Review paper he was assigned: *Theiophytalia kerri*

October 24, 2022 2:30 PM to 3:10 PM MT

- Presentation: Laboratory methods in paleontology
- Review paper he was assigned: *Theiophytalia kerri*

October 31, 2022 2:30 PM to 3:10 PM MT

- Review field and lab methods in paleontology
- Video on field methods
- Video of lab methods
- Discussion of next project

November 7, 2022 2:30 PM to 3:10 PM MT

- Review on Google Scholar and research methods
- Selected topic for new research paper
- Searched for *Concavenator* thesis
- Discussed Purgatoire River trackway

November 14, 2022 2:30 PM to 3:10 PM MT

- Worked on scientific writing styles
- Worked on referencing papers

November 21, 2022 2:30 PM to 3:10 PM MT

- Review

November 28, 2022 2:30 PM to 3:10 PM MT

- Worked on writing and research

Above, next column, and next page: Sawyer's curriculum under the mentorship of CSMS member and geologist Steven Wade Veatch.

December 5, 2022 2:30 PM to 3:10 PM MT

- Discussed MS Word's insert citation method
- Discussed revision processes
- Discussed Sawyer's paper on *Concavenator*

December 12, 2022 2:30 PM to 3:10 PM MT

- College lecture *The Suarichia* (Mccalester College St Paul, Minnesota)

December 19, 2022 2:30 PM to 3:10 PM MT

- College lecture *The Ornithischia* (Mccalester College St Paul, Minnesota)

December 26, 2022 2:30 PM to 3:10 PM MT

- College lecture *How Rocks Reveal Dinosaur Secrets* (Mccalester College St Paul, Minnesota)

January 2, 2023 2:30 PM to 3:10 PM MT

- College lecture *A Dinosaur Mystery in Madagascar* (Mccalester College St Paul, Minnesota)

January 9, 2023 2:30 PM to 3:10 PM MT

- Review how to organize science writing
- Tips on writing science papers
- College lecture *Tracing the Dinosaur Evolutionary Tree* (Mccalester College St Paul, Minnesota)

January 16, 2023 2:30 PM to 3:10 PM MT

- College lecture *Birds and Dinosaurs* (Mccalester College St Paul, Minnesota)
- Received *Concavenator* paper from Sawyer for my editing
- Sawyer's paper (*Theiophytalia*) published by *Ute County News* Jan 1, 2023

January 23, 2023 2:30 PM to 3:10 PM MT

- College lecture *Dissecting a T. rex* (Mccalester College St Paul, Minnesota)

January 30, 2023

- College lecture *How Did Dinosaurs Get So Big?* (Mccalester College St Paul, Minnesota)
- College lecture *Were Dinosaurs Warm Blooded?* (Mccalester College St Paul, Minnesota)
- Discussed Sawyer's new paper.

February 6, 2023

- College lecture: *The Eaters and the Eaten in the Age of Dinosaurs* (Mccalester College St Paul, Minnesota)
- Reviewed Sawyer's project

February 13, 2023

- Discussion on dinosaur pathology
- Reviewed Sawyer's project

Above, next column: Sawyer's curriculum under the mentorship of CSMS member and geologist Steven Wade Veatch.

February 20, 2023

- College lecture *What Did T. rex Taste Like?* (Mccalester College St Paul, Minnesota)

February 27, 2023

- No meeting, Sawyer on a field trip (Glen Rose Formation)

March 6, 2023

- College lecture *The Tough Lives of Allosaurus and T. rex.* (Mccalester College St Paul, Minnesota)
- General discussion of fossils and Sawyer's fieldtrip to the Glen Rose Formation.

March 20, 2023

- College lecture *Dinosaur Eggs and Babies.* (Mccalester College St Paul, Minnesota)
- College lecture *How Dinosaurs Conquered the Cold* (Mccalester College St Paul, Minnesota)
- Sent amber specimens for Sawyer to study. Cretaceous age.

March 27, 2023

- Discussion of making a science resume for Sawyer
- Discussion of a new research project
- Fieldtrip planning for June
- Sent field guide to Shelf Road
- Discussion of Sawyer presenting a paper to practice public speaking.
- Viewed BLM videos of Garden Park

April 3, 2023

- College lecture *The Extinction that Ended the Dinosaurs.* (Mccalester College St Paul, Minnesota)
- Discussion of scientific illustration

April 10, 2023

- No Class

April 17, 2023

- College lecture *Dinosaur Resurrection.* (Mccalester College St Paul, Minnesota)
- College lecture *Introduction to Paleontology: History on a Geologic Scale* (University of British Columbia)
- Sent two certificates of training: Introduction to Earth Science and Rediscovering the Age of Dinosaurs
- Discussion of scientific illustration continued.

April 24, 2023

- College lecture: *Introduction to Paleontology: Life Cast in Ancient Stone* (University of British Columbia)
- Discussion of Sawyer doing an oral presentation with me at the Pillar Institute of Lifelong Learning in Colorado Springs.

May 1, 2023

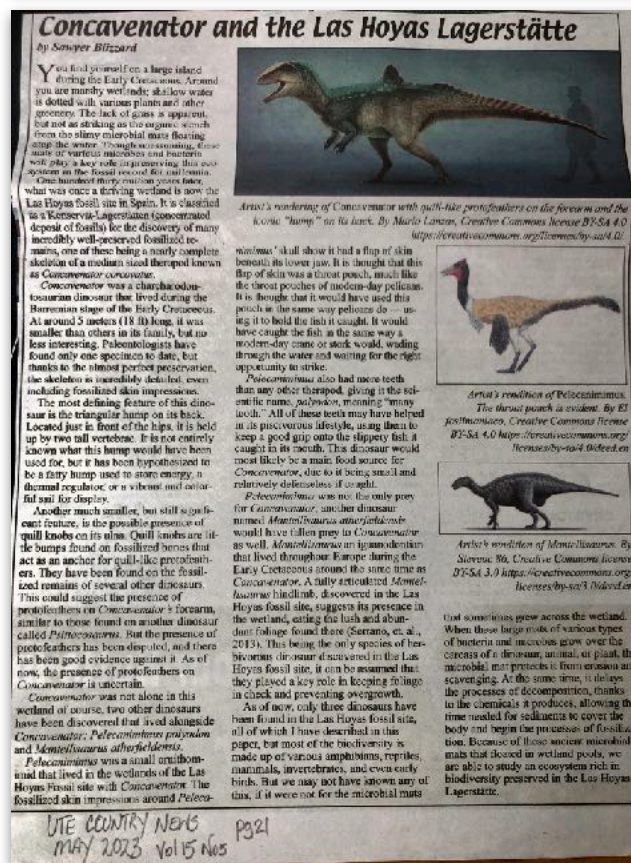
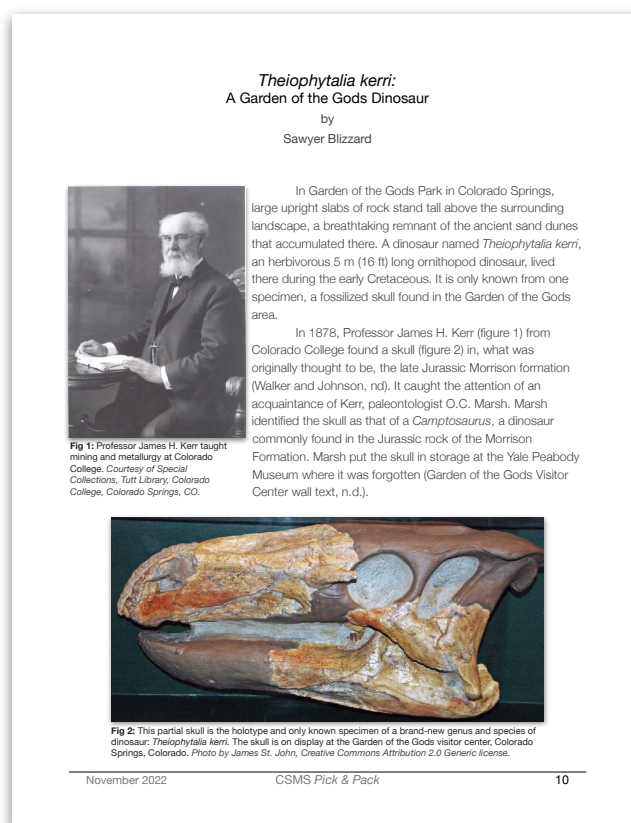
- College lecture: *Introduction to Paleontology: Life Cast in Ancient Stone* (University of British Columbia)
- College lecture: *Introduction to Paleontology: Tools of the Paleontological Trade* (University of British Columbia)

All this culminated in the completion of two 20-hour (each) courses: "Introduction to Earth Science" and a college level course, "Rediscovering the Age of Dinosaurs."



Sawyer has written two papers for publication. One was titled, *Theiophytalia kerri*: A Garden of the Gods Dinosaur about a dinosaur skull found at Garden of the Gods and the other was titled, *Concavenator and the Las Hoyas Lagerstätte*, about fossilized *Concavenator* remains found at the Las Hoyas fossil site in Spain.

Both articles have been published in a newspaper called *Ute Country News*, which circulates in Teller, Park, Fremont, and El Paso Counties, as well as in our very own great CSMS *Pick & Pack* newsletter (#1 in the region 2 years running!). One of the articles was also published by the Western Interior Paleontological Society.



Above: Snippets of Sawyer's papers published in the *Pick & Pack* and in the *Ute Country News*. Photo by Steven W. Veatch.

CSMS members voted Sawyer “Junior Rockhound of the Year” for 2022, citing, “...earnest and spirited efforts in applying himself to a rigorous course of study with geologist and club member Steven Wade Veatch. He has been disciplined in learning writing and research skills in paleontology and historical geology. Sawyer volunteered for Fossil Day at Garden of the Gods this year and wrote a paper titled, “*Theiophytalia kerri: A Garden of the Gods Dinosaur*,” published in this very issue of the Pick & Pack. Sawyer Blizzard is a scholarly inspiration to his fellow pebble pups.”

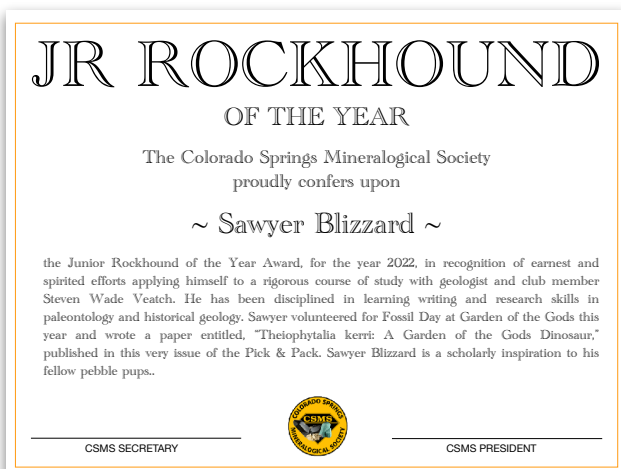
This month, Sawyer will spend a day in the field with Steven, learning paleontological field methods and other techniques. Happy hunting!

Congratulations to Steven and Sawyer for so much hard work accomplished while simultaneously in service to the community. Rock on!



About Steven: Steven is a geologist who joined the CSMS when he was 10, in 1965. The club met at that time at the old IBEW hall near the west side of the city. His complete profile is available at:

<https://www.blogger.com/profile/>



Above: Sawyer supporting National Fossil Day with the CSMS Pebble Pups at Garden of the Gods, 15 Oct 22. Photo by David St. John.

Crystal City

Lily Strange

strange.lily@gmail.com

*Editor's note: this article is re-printed with permission from the author, Lily Strange. The additional editor's note that follows accompanied the original publication in **Mineral News**, Vol. 39, No. 4, April 2023.*

(A short time ago, a new collector walked into Excalibur, asking questions about collecting, specimens, values etc. Sensing some great enthusiasm, I answered as best I could and offered some encouragement. Several visits later, I asked if she would write an article about her new-found obsession, and her delightful story of her exploits in the woods of Rappahannock County, Virginia follows. — Editor)

This past winter I had become almost foreign to myself. I was hiding things from my husband, I was neglecting my household duties and physical appearance. Things I used to be so mindful of didn't seem to matter. I felt like I was almost living a double life, and at the same time, I couldn't remember being that alive in a very long time.

I asked for this though, I wanted this, I *needed* this. Two months of being sick had taken a toll on my mental health, and although I was feeling better physically, I still felt stuck. I was looking for a sign, a distraction... I was looking for something to unstick me.

I started with the woods; well actually, I started with several non-winning lottery tickets and *then* the woods. I wasn't necessarily expecting anything tangible from the woods, just generally some clarity and direction, maybe a revelation if I was lucky.

I'm not sure how long I was there that day, but I quickly got lost in introspection and interpretation, trying to read every bird call or fallen tree as a meaningful message. I didn't notice the time, and the sun was setting. Far from home, I took a shortcut, a fateful shortcut. Within a minute of taking this shortcut, there it was, my sign in the form of what looked like quartz crystals, like a vein of quartz crystals in a much larger rock (see figure 1 next column). They looked like teeth, beautiful and sparkly teeth. I felt euphoric, giddy and I didn't even really know what I was looking at. I could feel it though, I was back. I *had* won the lottery.

On my way home, I formulated a plan: I'd dig deeper and around the rock to, of course, uncover incredibly valuable crystals; I'd haul them home, clean them up, find a reputable dealer, and start my crystal empire. I had big hopes for what I coined 'Crystal City,' despite not knowing very much at all about geology or the value of rocks/minerals. In my head my naïveté didn't matter;



Figure 1 — The giant rock and it's quartz seam that started it all. Author's image.

I was blinded by excitement. A part of me wanted to tell everyone I knew, but I decided that I'd figure out what I was really doing before going too public; and in a way, I liked the idea that I had this thing, this rock, that was all mine to explore, like I had a secret.

The following day, excavation began. I wasn't expecting to spend so much time there, maybe an hour or two for a week, but within minutes of excavating, plans changed. And for one month, I went there most days and for most daylight hours. When I wasn't digging, moving crystals, or cleaning them, I was day-dreaming of their potential. I fell in love with them all; each one was unique, special for its own specific qualities, and some I even named. While I was there, I was so focused and present. I would be in Crystal City for hours, only noticing the time passing with the shifting sunlight, not sensing my numbing fingers and the holes in my gloves, not seeing the dirt caked under my nails and the nubs that my fingernails had become. Hours would go by without a thought of food. I was in my own world there. I'd leave around dusk, giving enough time to get myself and the household orderly so my husband didn't suspect I was digging a hole for most of the day.

By the end of the month, I had dug a coffin-like sized hole, easily three feet deep at the deepest part, probably two to three feet wide and at least seven feet long. I learned a lot by trial and error. I learned that crystals can form in all different directions and I had to be careful removing them, trying not to potentially break another formation around or near the cluster I was working on. I learned to not use metal tools in some circumstances as they would easily break the clusters. I became one with the forest around me,

a real opportunist and nothing was off limits..sun bleached cow bones were scattered just feet from the site. Was it a sign, a sacrifice to the crystal gods? Rib bones and vertebrae were useful digging tools and the scapula made a nice trowel-like tool. Sticks, preferably short cedar sticks, were also handy. Mostly though, I dug by hand. I wore through numerous gloves usually not noticing I was down to my fingers until the red dirt was fully caked under my ragged nails. I think a more seasoned rock hunter would have had a more clearer plan going into it, maybe trying to realize the edge of the rock before digging, probably also owning better gloves... I suppose there are many things someone with more experience would have done differently, but I appreciated in a way that I was learning through my own errors, almost like the crystals were teaching me.



My coffin-sized trench in the woods, watched over by a bleached cow skull



An early find from the pit

In the end, it was my body before my mind or logic that told me I needed to take a break, and with my arthritic-like hands and a constant dull pain in my right elbow, I reluctantly hiked my tools out of the woods. If it weren't for the physical pain, I

wonder how much longer I would have gone on. There was only a small feeling of guilt for the neglect of my 'adult' responsibilities, and I guess there was also the problem of space. They had taken over, they were almost everywhere in my house and outside: on my desk, bookcases, inside benches, houseplants... I even put some in the crawlspace. In an especially bold moment I asked my husband if he would consolidate his prized bourbon collection so I could have another shelf for my crystals in the liquor closet. He reluctantly obliged; I felt the marital tension for days, but it was totally worth it.



Bourbon over rocks...

Before this, I never really collected anything, that's what I'm calling it- collecting. But honestly, who puts their collections in their crawlspace? This 'collecting' was teetering on the edge of hoarding. The problem, too, was that I couldn't imagine getting rid of one: they each meant something to me. It reminded me of this show about hoarding, and a particular episode that comes to mind involved a man who hoarded rats. He had easily two hundred of them, and they had taken over his house, forcing him to sleep in the garage. He'd come inside his home and throw a heaping bucket full of dog food in the middle of the once dining room floor, and the rats would come out of every nook and cranny and go nuts. The man just sat back and looked at what he created with pure

adoration. With his house almost condemned, and it certainly presented a fire hazard with the wires eaten out and walls filled with rats' nests, an intervention (or eviction) was inevitable. Long story short, the interventionist said, "You have to choose just ONE rat." Of course the man immediately got irate and began crying. I get it now, I can relate. If crystals were rats, I'd be him; I'd be going down in flames, crystals in hands.



Choosing just one is not an option!

In retrospect, it may have made sense to get an idea of the value of the crystals before committing so much time and energy, but like any real addiction, reasoning was out of the question. Eventually, I decided to put myself and my crystals out there and take them to a professional, a real geologist. I brought three of my best specimens to Excalibur Minerals in Charlottesville, Virginia. Walking into the shop was like walking into a museum; I tried to play it cool.



One of my favorites from the woods of Rappahannock

I told my story, unwrapped the takeout containers containing my crystals, and handed them to Tony, the mineral guy who owns the place. Tony was an encyclopedia of knowledge, explaining how the crystals formed and approximately how long ago they may have formed. He could answer any of my crystal-related questions with ease, and I was in

awe. I almost didn't ask him how much they would be worth, looking around at the knee-high amethyst geodes...my crystals were small fish in a big pond, or maybe they were more like the algae.

I did though, I asked, and as it turns out, they're actually not worth that much, some probably nothing, I certainly won't be retiring anytime soon. In maybe an attempt to soften the blow, Tony said that they were relatively rare because of where they were found, but in some mines, as he held up my second best crystal, "They'd probably just throw this right back." Choke.

I was actually expecting to feel more discouraged by this news, but I really wasn't. Tony had a way of encouraging me, almost dismissing the fact that their value was relatively insignificant. I think he could sense my passion and excitement, and I think he didn't want to squander that. But, I also sincerely think he understood. I didn't feel judged or dismissed; if anything, I felt validated like this kind of enthusiasm was par for the course in rock and mineral collecting. And after almost an hour of very patiently answering all of my geological related questions and getting a tour of the "museum," Tony's parting words were, "keep digging!"

It's now been several weeks since I've been back to Crystal City, but I find myself frequently drifting off there in my head. As I get back into a more traditional routine, I can't help but think that finding that rock was one of the best things that has happened to me. Breaking from the norm, not necessarily making sense and doing something I was so wholesomely attracted to, felt right. It didn't necessarily bring me notoriety or fortune, but it made me feel like a child, a forty year old child; and once I found that child-like excitement, I got what I wanted, I got something back. To me, the crystals are invaluable, an unembarrassed passion, I needed something to un-stick me and it worked...I dug myself out of a hole.



Another treasure from my "Crystal City" in the woods



American Federation of Mineralogical Societies (AFMS)

Code of Ethics

I will respect both private and public property and will do no collecting on privately owned land without permission from the owner.

I will keep informed on all laws, regulations or rules governing collecting on public lands and will observe them.

I will, to the best of my ability, ascertain the boundary lines of property on which I plan to collect.

I will use no firearms or blasting material in collecting areas.

I will cause no willful damage to property of any kind such as fences, signs, buildings, etc.

I will leave all gates as found.

I will build fires only in designated or safe places and will be certain they are completely extinguished before leaving the area.

I will discard no burning material - matches, cigarettes, etc.

I will fill excavation holes which may be dangerous to livestock.

I will not contaminate wells, creeks, or other water supplies.

I will cause no willful damage to collecting material and will take home only what I can reasonably use.

I will practice conservation and undertake to utilize fully and well the materials I have collected and will recycle my surplus for the pleasure and benefit of others.

I will support the rockhound project H.E.L.P. (Help Eliminate Litter Please) and will leave all collecting areas devoid of litter, regardless of how found.

I will cooperate with field-trip leaders and those in designated authority in all collecting areas.

I will report to my Club or Federation Officers, Bureau of Land Management or other authorities, any deposit of petrified wood or other materials on public lands which should be protected for the enjoyment of future generations for public educational and scientific purposes.

I will appreciate and protect our heritage of natural resources.

I will observe the "Golden Rule", will use Good Outdoor Manners and will at all times conduct myself in a manner which will add to the stature and Public Image of Rockhounds everywhere.

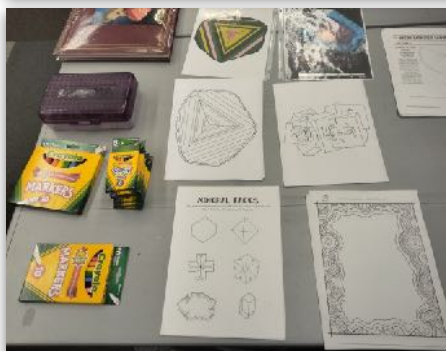
About the AFMS - A non-profit educational federation of seven similar regional organizations of gem, mineral and lapidary societies. The purpose of AFMS is to promote popular interest and education in the various Earth Sciences, and in particular the subjects of Geology, Mineralogy, Paleontology, Lapidary and other related subjects, and to sponsor and provide means of coordinating the work and efforts of all persons and groups interested therein; to sponsor and encourage the formation and international development of Societies and Regional Federations and by and through such means to strive toward greater international good will and fellowship. Founded in 1947.



Fossilfun14@gmail.com

Pebble Pups and Earth Scholars

Our May 2 meeting was about crystals from 4:15 PM - 5:15 PM at the East Library. We learned about crystal habits, minerals, and our local favorites. Below are a few pictures of learning centers. The next Pups Meetings are June 6, 4:15 PM - 5:15 PM at the East Library F1 and July 11, East Library same time. Check out the enhanced Pikes Peak Pebble Pups and Earth Scholars Facebook page, local event posts, great information, and fun posts. Challenge: get out and rock hound, enjoy the great state of Colorado, visit places you never have been, share your adventures, and good hunting. David



Rock Show Booth volunteers

Calling All Pebble Pups and Earth Science Scholars! Please Volunteer for our booth 9,10,11 June, 2023. Email fossilfun14@gmail.com. Also, we need donations for our booth, rock, mineral, and fossil samples for the show, and future outreach events. Lunch brown bags, specimen boxes, 1, 2, 3, 4-inch flats in good condition.



Left: My dad "Rocky" St. John, Geologist and myself as a Pebble Pup Gold panning in the 1970's. We joined the CSMS in 1979. We met so many amazing rock hounds and enjoyed everything the club had to offer. *Pick and Pack*, general meetings, June show, field trips, pups, and so much more. We dreamed of someday teaching the pups together. He is no longer with us but his love of learning, sharing samples and knowledge runs through me every time I work with junior rock hounds in our club and in the community. Our club means so much more than just collecting treasures. The relationships that we build with complete strangers or family is the real treasure.



Above and below: Brian Busse



REPORT

General Assembly 18 May 23

Hearty rockhounds gathered on a clear Thursday night at Mt Carmel Veteran Center for general assembly. We heard a great talk from Brian Busse about rockhounding in Colorado and his claim on Mt Antero. Thanks Brian! New members were welcomed and got to pick out a gift mineral to take home as a memento. Society business was conducted as usual.



A hearty rockhound displaying some samples of lapidary work she did with CSMS (the necklace too)



Classifieds and Announcements



John Emery
Editor

Thanks to our contributors. We encourage everyone to submit articles, photos, illustrations or observations.

Share your experiences, your new finds, or simply your enjoyment of our last field trip.

Handwrite it, type it, or email it. Format does not matter. All submissions are welcome. The DEADLINE for items to be included in the next Pick & Pack is the **last day of the month**.

To submit an item:

For hardcopy photos or articles, mail to the address below or bring them to the General Meeting. All hardcopy photos remain the property of the submitter and will be returned. Electronic photos can be submitted at resolutions above 200 dpi in ANY format.

Feature articles can be in MS Word or Mac Pages, preferably NOT pdf.

e-mail to the editor:

csmseditor@hotmail.com Mail to:
Pick & Pack Editor PO Box 2
Colorado Springs, CO 80901

The PICK & PACK is published ten (10) times per year (no issues in January or August). Unless otherwise marked, materials from this publication may be reprinted. Please give credit to the author and CSMS PICK & PACK.

CSMS Summer Field Trip Schedule

Might be subject to change or cancellation due to unforeseen circumstances

June 17th: April Fool's claim

24th: Hartsel Barite

July 1st: RMH with Lake George club, limit 10-15

14th: Dorris topaz claim

15th: Wigwam Claims - Lake George club - limit of 25

22nd: Timberline Flourite Mine with John McGrath

22-23: Crystal Park, Montana

29: April Fool's claim

August 5th: New Hope Amethyst Claim - Limit TBA

19th: Smoky Hawk

26th: April Fool's claim

September 2nd: Mt Antero w/ Brian Busse - Limit TBA

9th: Cañon City joining us at our claims

15-17th: Topaz Mountain in Utah

October 7th: Cañon City joining us at our claims

14th: Rocky Mtn High claims

21st: April fools claim

28th: Rocky Mtn High claim

Questions: Kyle Atkinson atkinson.kyl@gmail.com

Pick & Pack Reprint

Editor's Notes



The reprint of the *Pick & Pack* newsletter on pages 22-23 is a series of digital images taken with an iPhone 12. The images have been cropped using Mac Pages. The original newsletter was found wholly intact with a staple in the upper left hand corner (removed for the photos). Each row of the images represents the front and back sides of a single page. They can be read in order from left to right then top to bottom. Note the page numbers are not correct in the original. Page 3 appeared before

page 2, then the page numbering was discontinued after that. Note the typing near the top of the front page overlaps with the header. Since this newsletter was found wholly intact, I decided to capture it while I had the chance and we have room in newsletter. The paper is very brown presumably from oxidation. The original was found in a notebook titled, "Rock Bits and Pieces" with the name Mary J. Brockly handwritten on the front. The notebook and the newsletter will be returned to the society librarians. Additional digital reproductions can be accomplished upon request. —Ed.

Pick and Pack

Published by The Colorado Springs Mineralogical Society
VOLUME XX Number 5 MAY 1969

The May meeting of the Colorado Springs Mineralogical Society will be held at the IBEW Hall, 414 West Pikea Peak Avenue, on Friday, May 9, at 8 P.M.

PROGRAM

May's program will be given by Jack Thompson. Jack has been working on this program for some time and has entitled it "Photography for Hobbies related to the Earth Sciences." It is a slide program covering photography in all phases of our hobby--cats, minerals, jewelry, mountains, fault pictures, micromounts and so on. It should be most interesting and educational.

El Burke of Hartsel will have a case of Azurite on display along with another case belonging to the Clyde Morgans. The Morgans' case will be made up of clocks, ash trays and other items featuring the use of mineral materials.

GEM OF THE MONTH--EMERALD.

May's gem is emerald, the grass green variety of beryl--a silicate of two light metals, beryllium and aluminum. The emerald crystallizes in the hexagonal system in a six-sided prism. The color is derived from traces of chromium. It is faintly dichroic--that is, showing a deeper color in one direction than another.

The emerald has been valued since 2000 B.C. and was mined intensively in Egypt during the times of Alexander the Great, Cleopatra and the Roman Empire. Emerald along with ruby and sapphire shares the rank of "precious stones" in the popular estimation. Fine emeralds, because of their rarity can be most costly than diamonds.

The emerald (7.5 hardness) is harder than quartz, but softer than topaz. Its value comes mainly from the color, transparency and freedom from flaws. Some emerald occurs in granites and pegmatites; however, the really fine gems come from veins associated with calcite, quartz, dolomite and pyrite. The emeralds from Huco in Colombia occur in veins cutting through dark-colored carbonaceous limestone and shale. The best gems today come from this area.

Folklore relates that the emerald has been used to enhance ones eyesight, to cure dysentery, to assist with childbirth, to protect one from epilepsy, to drive evil spirits away, to preserve chastity and as a symbol of immortality. It is a beautiful and valuable gem.

PICK AND PACK

-3-

MAY 1969

FROM THE PRESIDENT:

With the publication of this issue of the PICK AND PACK, it brings to a close an era of many memories, trials and efforts of many people over the past years. It has been a source of great pleasure, educational value and pride, truly reflecting the high caliber of people that have made its publication possible. To those people who have contributed their efforts, a special thanks should be extended by all of the membership.

In the life span of everything, there are ups and downs, pitfalls and, of course, pinacles of success. In looking back, and recognizing some of these, one cannot help but give special recognition to Lucille Corneo, Dorothy Hayes, Shirley Embeson, the Glasgows, and Clarence Wolfe. These persons, perhaps have had more than their share of burdens for the PICK AND PACK.

Looking forward, as all ongoing organizations must, we venture forth into a new era for the PICK AND PACK with the upcoming June issue. We have, not only, a new method of printing the paper, but a new group of volunteers to publish and edit the bulletin. I wish to thank the volunteers who have expressed a desire and an enthusiasm to make our paper an even stronger arm of the Club. These people, I am sure, will produce the type of paper that all the membership will be proud to say belongs to the Colorado Springs Club.

All avenues of communication must be kept open in the Club. If any person has an article for the paper, please let us have it. All articles are welcome!

Watch for the new issue; if you feel some parts of the paper can be improved, please come forward and express your views to the people who are concerned--not to people who have no part in the paper. This way we can set the foundation to publish an outstanding club bulletin.

SOCIETY CASE:

A number of you have been contacted regarding catatons for the Society's lapidary case for the Grand Junction show. Don't forget to bring your cabs to the May meeting (Please mark your stones with name and material), if you have not been contacted and wish to participate in this project, please feel free to bring any cabs you have. Give them to Jewell Pavey or Shirley Embeson. Let's make a good showing at Grand Junction.

MEMBERSHIP:

Attached with this PICK AND PACK is the current membership roster. If you see any errors, please report them to the Sec. Welcome to new members, Charlene Dalton, William Wood, Mr. and Mrs. Louis Hull and Sgt. and Mrs. John Ellington and family. Their addresses and phone numbers are in the new roster.

PICK AND PACK

-2-

MAY 1969

1969 EXECUTIVE BOARD

President	George Fisher
Vice-President	Bob King
Secretary	Shirley Embeson
Treasurer	Jesse Black
Member at large	Jewell Pavey
Member at large	Jim Brown
Past President	Clarence Wolfe

EXECUTIVE MEETING

As stated in the constitution and by laws of the Society, the meetings of the executive board are open to the general membership. The routine business of the Society is conducted at this meeting, usually the fourth Monday of each month. The next meeting will be at Jewell Pavey's house, 2509 E. Boulder, on May 26, 1969 at 8 P.M.

Members are welcome to speak during the meeting, but they cannot vote. Please let the secretary know if you intend to come to a meeting, so the number of persons can be accommodated.

TREASURER'S REPORT

General Fund Balance, March 24, 1969	341.07
Receipts	86.00
Disbursements	98.75
General Fund Balance, April 28, 1969	328.32
Show Fund Balance, March 15, 1969	1181.73
Disbursements, (printing machine)	650.00
Show Fund Balance, April 28, 1969	531.73
Savings and Building Fund, April 28, 1969	1181.79

STATE FEDERATION:

Max Pilbore reports that he has completed the tabulation of suggestions for a state rock, mineral and gemstone. The following are the results (for CSMS only):

STATE ROCK	STATE MINERAL	STATE GEMSTONE
Pikea Peak Granite	Amazonite	Aquamarine
Marble	Silver	Topaz
Quartz	Molybdenite	Turquoise

Max also states that we still have time to get entries into the Grand Junction show. See the secretary for entry blanks.

SCHEDULE OF FIELD TRIPS - 1969

(Keep these instructions - no other reminders will be sent to you!)

Sunday, May 11 - PORT CARSON or CSMS TARRYALL TOPAZ CLAIM

At the time of printing we still have no written permission to enter Port Carson. If permission is received by the 11th, we shall go there; if not, we shall go to the society's claim north of Lake George.

Meeting Place: IBEW Hall (we shall go as a group to whichever locality is available)

Meeting Time: 9 A.M.

Trip Leader: Ken Glascoe

Equipment: Hammer, chisel, digging tools, lunch, cold drinks. Both possible collecting areas are a good hike from the parking area, so wear comfortable shoes!

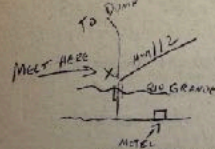
NOTE: On another page of this issue of P&P is a map to our Tarryall claim. If anyone goes up there on his own, at any time during the year, he should be sure to record with the Club secretary the amount of time spent, and the number of people who accompany him. This report is necessary for accounting for our annual assessment work.

Memorial Day Weekend - DEL NORTE, COLO. - for Pluma Agate

(This trip is planned for Friday and Saturday, May 30 and 31. No definite plans have been made for Sunday. You are free to stay in the area collecting, or if enough interest is indicated at the time, we may make a side trip to Biedell, which is on the way home.)

Meeting Time: 10 AM on both Friday and Saturday

Meeting Place: Intersection of Hwy 112 and local road going north to city dump (see detail on map to the left).



Accommodations: Camping in collecting area. No facilities. Bring water and all necessities. Motels in town of Del Norte. We recommend the Del Norte Motel, operated by Mrs. Juanita David. Mrs. David owns one of the claims on which we have permission to collect. We believe you will find her motel accommodations entirely satisfactory.

Trip Leaders: Members of Field Trip Committee

Directions from Colorado Springs: Hwy 24 west to intersection with 285 at Antero Junction. South on 285 to Poncha Springs; or Hwy 115 south to intersection with Hwy 30, 50 west to Poncha Springs. South on 335 from Poncha Springs, thru Saguache to intersection with Hwy 112. West on 112 to north side of bridge crossing Rio Grande on the north edge of Del Norte. Distance from Colo. Spgs: 200 mi.

Sunday, June 15 - CALUMET MINE, NEAR SALIDA - for Epidote, Uralite

Meeting Time: 10 AM
 Meeting Place: Intersection of Colo. 291 and Spiral Drive at the bridge across the Arkansas River, just northwest of town of Salida (see map to right).
 Trip leader: Jack Thompson
 Bring: Hammer, chisel, shovel, lunch, cold drinks
 Directions from Colorado Springs: Hwy 24 west to intersection with 285 at Antero Junction. South on 285 to junction with 291 (about 20 miles south of Buena Vista). 291 southeast toward Salida. Meet on north side of bridge. Distance from Colorado Springs, about 110 miles. Another 10 miles (on dirt road) to mine.

Fourth-of-July Weekend - JEEP TRIP TO ITALIAN MOUNTAIN

This trip is an extra, limited to 4-wheel drives only. We are planning to search for an old, apparently lost location, the only known lapis lazuli prospect in the U.S.!! Those planning to make this trip are urged to contact one of the Field Trip Committee or CSMS officers for instructions re meeting place, time, etc. Don't miss out by neglecting to call or write - and please write directly to the individual, not to the Society's P.O. Box. Your letter may be delayed, due to the amount of mail coming in for the Show.

Saturday, July 19th - CRYSTAL PARK - for Azsonite and Smokies

This trip will be held in conjunction with our annual show. We will leave from the City Auditorium, where visitors to the show will join us. Check with the flyers put out by the show committee for the exact time. And be sure to bring lunch and drinking water as well as signing tools. Remember that the toll gate fee to Crystal Park is 50¢ for adults and 25¢ for children under 12.

Trip leaders: Members of Field Trip Committee

Saturday and Sunday, August 9 & 10 - Ohio City - Quartz Creek - White Pine

This is a trip that the Field Trip Committee has not accepted - we prefer to take Chris Christensen's assurance that it's a great area for pegmatite minerals, including microcunents. Chris will lead the gang on this one! We'll meet on Saturday at 10 AM in Sargents, at the general store, and proceed as a group from there. Be prepared to camp, bringing all necessities. Nearest town for motel accommodations is Gunnison. From Colorado Springs, go to Poncha Springs (see directions to Poncha Springs on Del Norte trail) then west on Hwy 80 over Monarch Pass to town of Sargents, at foot of pass on the west side. Distance from Colo. Spgs is approximately 140 miles.

Another August trip?? If any of you 4-wheelers want to tackle Mt. Antero again this year, get in touch with the Field Trip Committee!!

Labor Day Weekend - STONEHAM, COLORADO - for Blue Barite Crystals

This trip is planned for Sunday and Monday, Aug. 31 & Sept. 1

Trip leaders: Dorothy and Max Willmore

Meeting Time: 10 A.M., Sunday, Aug. 31

Meeting Place: Collecting area north of Stoneham (follow log to the locality, given in the directions below).

Accommodations: Camp at collecting area. No facilities. Bring water, all necessities. Owner of property asks that we be particularly careful with fire. Note: There is absolutely no firewood available in the area. Nothing but open prairie. Motel: good accommodations available in Sterling and Brush (28-30 miles away).

Directions from Colorado Springs: Take Hwy 24 east to intersection with 71 at Limon; 71 north through Brush to intersection with Hwy 14 (between Stoneham and Sterling). West on 14 to dirt road about 1/2 mile before you come to Stoneham. This dirt road goes north on the crest of a hill, so that you can see Stoneham ahead of you. Go north on this dirt road for 3 miles to a cattleguard. (There are farmhouses clustered just before the cattleguard.) After crossing the guard, stay to the right. Go another mile to a faint dirt road which goes off to right toward bluffs. Park at edge of bluffs above headland gullies. Distance to Stoneham from Colo. Spgs.: about 185 miles.

*When the Field Trip Committee accepted this trip, we made a side trip to the Owl Canyon area north of Fort Collins, for aragonite "Indian dollar" crystals, pink alabaster, and satin spar. If enough people would like to make this Owl Canyon trip on Saturday, August 30, and then go on to stay in the Sterling-Stoneham area Saturday night, contact Lucille Corso to set up a meeting time and place, and to arrange a leader. Distance from Colo. Spgs. to Owl Canyon is about 145 miles, from Owl Canyon to Stoneham, about 90 miles (add another 20-25 miles to a motel).

Any Questions? Problems? Call one of the Committee, or one of the Society Officers. Committee members are Lucille Corso (chairman) Phone: 473-8798; Bob and Norma Wing, 633-3726; Ken and Bev Claassen, 635-9141; Jesse Black, 473-3554; Roy Wilson, 634-3286; Chris Christensen 633-1970. Officers who are not on the Field Trip Committee are George Fisher, 634-0635, and Shirley Brabson, 472-1494.

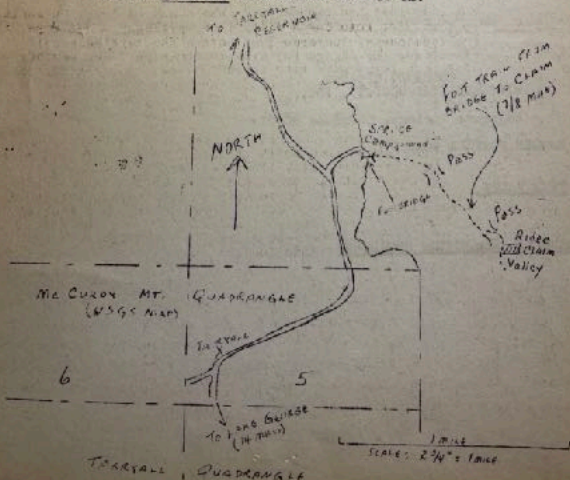
COLORADO SPRINGS MINERALOGICAL SOCIETY
TERRYALL TOPAZ CLAIM

Directions: From Colorado Springs, take U.S. 24 west to Lake George (about 60 miles). 1 mile west of the town, turn north on dirt road paralleling Platte River. (A sign at this intersection says "Terryall Duda Ranch". Continue approximately 15 miles Spruce Campground**. Leave car at campground, cross foot bridge. On far side of bridge is a water pump. Follow the trail past this pump directly uphill through aspen grove. Part way up the hill, which is quite steep, this trail intersects*** another, just below an old mining prospect. Turn right at this intersection and stay on trail to claim. Total hiking distance is just under one mile.

**NOTE: Spruce Campground is a designated Federal Conservation/Recreation area. Therefore, after June 30, a use permit costing \$7.00 annually, is required. If you do not have such a permit, a Door's Fee of \$5 per person is charged each time you enter a designated area.

Should you decide to visit the Terryall Reservoir, which is a few miles farther north, still a different permit - a Colorado State Sticker costing \$5.00/year - is required.

***NOTE: The above-described trail - short distance from this intersection - does not lead to the TMS claim.



COLORADO SPRINGS MINERALOGICAL SOCIETY
 P. O. Box 2, Zip 80901

Regular monthly meetings are held on the second Friday of each month from September through May, at 8 P.M., in the IBSV Building, 414 West Pike's Peak Avenue.

Dues are \$3.00 for single members; \$1.00 for Junior members and \$5.00 for a Family Membership.

Pick and Pack is sent free of charge to all members. Family members receive only one copy. Subscriptions are available at \$1.00 for 9 issues.

Articles from this publication may be reprinted if credit is given.

Final deadline for committee reports and announcements is the fourth Friday of the preceding month.

COLORADO SPRINGS
 MINERALOGICAL SOCIETY, INC. 1400 SPRINGS, COLO.
 P. O. Box 2
 Colorado Springs, Colorado 80901

RETURN POSTAGE GUARANTEED

TIME VALUE

ADDRESS CORRECTION REQUESTED

Lt. Col. & Mrs. L. Brockly
 Apt. A-801
 Army Navy Dr.
 Arlington, Va. 22202



Pick & Pack
P.O. Box 2
Colorado Springs, CO 80901-0002



CSMS is an incorporated nonprofit organization with the following goals:

- To promote and disseminate knowledge of the earth sciences, especially as they relate to mineralogy, lapidary, and fossils.
- To encourage study, collection, and fashioning of minerals.
- To accomplish the same through social meetings, lectures, programs, displays, shows, and field trips.
- The Pick & Pack newsletter is published 10 times each year to assist and promote the above.

Joining the Colorado Springs Mineralogical Society (CSMS):

- Meetings are held the third (3rd) Thursday of each month, except January & August.
- 7:00 PM at Mt. Carmel Veterans Service Center; 530 Communication Circle, Colorado Springs, CO 80905
- Visitors are always welcome.
- Individuals—\$30, Family—\$40, Juniors—\$15, Corporate—\$100.
- Find the application at the web site: www.csms1936.com. If you are interested in joining CSMS or would like more information, we encourage you to attend our next General Meeting or visit our web site.

Meetings: CSMS also offers Satellite Group meetings that allow more focused attention in specific areas of our members' interests. Our current Satellite Groups consist of the following: Crystal Study Group, Faceting Group, Fossil Group, Lapidary Group, and Pebble Pups/ Juniors. For details on Satellite Group meetings, check out the calendars on page 2 and the web site.

Membership Benefits: Yearly dues include 10 issues of the *PICK & PACK*, all field trips (additional fees may be required on some field trips, and members are responsible for all transportation to and from), participation in all Satellite Groups (some groups may request additional fees to help cover resource costs), free admission to the *Western Museum of Mining & Industry* (carry your card), a year of learning and enjoyment, plus a lifetime of memories.

Colorado Springs Mineralogical Society is a Member of the following organizations:

- American Federation of Mineralogical Societies (AFMS) www.amfed.org
- Rocky Mountain Federation of Mineralogical Societies (RMFMS) www.rmfmms.org