



Colorado Springs Mineralogical Society

Founded 1936
~ Lazard Cahn ~
Honorary President
"Pick & Pack"
Volume 63 No. 8
Oct 2023

CSMS General Assembly

Thursday, Oct 19, 2023 7:00 PM
Mt. Carmel Veterans Center

Program Speaker:

~ Mike Nelson ~

"Au, it's Only Gold; The Last 40,000 Years of History"

Everyone bring snacks (A-Z)

Society 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

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Au, it's Only Gold; the Last 40,000 Years of History



Mike Nelson, the speaker for October, enjoys strong black coffee, writing, campfires, fossils, mountains, IPAs, traveling, students of all ages and his moonlighting as a rockhound. His career in collecting rocks and minerals started about 75 years ago when, as a small inquisitive kid, he wandered around the hills of central Kansas picking up pieces of Dakota Sandstone, and fossils from gravel pits. He later became a professional geologist/paleontologist and spent several decades working, well not really working but having fun, in academic institutions as an instructor and administrator. In 2006 he left the University of Wisconsin System and resettled in Colorado Springs to camp, hike the 13s and 14s, and fiddle around with minerals. Almost immediately he joined CSMS and switched from writing journal articles to supporting the Pick & Pack and other newsletters. Mostly he just tries to enjoy life.

The title of his presentation is "Au, it's only gold; the last 40,000 years of history." Actually, he doesn't know much about gold but has worn out club members with his itinerant geologist yarns.

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

CSMS Group Calendar

Oct '23 Nov '23

11 Oct	8 Nov	Fossil Group	2nd Wed	6:00 PM	East Library Annex	Kristine Harris Richard Villareal	719-593-1524 831-760-6985
5 Oct	2 Nov	Board Meeting	1st Thur	6:00 PM	Zoom	John Massie	719-338-4276
3 Oct	7 Nov	Pebble Pups	1st Tue	4:15 PM	East Library	David St. John	719-424-9852
19 Oct	16 Nov	General Assy	3rd Thur	7:00 PM	Mt. Carmel Center	John Massie	719-338-4276
26 Oct	23 Nov	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)

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." Anthony Maltese, Rocky Mountain Dinosaur Resource Center, In the VIP Room; in-person only, all are invited, Museum admission not required; check in at the Security Post. See <https://sites.google.com/view/dmnsdes2020colloquiumschedule/home>

Oct 13: 7:00-9:00 PM, Denver Gem and Mineral Guild Silent Auction, held at Wheat Ridge United Methodist Church, Exhibition Hall, 7530 W. 38th Ave. (just east of Wadsworth). All are welcome to attend, and to bring specimens to sell in the auction (minimum donation of 20% of selling price to the club). Setup begins at 6 p.m.; there will be a vocal auction as well as silent tables, and a curtained room with fluorescent specimens for the auction too. For more info about the auction see www.denvergem.org or contact club president Joe Walkowich, 720-272-8806, joewcai@yahoo.com

Oct 17: 7:00 PM, Colorado Scientific Society October meeting, Permafrost and Melting in the Arctic, by Denny Capps, Denali Park and Preserve Chief Geologist; in-person meeting at Calvary Church Golden; see <https://coloscisoc.org/> for details and for a Zoom link to the meeting. All are welcome. [Note, rescheduled to this date from previously planned date of Thurs. Oct. 19]

Oct 21: 12 noon, Littleton Gem and Mineral Club Silent Auction, Heritage United Methodist Church, 7077 S. Simms St., Littleton. All are welcome; "Bring your minerals, gems, jewelry, fossils, books, and equipment to sell". Club retains 20% commission; non-member sellers limited to 2 flats of items. Seller setup starts at 11 a.m.; silent auction starts at 12; verbal auction at 1; checkout begins approx. 3 p.m. Email Lynette Warren at flywithle123@comcast.net to get more information or to pre-obtain a seller/buyer number.

Oct 21: 2-6 PM, "Spooktacular" at Colorado School of Mines Museum, 1310 Maple St., Golden. Free, all welcome. Hands-on activities; special guests; geode cracking; face painting; goodie bag; prizes!

Nov 6: 2:00 - 3:00 PM, Denver Museum of Nature & Science, Earth Science Colloquium, "Our Earth was completely frozen? Twice?" Carol Dehler, Utah State U., In the VIP Room; in-person only, all are invited, Museum admission not required; check in at the Security Post. See <https://sites.google.com/view/dmnsdes2020colloquiumschedule/home>

Nov 11: 1-4 PM, Free Mineral ID Day at the Mines Museum! "Let us identify the most mysterious specimens in your collection! (All are welcome; museum admission is always free. Limit 3 specimens per visitor; only identification assistance will be provided, we will not offer value assessment.) Just to mention—all persons interested in helping to support the museum and in taking part in special members-only activities, are invited to join the Friends of the Mines Museum! See www.friendsofminesmuseum.com. Annual membership, students \$10; adults \$30; family \$50.

Nov 16: 7:00 PM, Colorado Scientific Society November meeting, Colorado Structural Evolution, by Lonn Abbot, University of Colorado; in-person meeting at Calvary Church Golden; see <https://coloscisoc.org/> for details. All are welcome.

Nov 16: 7:30 PM, Friends of Mineralogy, Colorado Chapter, bimonthly meeting; Berthoud Hall, room 109; presentation on some topic of mineralogical interest TBA at this time, but see <https://friendsofmineralogycolorado.org/> for an update on this. All are welcome to attend.

Dec 8-10: "Rocks and Rails" Gem and Mineral Show sponsored by the Flatirons Gem and Mineral Club, Boulder County Fairgrounds, 9595 Nelson Road, Longmont; combined with the Boulder County Model Railroad Club model train show; one admission for both, adults \$8, seniors \$5, children under 12 free with adult. Fri & Sat. 10 AM – 5 PM, Sun. 10 AM – 4 PM.

Dec 14: 6:00 PM, Colorado Scientific Society, December Annual Meeting, Potluck Dinner and Presidential Address, Cal Ruleman, US Geological Survey (presentation title TBA); in-person meeting at Calvary Church Golden; see <https://coloscisoc.org/> for details. All are welcome.




Federation News Post

American Federation of Mineralogical Societies
Rocky Mountain Federation of Mineralogical Societies



Visit the new AFMS Juniors Website! <https://www.juniors.amfed.org/>




OCTOBER Rock & Gem SHOW 2023

ROCKS, MINERALS, FOSSILS, JEWELRY, DISPLAYS,
EDUCATIONAL EXHIBITS, DEMONSTRATORS,
SUPPLIES VENDORS, DOOR PRIZES, CONCESSIONS


CHILDREN'S ACTIVITIES:
WHEEL OF FORTUNE, MYSTERY BAGS,
AND GEM DIG

OCTOBER 6TH AND 7TH
FRIDAY & SATURDAY 10 AM TO 6 PM
CACHE COUNTY FAIRGROUNDS EVENT CENTER
450 S 500 W, LOGAN, UTAH




SPONSORED BY
Papa Murphy's
Rock & Gem Club

CACHE ROCK AND GEM CLUB GROUP
CACHEROCKANDGEMCLUB.COM



GLACIAL DRIFTERS



The Topeka Gem & Mineral Society Brings
The 66th Annual Gem & Mineral Show!

Ag Hall, 17th & Topeka Blvd
Oct. 14th, 10am - 5pm & Oct. 15th, 10am - 5pm

topekagms.org



Nov. 3rd, 1 pm to 7 pm
Nov. 4th, 9 am to 5 pm
Nov. 5th, 9 am to 4 pm

SOUTHERN NEVADA GEM & MINERAL SOCIETY'S

VIVA LAS VEGAS ROCKS!



Vendors, Displays, Demonstrations, Silent Auction, Door Prizes and More!

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.



Federation News Post

American Federation of Mineralogical Societies
Rocky Mountain Federation of Mineralogical Societies



Rock, Gem & Jewelry Show

October 21 & 22
Sat 10-5 / Sun 10-4

Sedona Red Rock High School – 89A at
Upper Red Rock Loop Rd, W. Sedona

Hourly Raffles Grand Prize

Admission – \$5
Children 12 & under Free



For more information go to:
www.sedonagemandmineral.org

48TH ANNUAL HUACHUCA GEM, MINERAL & JEWELRY SHOW
October 14th & 15th, 2023
The Mall at Sierra Vista




- FREE ADMISSION
- FREE PARKING
- HANDICAPPED ACCESSIBLE
- GEM CUTTING
- DEMONSTRATIONS
- HOURLY PRIZE DRAWINGS
- INDOOR & OUTDOOR VENDORS
- MINERAL IDENTIFICATION

49th ANNUAL CENTRAL DAKOTA GEM & MINERAL SOCIETY ROCK SHOW

When: October 20th, 10:00 a.m. – 6:00 p.m.
October 21st, 10:00 a.m. -5:00 p.m.

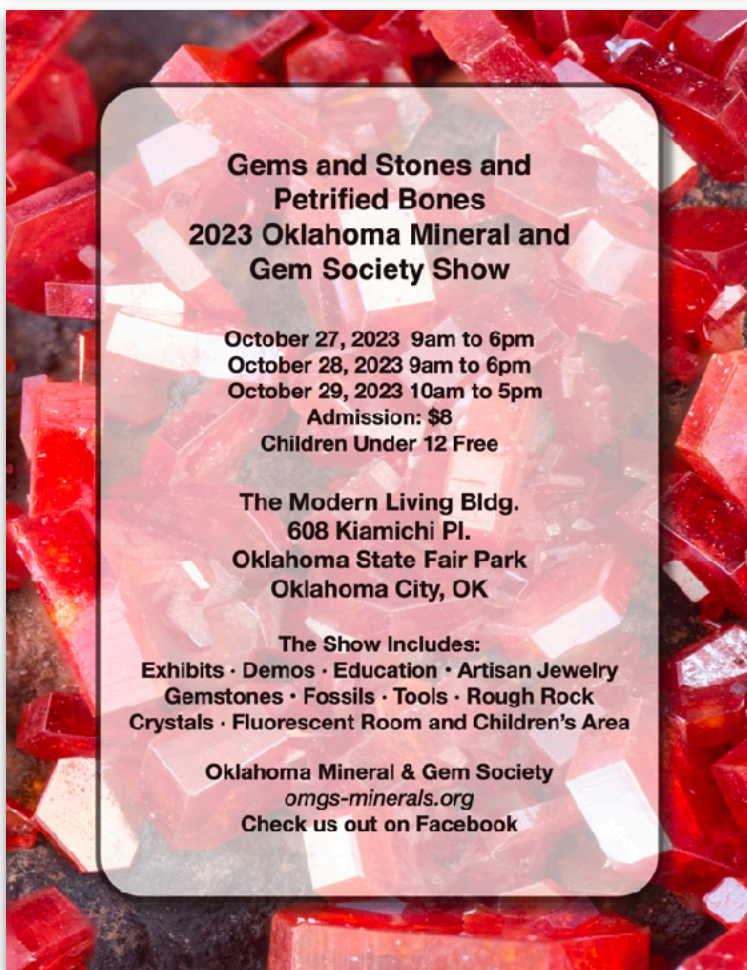
Where: Bismarck Eagles Aerie 2237,
313 N 26th St, Bismarck, ND



**gemstones* fossils*
exhibits grab bags*
*activity table
for kids**

*Visit us
online for our
demonstration
schedule!*

*Beautiful mineral
specimens - several
rock and mineral-
related vendors will
be present!*



Gems and Stones and Petrified Bones 2023 Oklahoma Mineral and Gem Society Show

October 27, 2023 9am to 6pm
October 28, 2023 9am to 6pm
October 29, 2023 10am to 5pm
Admission: \$8
Children Under 12 Free

The Modern Living Bldg.
608 Kiamichi Pl.
Oklahoma State Fair Park
Oklahoma City, OK

The Show includes:
Exhibits • Demos • Education • Artisan Jewelry
Gemstones • Fossils • Tools • Rough Rock
Crystals • Fluorescent Room and Children's Area

Oklahoma Mineral & Gem Society
omgs-minerals.org
Check us out on Facebook



Juniors Newsletter Submission Form

American Federation of Mineralogical Societies

Thank you for submitting an article, pictures, poetry, artwork, or other contribution for publication in the juniors newsletter. Your article or other contribution can be on any rockhounding subject that interests you. Juniors need to be 17 years or younger. The top part of this form is for the junior to fill out and the bottom part needs to be completed and signed by a parent.

FOR THE JUNIOR TO COMPLETE

Name: _____ Age: _____

Title of the article or other contribution: _____

Rock club name: _____

School (optional – your school will receive a copy of your published work)

Signature of junior: _____

FOR THE PARENT TO COMPLETE

I grant permission for the American Federation of Mineralogical Societies to publish this article or other contribution, along with your child's name, age, and rock club, both electronically and in print. Your child retains the right to publish elsewhere, anytime, and anyplace in the future.

Please note that any photo(s) with identifiable children's faces will need each child's parent's permission to publish.

Parent's name (printed): _____

Parent's signature: _____

Parent's email address: _____

Street address: _____

City or town: _____ State: _____ Zip: _____

Please scan or photograph this completed form and send it to youth@amfed.org along with your article or other contribution for the juniors newsletter.

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.

Visit the new AFMS Juniors Website! <https://www.juniors.amfed.org/>

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:

I regret to say that more than one person is using my name to try to get money or information from CSMS members. Neither I, nor anyone from the CSMS will never ask an individual for money!! If you get a request like this notify me immediately.

October is a very important month for CSMS. The nominees for the 2024 board of directors will be selected. The official vote will be at the November meeting. We also need to select the theme for the 2024 Pikes Peak Gem, Mineral, and Jewelry Show. Finally, we need to start planning our Christmas Party which is held at the December meeting.

John Massie
CSMS President

The Student Paleontologist

By Steven Wade Veatch

Only a small part of the paleontological record has been uncovered—more fossils of all sizes and shapes are waiting to be discovered.

Ancient worlds, long lost in the murky mists of time,
wait for students to discover new answers sublime—

It's their turn to ponder pieces of bone and reconstruct
these ancient worlds from layers of rock that now instruct.



Secretary's Spot

John McGrath

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

Shane Riddle, Program Coordinator
John Massie, Show Vol Coordinator
Kyle Atkinson, Field Trip Coordinator
Vacant, Science Fair Chair
Frank and Ellie Rosenberg, Librarians
Tina Cox, 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

CSMS General Assembly Minutes

7 PM, Thursday 21 Sep, Mt Carmel Vet Center, Co Springs

Address: 530 Communications Circle, Colorado Springs CO 80905

Board Attendance: President: John Massie, Past President: Sharon Holte, Member-at-large: Chris Burris, Editor: John Emery, Membership Secretary: Adelaide Bahr, Treasurer: Ann Proctor.

Agenda:

- I. Meeting was called to order by John Emery at 7:05 PM.
- II. The Pledge of Allegiance was led by John Emery.
- III. Introduction of Guests: John Emery.
- IV. Introduction of New Members: Adelaide Bahr.
- V. Program Speaker - Prof Katherine Sturdevant, "Women Warriors in the Cripple Creek & Victor Mining Labor Wars."
- VI. Meeting
 - A. There were 40 members/guests in attendance and 5 minerals were given out plus one for the guest.
 - B. July minutes were approved.
- VII. Officer Reports
 - A. President - John Massie, present, thank you from Friends of the Florissant Fossil Beds for the \$800.00 we gave them.
 - B. Vice President - Shane Riddle, absent.
 - C. Treasurer - Ann Proctor, present, no report.
 - D. Secretary - John McGrath, absent.
 - E. Membership Secretary - Adelaide Bahr, present, no report.
 - F. Editor - John Emery, present, gave out awards from AFMS: David St. John: *Too Many Rocks and Minerals and Fossils Too*, 4th Place, Adult Poetry; Koley Riddle: *Dinosaurs*, 1st Place, Junior Poetry; John Emery: *Pick & Pack March 2022*, 3rd Place, Large Bulletin.

G. Members at Large

1. Bill Myers - absent
2. Chris Burris - present, no report.

H. Past President - Sharon Holte, present, no report.

- I. Website and Show Coordinator - Lisa Cooper, Absent.

VIII. Satellite Groups

- A. Crystal Group - Kevin Witte present, next meeting September 28.
- B. Faceting Group - John Massie, present, available by appointment.
- C. Pebble Group - David St John, present, regular meeting.
- D. Fossil Group - Kristine Harris and Richard Villareal, regular meeting.
- E. Jewelry Group - still in need of a Chairperson.
- F. Lapidary Group - Sharon Holte, present, takes calls after 6:30 pm on Sunday or emails at anytime.

IX. Liaisons

- A. Claims - Frank Rosenberg. Present. Problem with the boundaries on April Fool's claim.
- B. Field Trip Coordinator - Kyle Atkinson, absent.
- C. Social Coordinator - Tina Cox, present. No report.
- D. Store Keeper - Ann Proctor, present. No report.

X. Unfinished Business

- A. Fossil Day at Garden of the Gods visitor center, October 14, 2023.
- B. Nominating committee; need volunteers; see Frank Rosenberg.

XI. New Business

- A. Show theme for 2024; will vote on theme in October.
- B. Door prize drawing - 5 prizes were given out.

XII. Meeting adjourned by John Emery at 8:45 pm.

Minutes submitted by CSMS President John Massie.

Hinsdalite and Fleeced at the Golden Fleece Mine

Mike Nelson
csrockguy@yahoo.com



Above: Golden Fleece Mine, Hinsdale County, Colorado. 2018. Photo by Jeffrey Beall, retrieved 1 September 23 Wikimedia Commons.

Back country enthusiasts in Colorado are aware of Otto Mears and his road building (mostly toll roads) experiences in the high mountains in the southwestern part of the state, especially in the San Juans. For example, he constructed the high mountain highway connecting Silverton to Ouray over Red Mountain Pass, and the Leadville Road over Poncha Pass. Additionally, he was building several narrow-gauge railroads to access mining districts including the Rio Grande Southern Railway from Durango to Ridgeway over Lizard Head Pass. And last but not least, he was the mover and shaker in getting the dome of the Colorado Capitol gilded with 200 ounces of gold.

At any rate, a fellow road builder by the name of Enos Hotchkiss hooked up with Mears in ~1874 to construct a road from Saguache to Lake City. Along the way, near the current Lake San Cristobal, Hotchkiss noticed some interesting ore rocks and filed a claim, the Hotchkiss Claim. It turns out that Hotchkiss

had a good eye for ore, and the Hotchkiss Mine was off and running. Unfortunately, in late 1876 poor ole Enos was badly injured as he fell several feet down a shaft. The Mine was idled for several months until new owners appeared and renamed the Hotchkiss to the Golden Fleece Mine. Gold, silver, and lead with minor copper and zinc were the major metals produced. The Mine also stimulated the economy in Lake City as numerous other mines went into production and a rail spur reached Lake City in 1889. The Lake City Mining District was booming. The Golden Fleece shipped one rail car containing ~\$50,000 of high-grade ore while in 1895 the Black Crook Mine sent out ~\$200,000 of pretty decent ore. In early December the Golden Fleece was listed on the Colorado Springs Mining Exchange [Golden Fleece Mining and Milling Company (Iowa)] opening at \$1.10 per share and closing at \$1.30. The Company purchased the Colorado City Mine in Cripple Creek and also had an interest (owned?) producing gold mine(s) in Georgetown. But that was it, the boom was soon off, and the bust hit the entire Lake City Mining District. Evidently, “bad luck” prevented the miners from finding new veins. Although the mines in the Lake City District were exhausted all was not lost as the Golden Fleece had produced almost a million and a half dollars of gold (today's price?) and silver before shutting down, and restarting, and shutting down, etc. In 1897 the shares were going for \$.56, in 1900 \$.26 and everything ended in 1903 at \$.06. Well, sort of ended as businesses piddled around with the mine until about 1920.

The exhaustion of the Golden Fleece was not helped by the fact that during the boom years a “systematic robbery by professional thieves” had siphoned off about half of the

gold output. As best I can determine the “professionals” worked in the mines and simply high graded the ore and took it out in their “lunchboxes.” Then the Pinkerton National Detective Agency caught up with the bad guys. [Check out the newspaper articles in References Cited section]. MinDat (August 2023) lists 46 valid minerals known from the Golden Fleece Mine including native gold and several gold bearing tellurides, various ore minerals: several silver bearing minerals, galena (lead), covellite (copper), bismuth (bismuthinite), sphalerite (zinc), etc. In addition, there are rare minerals such as mawsonite (copper-iron-tin sulfide) and melonite (nickel telluride) and others. The Golden Fleece is the Type Locality for one mineral, hinsdalite, named after Hinsdale County, Colorado, home of the Golden Fleece.



Above: Green hinsdalite from the Golden Fleece Mine. Width FOV ~3mm. Photo: M. Nelson

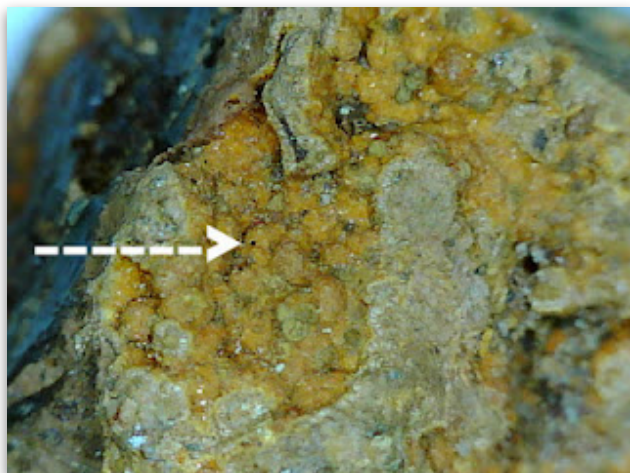
The County is one of the most remote in the lower U.S. and a mecca for mountain

climbers with five fourteeners and several thirteeners. Colorado 149 from Smith Fork north to Powderhorn through Creede and Lake City is one of the most majestic highways in the country.

Hinsdalite $[\text{PbAl}_3(\text{PO}_4)(\text{SO}_4)(\text{OH})_6]$ is a hydroxy (OH) phosphate (PO_4) – sulfate (SO_4) and some mineralogists also stick in strontium as another cation with lead and aluminum as the mineral contains almost 4% of this element (see Webmineral.com). Hinsdalite contains two oxyanions, sulfate and phosphate, a rather unusual occurrence. Although some specimens show crude rhombohedral crystals or hexagonal plates my specimen from the dump at Golden Fleece is extremely small but does have a botryoidal green crust of hinsdalite. There are other tiny areas of porcelaneous green masses, but crystals seem to be absent. The botryoids have a greasy luster, seem to be translucent, and a measured hardness of ~4.5 (Mohs). Hinsdalite is a secondary mineral in the oxidized zones of polymetallic (especially sulfides and tetrahedrite) ores. It forms a solid solution series with, and is visually indistinguishable from, plumbogummite $[\text{PbAl}_3(\text{PO}_4)(\text{PO}_3\text{OH})(\text{OH})_6]$ except by electronic gizmos determining the phosphorous-sulfur ratio (Frost and others, 2011). MinDat does not list plumbogummite as being present at the Golden Fleece, hence my use of hinsdalite.

I have noted in other articles that the phosphate anion (PO_4) and the arsenate anion (AsO_4) are of similar size and chemical makeup and may substitute for each other. Hinsdalite with PO_4 is the phosphate analogue of hidalgoite $[\text{PbAl}_3(\text{AsO}_4)(\text{SO}_4)(\text{OH})_6]$. Van Wambeke (1971) believed that

hinsdalite in a rock unit or erosional detritus may indicate the presence of valuable ore minerals.



Above: Spherical encrustation of tan to orange hinsdalite composed of microcrystals; each sphere ranges from 0.3 - 0.5 mm. Specimen is from Gold Hill, Utah. *Photo: M. Nelson*

REFERENCES CITED

Frost, R.L., S.J. Palmer, and Yunfei Xi, 2011, A vibrational spectroscopic study of the mineral hinsdalite (Pb,Sr)Al₃(PO₄)(SO₄)(OH)₆: *Journal of Molecular Structure*, vol. 1001, Issues 1-3.

Van Wambeke, L., 1971, Hinsdalite and corkite: Indicator minerals in central Africa: *Mineral Deposita* vol. 6.

The Golden Fleece Robbery

The New York Times, June 16, 1895, p. 1: Fortunes in Pilfered Mine Washings; Golden

Fleece Company Loser - Thousands to Spend to Punish Thieves.

San Francisco Call, June 15, 1895, p. 4: Robbery of a Rich Mine, Daring Theft of Ore at the Golden Fleece in Colorado.

The New York Times, June 17, 1895, p. 1: Colorado's Mine Thieves. Probable They Have Stolen Ore Worth Millions Of Dollars. Have Been Operating Ten Years. No Doubt They Have an Organization and Careful Methods of Robbing — Many Mine Owners Suffer.

Siringo, Charles A.: *A Cowboy Detective: A true story of twenty-two years with a world-famous detective agency*, Chicago : W. B. Chonkey Co., 1912; published in several other reprinted editions.

Sunday Herald (Syracuse, NY), June 23, 1895, p. 6: ROBBERING A MINE. Systematic Fleecing of Ore of the Richest Gold Properties.

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.rmfmts.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.



Fossilfun14@gmail.com

Pebble Pups and Earth Science Scholars

We had an amazing meeting this month on trace fossils and sedimentary structures. Our pups learned that a trace fossil can be mold or cast of a foot track from dinosaurs or other creatures. The ripple marks we studied are not fossils like many believe, but sedimentary structures. The pups were given plaster cast made by Betty Merchant and then painted them to add to their collection. We were treated by our amazing grandma to all kinds of snacks and drinks. Next meeting October 3, East Library room F1 4:15 PM – 5:15 PM bring share and tell.



Above and Below: Ripple marks are not fossils, as commonly thought; our pups had fun looking at the fossil kit and ripple marks. *Photos: D. St John*



Our Pups and scholars Rocked it This Year

We had two amazing club members this year that won first place from the AFMS Koley Riddle (poetry) and Sawyer Blizzard (essay under 16). Our club is so proud of them both. Please encourage all our Pups/Scholars to write poems, essays, or draw pictures that we can continue enjoy and submit to Earth Science themed competitions. Please bring them to any meeting in the future.

Thank You for the Donations WIPS Fossils

Fossil Day at Garden of the Gods Visitors Center October 14, 10-3. Come visit our booth and all the other cool booths to celebrate Earth Science Week.





REPORT

General Assembly

Sept 21, 2023

40 hearty rockhounds gathered on a crispy Colorado Springs Autumn evening to listen to Katherine Sturdevant, Professor of History at Pikes Peak State College. She talked to us about the role of women warriors during the Cripple Creek and Victor mining labor wars. Thanks Prof Sturdevant!

Chris Burris brought an ammonite specimen (left) he found in the local area (CoS), which appeared to include a large bite mark from another creature.

We handed out several awards for *Pick & Pack* contributors whose writing placed at the American Federation of Mineralogical Societies (AFMS) Editor Contest for 2023.

Business was conducted as usual and 5 minerals were given out plus one to a guest.





Women Warriors in the Cripple Creek & Victor Mining Labor Wars Presented by Katherine Sturdevant

In the 1890s-early 1900s, the Cripple Creek and Victor mining districts saw strike hostilities escalate into violent labor wars. Men organized under the Western Federation of Miners to seek fair improvements in their workplace safety and income. As mine owners, businessmen, and authorities combined forces, so did miners, their families, and sympathizers. Women became activists, especially when their husbands were rounded up at gunpoint into bullpens. This presentation especially focuses on two examples: one, the immigrant wife and mother to miners kidnapped by "whitecappers," and the other married to the newspaper editor campaigning in print for the union. The editor's wife would go on to be a national radical hero. The immigrant wife would be the great-grandmother of the speaker giving this talk.

PROGRAM REPORT

General Assembly
September 21, 2023

40 hearty rockhounds gathered on a crispy Colorado Springs Autumn evening to listen to Katherine Sturdevant, Professor of History at Pikes Peak State College. She talked to us about the role of women warriors during the Cripple Creek and Victor mining labor wars. Thanks Prof Sturdevant!

Katherine Scott Sturdevant is the senior US history professor at Pikes Peak State College where she regularly teaches Colorado history. She often speaks for history events and conferences. She has published two books on how to use social history as the context for writing family history.





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 the editor:
pickandpackeditor@gmail.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

October 7th: Cañon City joining us at our claims
~~14th: Rocky Mtn High claims~~ **CANCELLED**
21st: April fools claim
28th: Rocky Mtn High claim - **Clean-up Day**

Questions: Kyle Atkinson atkinson.kyl@gmail.com

Meteoritetesting.org

Have you found a meteorite?
Do you want to know?

The Testing Program is an educational outreach for science centers, universities, museums, planetariums, mineral societies, and the general public. It offers a quick turnaround of your samples at a low cost and is available to anyone who believes they have found a meteorite.

Front: The Widmanstätten structure of the iron meteorite Yarovoye, IIIAB, Yarov, Russia, found in 1991.

This structure is arguably the most complex and visually compelling primary structure in iron, octahedrite meteorites. It is a portrait of crystallized iron originally believed to have formed directly by crystallization from a very slow cooling melt inside the interior of a differentiated asteroid.

Continuous research over the past 100 years now shows that the Widmanstätten structure forms by diffusion-controlled nucleation and a growth process that is slow even on a geologic time scale of around 10 to 100 or more degrees per million years, cooling from 1,700° C and reaching equilibrium at around 600 to 650° C.

The result is a solid-state integrated fabric-like structure composed predominantly of Ni-poor kamacite and Ni-rich taenite.

Email for more information, Lab@meteorlab.com

Online since 1994

New England Meteoritical Services
P.O. Box 440, Mendon MA, 01756

Colorado Springs Mineralogical Society
PO Box 2
Colorado Springs, CO 80501

LITTLETON GEM & MINERAL CLUB SILENT & VERBAL AUCTION

Saturday, October 21, 2023

Location:

Heritage United Methodist Church 7077 S. Simms St. Littleton, CO 80127

Time:

Seller set up starts at 11 a.m. Silent auction starts at 12:00 PM. Verbal Auction starts at 1:00 PM. Checkout starts approx. 3:00 PM.

Bring your minerals, gems, jewelry, fossils, books, and equipment to sell. Club retains 20% commission.

Non-member Seller limited to 2 sellable flats. Payment by cash or check only.







Email Lynette Warren at flywith123@comcast.net to get more information on the Auction Procedures and to pre-obtain a seller/buyer number or you can get one on the day of the auction at the door.

Classifieds and Announcements

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Editor's Bulletin Contest 2023



AMERICAN FEDERATION RESULTS

Steven Wade Veatch: *The Castle Rock Quarries: A Building Stone Bonanza*
5th Place, Adult Articles Advanced

Sawyer Blizzard: *Theophytallia kerri: A Garden of the Gods Dinosaur*
1st Place, Junior Articles 12-17

David St. John: *Too Many Rocks and Minerals and Fossils Too*
4th Place, Adult Poetry

Blake Reher: *Igneous Mystery*
8th Place, Adult Poetry

Koley Riddle: *Dinosaurs*
1st Place, Junior Poetry

John Emery: *Pick & Pack March 2022*
3rd Place, Large Bulletin





REPORT

Crystal Group
September 28, 2023

19 hearty fossil hounds (shown in pic above) gathered at Mt. Carmel Vet Center Sept 28 for their regular meeting. They planned the topics to be discussed for this year and had a show and tell from this summers collecting season. Many interesting crystal specimens were presented by group members, as shown.





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