



**Colorado Springs  
Mineralogical Society**  
Founded in 1936  
**Lazard Cahn**  
Honorary President  
“Pick & Pack”  
Vol 61 Number 4

**CSMS General Assembly**  
Thursday, May 20, 2021, 7:00 PM

**GUEST SPEAKER:**  
Kevin Singel

Join Zoom Meeting  
[https://us02web.zoom.us/j/81403959149?](https://us02web.zoom.us/j/81403959149?pwd=bldGL3NBSTJXbThuc2g3N2JONHk3dz09)  
[pwd=bldGL3NBSTJXbThuc2g3N2JONHk3dz09](https://us02web.zoom.us/j/81403959149?pwd=bldGL3NBSTJXbThuc2g3N2JONHk3dz09)

Meeting ID: 814 0395 9149

Passcode: 256534

One tap mobile

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+16699009128,,81403959149#,,,,\*256534# US (San Jose)



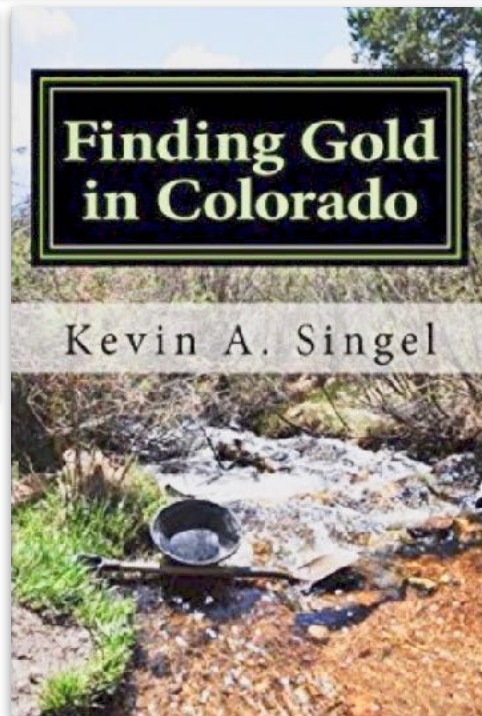
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**GUEST SPEAKER: Kevin Singel - Gold Prospecting**



Kevin is an avid, casual gold prospector and author of a book titled, *Finding Gold in Colorado*. The book was a #1 New Release in its category on Amazon in June, 2018.



COLORADO SPRINGS MINERALOGICAL SOCIETY PO BOX 2 COLORADO SPRINGS, COLORADO 80901-0002

## CSMS Calendar

May '21	Jun '21						
05/04/21	06/04/21	Fossil Group	1st Tues	7:00 PM	Pikes Peak United Methodist Church	Jerry Suchan	303-648-3410
05/06/21	06/06/21	Board Meeting	1st Thur	7:00 PM	Pikes Peak United Methodist Church	John Massie	719-338-4276
05/20/21	06/20/21	Pebble Pups (see session online)	3rd Thur	5:30 PM	Mt. Carmel Center	Steve Veatch	719-213-1475
05/20/21	06/20/21	General Assy Meeting	3rd Thur	7:00 PM	Mt. Carmel Center	John Massie	719-338-4276
05/27/21	06/27/21	Crystal Group	4th Thur	7:00 PM	Mt. Carmel Center	Kevin Witte	719-638-7919
05/27/21	06/27/21	Faceting Group	4th Thur	7:00 PM	Berta's House	John Massie	719-338-4276
By appt	By appt	Lapidary Group	By appt	By appt	Sharon's House	Sharon Holte	719-217-5683

## Other CSMS Events

### **Not cancelled, actually (Via Zoom)**

Board Meeting 6 May 21 6:00 PM  
General Assembly Meeting 20 May 21 7:00 PM

## Community Events

**TBD** Florissant Scientific Society: All live meetings are cancelled until further notice. Meanwhile check out some recent meetings that you may have missed on the FSS YouTube Channel: <https://www.youtube.com/channel/UCmA-JzMgXLWbAtJLVzOFQTg/videos>

**May 21-23:** Colorado Mineral and Fossil Denver Spring Show, Crowne Plaza Denver Airport Convention Center, 15500 E 40th Ave, Denver, CO 80239. Free parking, free admission, safe family fun! Shop minerals, fossils, meteorites, crystals, handmade gemstone gifts, and jewelry. Support your favorite dealers and support small businesses. Open to the public 10am - 6pm Friday / Saturday and 10am to 5pm Sunday

**Apr 24 -Jun 7:** The Sinkankas Symposium (virtual). The Sinkankas Symposium is co-sponsored by the Gemological Society of San Diego (GSSD) and the Gemological Institute of America (GIA). Registration is free to all. Log in between April 24 - June 7, to view the 8 on-demand presentations that make up the symposium. You may view the list of presentations, and register to watch any or all of them anytime, at:

<https://sinkankassymposium.net/>

## Secretary's Spot

Francis Nimick

### 2020 CSMS Officers

**John Massie**, President

**Rick Jackson**, Vice-President

**Francis Nimick**, Secretary

**Ann Proctor**, Treasurer

**Adelaide Bahr**, Membership Secretary

**John Emery**, Editor

**Chris Burris**, Member-at-Large

**Renee Swanson**, Member-at-Large

**Sharon Holte**, Past President

### 2020 CSMS Chairpersons

**Rick Jackson**, Program Coordinator

**John Massie**, Show Vol Coordinator

**Mike Webb**, Field Trip Coordinator

**Steven Veatch**, 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 Representative

**Vacant**, Federation Representative

## Meeting Minutes

Colorado Springs Mineralogical Society

### CSMS General Assembly

Meeting Minutes

Thursday: May 20, 2021, 7:00 PM via Zoom

#### Meeting Start

- CSMS President John Massie called the Meeting to order at 7:00 PM.
- Pledge of Allegiance - skipped due to zoom meeting format.
- No guests were introduced.
- No new members were introduced by Adelaide Bahr.
- There were about 20 members at this meeting, 0 minerals were given out.
- The April 15 General Assembly Meeting Minutes were approved by a show of hands. There were no corrections or additions.

#### Guest Speaker

The program speaker was introduced by CSMS VP Rick Jackson. Program –Finding Gold in Colorado by Kevin Singleton. There are copies of his book at WMMI if you want to obtain one. Check out [www.findingGOLDinColorado.com](http://www.findingGOLDinColorado.com) or <http://www.sunnymountain.net/?rssn-197758> (please put in the /and following characters, this is how Kevin gets paid)

#### Officer Reports

- John Massie stated there was nothing new on the Calendar of Deadlines. He also restated that we need a new Pebble Pups Leader as Steven Veatch is leaving us. We do have an assistant leader. John also announced our next meeting for June will be at Mt. Carmel at 7:00 PM.
- Sharon Holte stated that she had been given by Diana Wing a belt buckle made by Dick at Dick's Rock Shop. It states CSMS and has amazonite and smoky quartz on the face. Several ideas were discussed. The Board decided to make it a "Traveling Belt Buckle to be passed to the new president," motion made by Brenda Perkins, seconded by Ellie Rosenberg and passed by those present.
- Richard Jackson is still looking for a speaker for the June meeting.
- Ann Proctor stated we would need to discuss the show budget at the next Board.

#### Meeting

- Fran Nimick had no business.
- Adelaide Bahr had no new memberships.
- John Emery stated that the Pick & Pack is about ready to post.
- Renee Swanson had nothing new.
- Chris Burris was absent do to network failures.

#### Other Reports

- Steven Veatch is going to have one more meeting with the Pebble Pups before he leaves us. He has some awards, etc. to hand out. He will attend that meeting and hand out the writing awards he has.
- Sharon Holte added that the new 25 inch saw is about up and running. She replaced the old worn-out belt and had the guard shield repaired and is almost ready to put back together. Just one screw hole to drill. Frank and Ellie are willing to fill with oil and give it a try!
- Frank Rosenberg had nothing new on the claims.
- Ellie Rosenberg had nothing new on the Library. However, she showed a copy of the book "Finding Gold in Colorado" by author Kevin Singleton, tonight's program presenter.
- Mark Schultz was absent tonight.
- Ann Proctor, CSMS store keeper, stated she has everything in if anyone wants a pin or shirts.
- John Massie has one item of unfinished business: Florissant Fossil Beds is not having a student this year. There were no students in Earth Science or Paleontology, therefore, we are not supporting a student this year.

The meeting was adjourned by CSMS President, John Massie, at 8:37 PM.

*Meeting minutes by Past President Sharon Holte*



# Federation News Post

American Federation of Mineralogical Societies  
Rocky Mountain Federation of Mineralogical Societies



## AFMS Convention and Show Dates:

~~2021, April 21-25, Sandy, UT~~ (see notice below)

2022, Jan. 29 -30, Tyler, TX




## RMFMS Conventions, Workshop and Show Dates:

~~2021, April 16-18 - Sandy, UT (with AFMS)~~ (see notice below)

2022, May 7-8 - Las Vegas, NV

## PUBLIC NOTICE

The 2021 joint RMFMS & AFMS Conference has been changed to:  
**Big Piney, WY - June 17-20**  
**(aka Marbleton, WY)**



Due to COVID restrictions, the joint 2021 AFMS & RMFMS Conferences are not able to be held in Sandy, UT.

BUT, since everyone had so much fun in 2020, the **Sublette County Rock Hounds** have graciously stepped up to host the conference again this year.

New Dates: June 17-20, 2021

Contact: Jim Gray (jimgray@wyoming.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



### 2020 Satellite Group Chairs

**Kevin Witte/ Bob Germano**, Crystals

**John Massie/ Bertha Medina**, Faceting

**Jerry Suchan/ Joy Price**, Fossils

**Vacant**, Jewelry

**Sharon Holte**, Lapidary

**Vacant**, Micro-mount

**Vacant**, Photography

**Steven Veatch/ Betty Marchant**, Pebble Pups

### 2020 Liaisons

**Florissant Fossil Beds National Monument:**

Steven Veatch

**Western Museum of Mining and History:**

Steven Veatch

## Presidential Matters



### A message from CSMS President John Massie:

Just a brief reminder that field trips will be starting soon. I would like to see members to fill at least one hole before starting to dig for minerals and gems.

At this time we are scheduled to start meetings at Mount Carmel on June 27<sup>th</sup>. I am looking forward to seeing people in person again.

We are still looking for a Pebble Pups leader.

Hope to see everyone at the next zoom meeting on May 20, 2021.

## Pebble Pups

Steven Veatch



## CSMS Pebble Pups and Earth Science Scholars

**NOTICE:** Regular Pebble Pup meetings are **SUSPENDED** until TBD



Please visit our blog for special announcements and field trips:

<http://pebblepups.blogspot.com>

<http://www.csms1936.com>



Find your assignments at:

<http://pebblepups.blogspot.com/p/merit-badge-assignments.html?m=1>

**The Lennox House:**  
**A Mansion Built from Cripple Creek Gold**  
Steven Wade Veatch

William Lennox (1850-1936), after prospecting in the mountains near Fairplay, Colorado, headed down to Colorado Springs, a new town at the foot of Pikes Peak. He established himself as a businessperson and later invested in Cripple Creek mines. These mining investments made him a millionaire almost overnight.

The now wealthy Lennox built a new home, one that would show his position in Colorado Springs' society. He hired the well-known



**Above:** Repeat photography of the Lennox House, 1001 N. Nevada Avenue, Colorado Springs, Colorado. The cyanotype (top photo) was taken around 1901 (*courtesy of the Cripple Creek District Museum*). This was written in pencil on the back of the cyanotype: "Lennox's new house NE corner Yampa and Nevada." Repeat photo (bottom image) date February 2021 by S. W. Veatch.

Denver architect Frederick J. Sterner to design his two-and-a-half story mansion across from Colorado College—at the northeast corner of North Nevada Avenue and Yampa Street. Lennox started his home building project in 1900 (at a cost of \$50,000)<sup>1</sup> and moved into his stylish home in May 1901 (Lennox, 1901). Lennox hired James H. Barry as the general contractor for the construction of his home (National Register of Historic Places, 1999).

The Lennox house was one of Sterner's first commissions in Colorado Springs, and soon his architectural designs were in high demand among the city's leading citizens. Sterner's local projects included General William Jackson Palmer's (the founder of Colorado Springs) second Antlers Hotel and the renovation of Palmer's residence, Glen Eyrie, both in 1901 (Lennox Walking Tour).

The Lennox house featured elements of the Mission Revival style in an interesting display of large curvilinear parapets, smooth stucco walls, quatrefoil windows (an ornamental design of four lobes resembling a flower), arched windows, and porches with arcades. A stunning red tile roof topped the structure (Central Downtown Historic Walking Tour).

Lennox finished the interior of the home with hardwood, an open design, lots of windows, and large doorways. Several large eye-catching fireplaces heated the home.

Perhaps on a warm summer afternoon, after years of visible success, Lennox walked down a path, fringed with blue flowers, to a bench between two cottonwood trees and sat down.

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<sup>1</sup> Approximately \$1,565,000 in today's dollars

A songbird chirped on a fence post. As calm as a stone in a pool of deep water, he looked at Pikes Peak and thought about his life, how it began, and how it had changed.

Lennox, the child of Scottish immigrants, was born on Christmas Day in 1850 in Iowa. Looking back on his life in 1901, Lennox wrote, *"I was brought up on my parent's farm and used to hard work . . . I attended the Iowa State University at Iowa City. I could not spare time from farm work to graduate but acquired sufficient learning to teach a country school"* (Lennox, 1901).



**William Lennox** arrived in the Colorado Territory in 1872 and settled in Colorado Springs.  
*Photo: Unknown photographer, undated. CCPF "Biography – Lennox, William," Colorado College Special Collection.*

With his parents and siblings, Lennox made the journey from Iowa to Denver on the Kansas Pacific Railroad, and from there they traveled by stage on a rutted, dusty dirt road to Colorado Springs. They arrived in April 1872.

According to Lennox, his parents "bought and moved to a ranch at Edgerton, on the west side of Monument Creek, about ten miles north of Colorado Springs" (Lennox, 1901). Just nine months earlier, on July 31, 1871, General William Jackson Palmer, a Civil War veteran and railroad tycoon, had established Colorado Springs. Promoters called it the Fountain Colony, and Colorado was still a territory.

The same month they arrived in town, Lennox and his brother helped plant the first cottonwood trees General Palmer brought in to shade the wide streets of the business center of the city (Lennox, 1901). The trees gave the city a burst of green where it had been a treeless prairie.

The 22-year-old Lennox pondered infinite possibilities. He had both the appetite to succeed and the will to make it happen. He was a westward-looking man, and Fairplay was not too distant for hope. Lennox left Colorado Springs for a few months to prospect and mine near Fairplay. He then returned to Colorado Springs in 1873 and started a feed and livery business at the age of 23 (Lennox, 1901). The following year he added the handling of coal as the agent for the Denver & Rio Grande Railroad, and later a freight-transfer business entered his orbit of business enterprises (Lennox, 1901).

In 1876, Lennox married Belle Cowgill. He went to Iowa for the ceremony and returned to Colorado Springs with his bride. They had six children; two died in childhood.

Lennox emerged as the largest coal dealer in the Pikes Peak region. He continued in the coal and transfer business until April 1901 (Lennox, 1901).

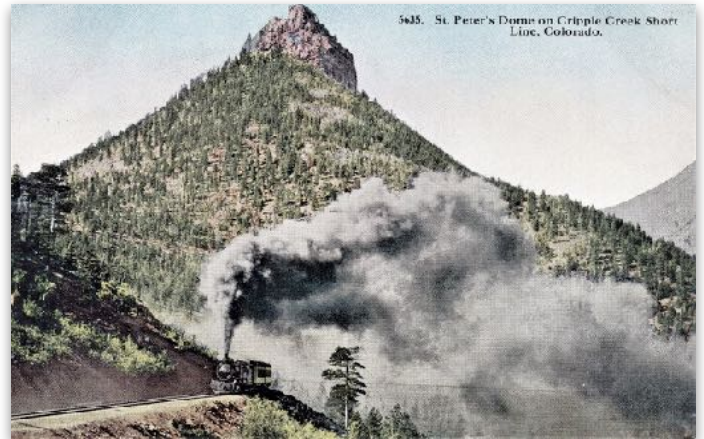
While operating his coal yard, Lennox invested in mining operations in Gunnison, Summit, and Teller counties (National Historic Register of Historic Places, 1999). In 1891, Lennox bought Robert Womack's El Paso lode (Portrait and Biographical Record, 1899). Womack was the first to find gold at Cripple Creek, in 1890, and his El Paso strike started a gold rush to the area. Lennox next organized the Gold King Mining Company, which included the El Paso lode. Lennox invested in other Cripple Creek mines. Along with Ed Giddings, who owned a department store in Colorado Springs, and Judge Colburn, Lennox leased the Strong mine in Victor (Sprague, 1953). One report states that the Strong lease brought \$20,000,000 to the Lennox group (Newton, 1928). Lennox also became a major shareholder and officer of the Ajax mine, also in Victor (Wilkins, 1983).



**The Gold King mine.** Womack's claim came under the ownership of the Gold King Mining Company.  
*Photo: A. J. Harlan, undated. Courtesy of the Cripple Creek District Museum. CCDM A84-30.*

Lennox became a millionaire as the Cripple Creek mining district became the foremost producer of gold in the nation (National Register of Historic Places, 1999). Luck had been Lennox's constant companion.

While banking his Cripple Creek fortune, Lennox served as president of the Exchange National Bank in Colorado Springs. Furthermore, he served as vice-president and director of the Colorado Springs & Cripple Creek District Railway—the third railroad into the gold camp (Wilkins, 1983). He also owned large cattle ranches in Texas.



**Above:** This vintage color postcard depicts the Colorado Springs & Cripple Creek Railway (also known as the Short Line) at St. Peter's Dome. This line provided one of the most scenic train rides in the state. William Lennox invested in this railroad and served as vice-president and director of the line.  
*Photo: From the S.W. Veatch postcard collection.*

In 1902, Lennox built the Lennox Hotel at 226-228 N. Tejon Street with furnished rooms on the upper floors that served middle-class tourists and railroad workers. The ground floor was a storefront for the Knight-Campbell Music Company.

By 1921, the Lennox changed its name to the Albany Hotel. The Albany sent cars to the railroad depots to pick up passengers who were staying at the hotel. The hotel offered a guide and touring cars for the "Four Hour Circle Trip" that included Garden of the Gods, the Cliff Dwellings, Cave of the Winds, Ute Pass Canyon, Manitou and the local mineral springs, and the foothills of Pikes Peak (Albany Hotel Brochure, 1921). The hotel offered longer

excursions that took guests up Pikes Peak, to Cripple Creek, and to the Royal Gorge. These scenic auto trips, operated by the Colorado Touring Company for the hotel, left directly from the Albany and returned passengers to the hotel at the end of the trip.



**Lennox Hotel circa 1903.** There is a sign “Lennox” over the second floor windows and hotel doorway. The Knight-Campbell Music Co. occupies the storefront on the left side of the building. Note the wide street with streetcar tracks. *Photographer unknown. Courtesy of special collections, Pikes Peak Library District, 001-5622.*

Room rates in 1921 started at \$3.00 (about \$44 in today’s dollars) for two people (Albany Hotel Brochure, 1921). Today the Albany Hotel provides apartment units with the ground floor divided into a lobby and a separate retail storefront.



**Above:** Interior of an Albany Hotel guest room circa 1921. *Photo: from a brochure promoting the hotel (from the S. W. Veatch collection).*



**Above:** View of the Albany Hotel, originally the Lennox Hotel. Architect Thomas MacLaren designed the three-story commercial brick building at 228 N. Tejon for William Lennox as a variation of the Classical Revival style. *Photo: S. W. Veatch dated March 2021.*

Lennox, concerned with the progress of the community, always looked ahead for the development of Colorado Springs. As a member of the Chamber of Commerce, he worked tirelessly to promote the city. He was deeply interested in education, and from the year he moved into his mansion (1901), he served on the Colorado College Board of Trustees until his death on August 13, 1936 at age 85.

In his will, Lennox left his house to Colorado College. After receiving Lennox's home from his estate in 1936, the college engaged local architect Edward L. Bunts to design plans to remodel the home as a student center. The college spent \$40,000 renovating the property for use as a multi-purpose student center that functioned as a place for student dining, second floor. Henry E. Mathias, the former

head of the Geology Department, acted as the center's director.

In 1959, the newly constructed Rastall Center opened as the new student center. The Lennox house, after another remodel, became home to the Beta Theta Pi fraternity for 30 years. The college conducted an intensive German language program there in the summers.

In 1989, the college renovated the building for use as a coed dormitory. The college listed the Lennox house on the National Register of Historic Places in 1999. Today, Lennox's home is known as the Glass House, a co-ed residence for 20 students to explore and expand multicultural awareness.

The Lennox House is an important landmark in Colorado Springs for its architecture and history. The building, built with money from Cripple Creek gold, shows the association of William Lennox, a Colorado Springs pioneer and a wealthy Cripple Creek mining investor, and the college that he generously supported. And the Lennox house still stands, just like Pikes Peak—defiant against time.

### **Acknowledgments**

Thanks to Shelly Veatch and the Colorado Springs Oyster Club critique group for reviewing the manuscript, and Dr. Bob Carnein for his valuable comments and important help in improving this paper.

### **References and Further Reading:**

Albany Hotel Brochure, 1921, Advertising brochure promoting the hotel and Colorado Springs.

Central Downtown Historic Walking Tour, Colorado Springs, 2004: retrieved from <https://coloradosprings.gov/sites/default/files/planning/cenwalkingtour.pdf>, on March 15, 2021.

Lennox House, History Walking Tour, Colorado College: retrieved from <https://www.coloradocollege.edu/basics/campus/tour/historic/lennox.html>, on February 9, 2021.

Lennox, W., 1901, Century Chest Collection, 1901. Letter written August 4, 1901 to My Great Grand Children, Colorado Springs: retrieved from <https://digitalccbeta.coloradocollege.edu/pid/coccc:10790>, on February 9, 2021.

**Note:** This letter, written by William Lennox, is from a time capsule, the "Colorado Springs Century Chest Collection, 1901. It was stored for 100 years in various locations on the Colorado College campus. On January 1, 2001, the chest was opened at the Tutt Library of Colorado College. The college scanned items from the chest and transcribed many of the letters.

National Register of Historic Places, 1999, Registration form: Lennox House, Colorado Springs, El Paso County, Colorado, National Register #99001266 United States Department of the Interior, National Park Service.

Newton, H. J., 1928, *Yellow Gold of Cripple Creek: Anecdotes and Romances of the Mines, Mining Men, and Mining Fortunes*: Denver, Nelson Publishing Company.

*Portrait and Biographical Record of the State of Colorado: Containing Portraits and Biographies of Many Well Known Citizens of the Past and Present*, 1899: Chicago, Chapman Publishing Company.

Sprague, M., 1953, *Money Mountain: The Story of Cripple Creek Gold*: Lincoln, University of Nebraska Press.

Wilkins, T. E., 1983, *Short Line to Cripple Creek: The Story of the Colorado Springs & Cripple Creek District Railway*: Golden, The Colorado Railroad Museum, Colorado Rail Annual Number 16.

## Loafing Around with a Mystery Rock

Mike Nelson  
csrockguy@yahoo.com



The other morning, I was just sort of loafing around, enjoying my coffee, thinking about the day, when I spotted a rock over in the corner mostly hidden under

some junk. Yea, I kind of remember that piece —came with a “box of rocks” and lacked a label. I was always going to look at it “someday” and try to make an ID. Well, this lazy morning, somewhere around 300+ days in my pandemic self-quarantine, would be a good opportunity to take a peek. Besides the lack of a label, I had tossed it aside since the softball size of the specimen was much larger than I usually tackle since it exceeds the operating distance of my binocular scope. But I grabbed my 10-power loupe and wow, this was an interesting rock, but it still lacked a locality label. However, it had a very distinct look, almost like a poorly cemented conglomerate with large albite and schorl crystals and



**Above:** mystery rock with a mass of albite crystals while the black crystals are schorl. Width of specimen ~ 13 cm. Photo: M. Nelson

something orange and small---that should help with the ID on MinDat.org. Time to refill the coffee mug and get started.

After spending time on the internet, and perusing mineral books and articles, I have concluded my rock came from Portugal No. 2 quarry, Malpartida e Vale de Coelha, Almeida, Guarda, Portugal. Now I know very little (not much at all) about the geology of Portugal and the best I could find is from MinDat.org:

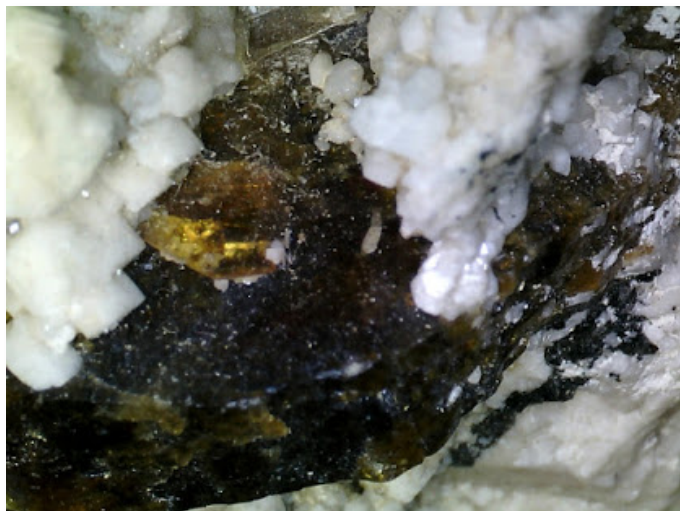
*Granite quarry with several pegmatite layers rich in pockets. Adjoining pockets may show quite a different mineralization. there are other granite quarries in the vicinity, presumably with similar minerals. 19 valid minerals known.*

A base geologic map indicates that northern Portugal is a granitic terrain that evidently is associated with the Variscan Orogeny, a late Paleozoic continental collision between Euramerica (Laurussia) and Gondwana to form the supercontinent of Pangaea. There appears to be tens of granite quarries scattered across the area and this granite terrain contains the Central Iberian Pegmatite Belt. Ages of the various pegmatites are close to those that characterize the granites, ~300 Ma (evolution of older granites) and ~290 Ma (later granites). (Dias and others, 2013).

And that is about my sum knowledge of Portuguese geology except that the Douro River flows through the granite and the associated soils produce the famous port grapes for the wines!

In looking closely at the rock, I discovered a

mass of albite (plagioclase feldspar; usually white to gray) with a variety of different size schorl crystals (most common member of the Tourmaline Group; black in color). But the most interesting crystal half concealed in the albite mass was a partial, large (~2.1 cm) crystal of what I believe is monazite, a reddish-brown phosphate mineral that contains rare-earth elements (REE/Ce/La/Nd/Sm/Gd)(PO<sub>4</sub>). According to MinDat.org the Portugal #2 Quarry does not list a dominant monazite REE, so identifies it as monazite (?).



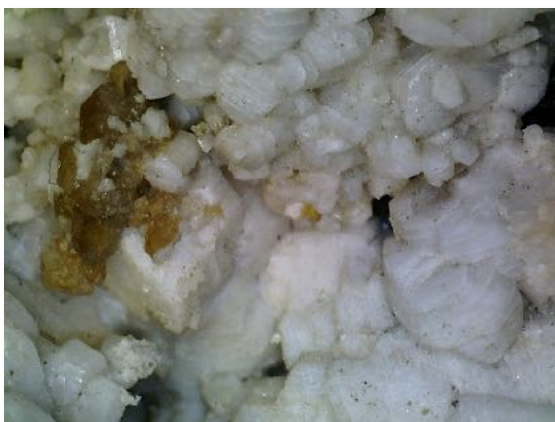
**Above:** A large (width ~2.1 cm) monazite crystal stuck in the mass of white albite crystal. Note the smaller, transparent, golden, tabular crystal of monazite "on top of" the larger crystal. Photo: M. Nelson

The albite mass also contains a number of small (1-2 mm) orange to orange-brown crystals that I first thought were spessartine garnets since they were common in information supplied by MinDat.org. However, something was wrong since the crystals seemed not to resemble typical garnet crystals of any kind. These crystals were flattened, thin, and wedge shaped. In addition, there are consolidated masses of these colorful crystals. So, readers can examine my photos and perhaps come to their own conclusions—did I pick the correct collecting locality? Are

these crystals correctly identified as monazite? At any rate, I had an interesting time with the mysterious rock!



**All Above:** The above photomicrographs show the brown to orange brown small crystals on monazite (?) encased in the albite mass. Width FOV ~1 cm. Photo: M. Nelson

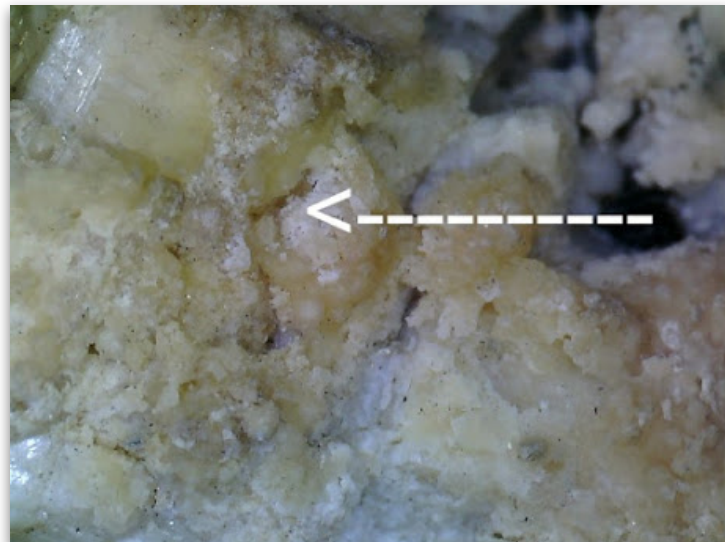


**All above:** Additional photomicrographs that show the brown to orange brown small crystals on monazite (?) encased in the albite mass. Width FOV ~1 cm. Photos: M. Nelson



**Above:** I remain uncertain about the "crud" often covering schorl. Photo: M. Nelson

**Below:** I believe the white material at the end of the pointer is aragonite. Photo: M. Nelson



## REFERENCES CITED

Dias, P.A., B. Pereira, J. Azevedo, J. Oliveira, Leal Gomes, and J. Carvalho, 2013, Pegmatite Productive Terrains in the Variscan Granite Hosts From Northern and Central Portugal: 23rd International Mining Congress & Exhibition of Turkey • 16-19 April 2013 ANTALYA [[https://repositorium.sdum.uminho.pt/bitstream/1822/30028/1/IMCET2013\\_Dias\\_et%20al.pdf](https://repositorium.sdum.uminho.pt/bitstream/1822/30028/1/IMCET2013_Dias_et%20al.pdf)]

*Give me a mystery, just a plain and simple one, a mystery which is diffidence and silence, a slim little bare-foot mystery: give me a mystery, just one.*

- Yevgeny Yevtushenko

## Classifieds and Announcements



**John  
Emery**  
Editor

Thanks to our contributors. We encourage everyone to submit articles, photos, illustrations or observations. Don't be shy.

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.

Articles are preferred in MS Word, preferably NOT pdf.

e-mail to the editor:  
csmseditor@hotmail.com

Mail to:  
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### **Editor's Contest 2021**

#### Rocky Mountain Federation Results

Congratulations for placing in the top 5 at the RMFMS contest:

**Mike Nelson** - Adult Articles Advanced

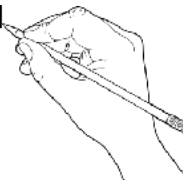
**Steven W. Veatch** - Adult Articles Advanced

**Jonathan David Hair** - Jr. Articles 12-17

**Karah Teague** - Jr. Poetry

**Josilyn Teague** - Jr. Poetry

**John Emery** - Photo Collage



Authors are invited to the joint RMFMS Editor/Webmaster breakfast on Sunday, June 20, 2021 at the Sublette County fairgrounds, Big Piney, Wyoming (last day of the RMFMS/AFMS conference, see advertisement pg 5). The conference coincides with the joint RMFMS/AFMS gem and mineral show 17-20 Jun 21. Cost for the breakfast is \$25 per person. Deadline to register for the breakfast is June 1, 2021.

Registration forms are part of the 2021 RMFMS Convention Packet, which is available on the RMFMS website:

[www.rmfmts.org](http://www.rmfmts.org)

Click on the *Information* heading, then choose "Events & Club Shows."

All top 5 winners are automatically advanced to the AFMS contest. Best wishes to our amazing contributors at AFMS!

Congratulations again, to all!

### **Call for Speakers**

Dr. Richard Sauers, Curator at the Western Museum of Mining and Industry (WMMI) is calling for speakers to visit WMMI and present one of the "Second Tuesday" lectures this year. Currently WMMI is doing taped presentations and posting them to their website for a time. They hope to switch back to live presentations sometime this year.

If you are interested in presenting, please contact the editor:  
csmseditor@hotmail.com

## Field Trip Schedule - CSMS 2021

Schedule as of April 30, 2021; We're always looking for volunteer trip leaders so we can add a few more field trips to this list. If you have a locality you'd like to visit or are willing to lead a field trip, please contact the field trip coordinator Mike Webb at:

[mwebbstudent@yahoo.com](mailto:mwebbstudent@yahoo.com)

Mike Webb  
Field Trip Coordinator

Hartsel, Bayou Salado Trading Post, Barite Mine, Park Co. CO

Date : Saturday : May 22, 2021

Leader : Mike Webb

Contact : [mwebbstudent@yahoo.com](mailto:mwebbstudent@yahoo.com)

Florissant, Rocky Mountain High Claims, Teller Co, CO

Date : Saturday : June 5, 2021

Leader : John Massie

Contact : [jmassie1075@gmail.com](mailto:jmassie1075@gmail.com)

Crystal Peak Mining District, Smoky Hawk Mine, Teller Co, CO

Date : TBD

Leader : Mike Webb

Contact : [mwebbstudent@yahoo.com](mailto:mwebbstudent@yahoo.com)

Topaz Mountain Gem Mine, Tarryall Mountains, Park Co. CO

Date : TBD

Leader : Mike Webb

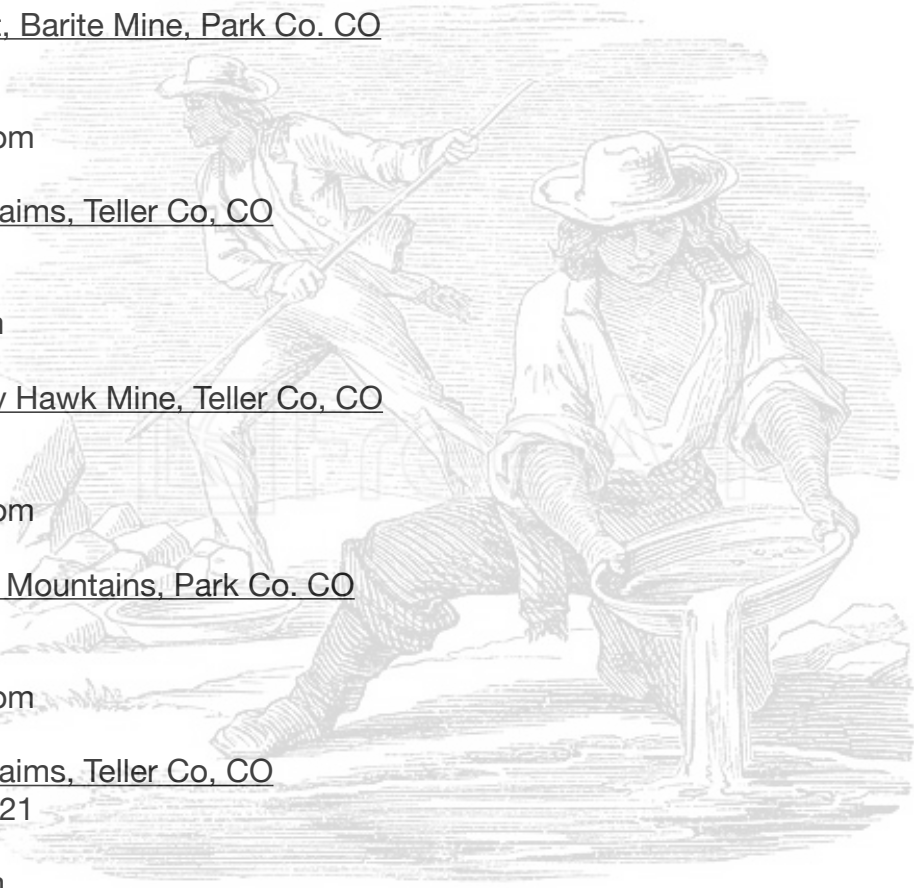
Contact : [mwebbstudent@yahoo.com](mailto:mwebbstudent@yahoo.com)

Florissant, Rocky Mountain High Claims, Teller Co, CO

Date : Saturday : September 11, 2021

Leader : John Emery

Contact : [csmseditor@hotmail.com](mailto:csmseditor@hotmail.com)



## Rock Hound of the Year 2020 Nominations

Two individuals have been nominated for "Rock Hound of the Year" for 2020:

- John Emery, CSMS Editor, for tireless efforts producing the newsletter
- Chris Burris, CSMS Member-at-Large, for two extraordinary paleontological finds



If you want to register an additional nomination, please contact the editor:

[csmseditor@hotmail.com](mailto:csmseditor@hotmail.com)



United  
States  
Department  
of  
Agriculture

## Rockhounding, Prospecting, and Fossil Hunting on the Pike - San Isabel National Forests, Cimarron - Comanche National Grasslands (PSICC)



Your national forests and grasslands are a great place to experience a wide range of recreational opportunities. Prospecting, rockhounding, and fossil hunting are among the many outdoor pursuits visitors enjoy on the PSICC.

### What is prospecting, rockhounding, and fossil hunting?

**Rockhounding** involves the searching and collection of small quantities of common variety rocks, gems, or other geologic materials for personal use or enjoyment.

**Prospecting** is searching for valuable minerals. This can range from collecting hand samples of mineralized rock and gold panning, to using metal detectors and operating small non-motorized sluices as long as they “do not cause significant surface disturbance” 36 CFR 228.4a(1)(iv).

Forest Service mining regulations listed at 36 Code of Federal Regulations (CFR) 228, Subpart A and C, govern prospecting and rockhounding activities.

**Fossil hunting** allows the collection of petrified wood, invertebrate and plant fossils for personal use. Invertebrate fossils, such as clams, do not have an internal skeleton. Collection of vertebrate (has internal skeleton) fossils requires a permit (36 CFR 261.9i). The rules for petrified wood collection are found under 36 CFR 228, Subpart C.

Be advised that unauthorized collection of archaeological artifacts, such as arrowheads, old bottles, other historic artifacts etc. is prohibited on National Forest lands.

### How can I determine if a permit is required for my forest activities?

Prospecting, rockhounding, petrified wood, and invertebrate and plant fossil hunting usually do not require a permit when there is little or no disturbance to the ground, other resources, and environment. Check with the local ranger district if you have questions on whether a permit may be needed. For example, a free use permit may be required for removal of mineral materials. A Notice Of Intent (NOI) for prospecting activities which might cause significant disturbance should be submitted to the District Ranger. In part, this means if you plan to:

- Use explosives
- Use power equipment for excavation
- Drive vehicles off public roads or trails
- Clear or remove vegetation
- Store petroleum products or other hazardous or flammable material near streams

Based on the complexity (or scope) of your proposal as stated in the NOI, a Plan of Operation may be required. Forest users should be sensitive to how their activities affect the environment. Rockhounds and prospectors need to carefully refill and vegetate any excavation, no matter how small.

Water quality and fish habitat are critical concerns on national forests and grasslands, so activities in or near streams must be handled with special care. Consideration should also be given to possible cumulative effects when you do the same activity year after year in the same place.

Any sale or commercial use of petrified wood found on lands administered by the Forest Service requires a permit. A free use permit is required for amateur collectors and scientists to take limited quantities for personal use.

### Are all national forest lands available for prospecting?

**NO.** Some areas may be excluded, even from non-commercial activities. Examples include:

- Wild and Scenic River corridors
- Historical or archeological sites
- Campgrounds
- Wilderness Areas
- Administrative sites
- Areas “withdrawn” from mineral entry



In addition, you should not work on someone else’s “mining claim” without permission. Claimants have rights to valuable mineral deposits on those sites. Claim information can also be found at [www.blm.gov/lr2000](http://www.blm.gov/lr2000).

### Are there any special restrictions that apply to suction dredging?

State and federal permits may be required. Please contact the State of Colorado, Division of Reclamation, Mining, and Safety (DRMS) or review the following website which has more information related to state guidelines: <https://mining.state.co.us/SiteCollectionDocuments/SuctionDredges.pdf>.

Also, because of the potential effects to streams and fish habitat from suction dredging activities, a NOI should be submitted to the appropriate District Ranger to determine if a plan of operations is necessary.

Forest  
Service  
PSICC



The Forest Service regulations apply even if you are a member of a group, such as the of Gold Prospectors Assn. of America. In Colorado waterways, your NOI will only apply to the specific area you designate and the actual dates you propose to the agencies.

### Where should I go to enjoy prospecting, rockhounding, and fossil hunting on the national forests?

The PSICC does not have formally designated mineral collecting areas. However, local groups and rock shops can provide more information. There are also several books on rockhounding in Colorado.

Fossils vary in abundance depending on the age of the rocks exposed at the surface. Check with the Forest Service offices listed for geologic and fossil information.

**For safety reasons, do not go into abandoned mines!**



### General Guidelines for Mining and Ground Disturbance on Land Managed by the PSICC

If your Operation:	You will need:	From
Will cause little or no surface disturbance (e.g., gold panning, fossil hunting, and rockhounding).	No permit or Notice of Intent is needed — although some restriction may apply depending on the area. Check with the Ranger District.	Forest Service
Will involve collecting less than 1/4 ton of flagstone, rubble, sand, gravel, or similar material by hand for personal (noncommercial) use.	A Free-Use Permit for the mineral material is needed. Check with the Ranger District.	Forest Service
Uses a small sluice or rocker box.	May require a Notice of Intent May require a Notice of Intent	Forest Service DRMS
Uses a suction dredge with up to a 4" suction hose.	Plan of Operations Reclamation Permit Other federal and state permits might apply	Forest Service DRMS
Uses motorized earth moving equipment and/or will likely cause significant surface disturbance.	Plan of Operation Other federal and state permits might apply	Forest Service
*Depending on location land ownership, and scope of operations, a Notice of Intent could be elevated by the District Ranger to a Plan of Operations and which could lead to an environmental analysis, involvement of additional agencies, and/or additional permits.		

### Where do I go for more information?

The best way to ensure a bright future for recreational prospecting, rockhounding, and fossil collecting on public lands is to comply with state and federal regulations. Start by bringing your questions or concerns to any appropriate agency in the area you plan to work. Call one of the District Offices below to get connected with the appropriate ranger district or to get copies of the Code of Federal Regulations that apply.

<b>Leadville Ranger District</b> 810 Front Street Leadville, CO 80461 (719) 486-0749	<b>San Carlos Ranger District</b> 3028 East Main Street Canon City, CO 81212 (719) 269-8500	<b>South Park Ranger District</b> 320 Highway 285, P.O. Box 219 Fairplay, CO 80440 (719) 836-2031	<b>Cimarron National Grassland</b> 242 East Highway 56 Elkhart, KS 67950 (620) 697-4621
<b>Salida Ranger District</b> 5575 Cleora Road Salida, CO 81201 (719) 539-3591	<b>Pikes Peak Ranger District</b> 601 South Weber Street Colorado Springs, CO 80903 (719) 636-1602	<b>South Platte Ranger District</b> 30403 Kings Valley Dr. Suite 2-115 Conifer, CO 80433 (303) 275-5610	<b>Comanche National Grassland</b> 27204 Highway 287/ P.O. Box 127 Springfield, CO 67950 (719) 523-6591
<b>PSICC Supervisor's Office</b> 2840 Kachina Drive Pueblo, CO 81008 (719) 553-1400	<b>State of Colorado, DRMS</b> 1313 Sherman Street, #215 Denver, CO 80203 (303) 856-3567	<b>Bureau of Land Management</b> 3028 East Main Street Canon City, CO 81212 (719) 269-8500	

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2500 (voice and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.



## **“Code of Ethics”**

A large measure of the enjoyment of our hobby consists of collecting in the field. For that reason, the members are proud to endorse the following:

**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 all 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.**



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**CSMS is an incorporated nonprofit organization with these 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](http://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](http://www.amfed.org)
- Rocky Mountain Federation of Mineralogical Societies (RMFMS) [www.rmfm.org](http://www.rmfm.org)