



**Colorado Springs
Mineralogical Society**
Founded in 1936
Lazard Cahn
Honorary President
"Pick & Pack"
Vol 61 Number 3

CSMS General Assembly
Thursday, Apr 15, 2021, 7:00 PM

GUEST SPEAKER:
Amy Titterington
"Finding Mine Locations"

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

Meeting ID: 814 0395 9149
Passcode: 256534

+13462487799,,81403959149#,,, *256534# US (Houston)
+16699009128..81403959149#.... *256534# US (San Jose)



In this issue...

Upcoming Events	2
Secretary's Spot	3-4
Federation News Post	5-6
Pebble Pups	7
Short article - S.W. Veatch, "An Early View Down Pike's Peak Avenue"	7
Article - M. Nelson, "Legrandite from Mexico: the Holy Grail"	8-11
Presidential Matters	12
Classifieds/ announcements	13-14

April is National Poetry Month - submit your poems to the editor

**national
poetry month**

The Musicians

Steven Wade Veatch

Solemn as barn owls,
they start to play.
Music fills the air
and melodies
bathe the souls
of miners who
once worked,
dreamed, loved
and lived.



This photo stops time for three teenage musicians who are dressed up and performing in front of a building in Cameron, a town in the Cripple Creek Mining District. *Photo date circa 1896, courtesy of the Cripple Creek District Museum.*

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

CSMS Calendar

Apr '21	May '21						
04/06/21	05/04/21	Fossil Group	1st Tues	7:00 PM	Pikes Peak United Methodist Church	Jerry Suchan	303-648-3410
04/01/21	05/06/21	Board Meeting	1st Thur	7:00 PM	Pikes Peak United Methodist Church	John Massie	719-338-4276
04/15/21	05/20/21	Pebble Pups (see session online)	3rd Thur	5:30 PM	Mt. Carmel Center	Steve Veatch	719-213-1475
04/15/21	05/20/21	General Assy Meeting	3rd Thur	7:00 PM	Mt. Carmel Center	John Massie	719-338-4276
04/22/21	05/27/21	Crystal Group	4th Thur	7:00 PM	Mt. Carmel Center	Kevin Witte	719-638-7919
04/22/21	05/27/21	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)

General Assembly Meeting 15 Apr 21 7:00 PM
 Board Meeting 6 May 21 6:00 PM

Apr 10 10 AM - 3 PM Family Day at Western Museum of Mining and Industry (WMMI). Geology - themed activities and demonstrations for the family. Accompanied by a live broadcast of Mike Boyle's "Lunch Bunch" Radio Show (11 AM - 2 PM). Food provided by Rocco's Italian food truck - super delicious Italian food. Supported by wonderful volunteers from our wonderful CSMS. Wonderful day for the family! Check other amazing happenings at WMMI: <https://wmmi.org/welcome.html> IT'S LOCAL! Just off North Gate Blvd.

Community Events (from Pete Modreski)

Apr 13 6:30 PM Monthly lecture via Webex of the Friends of the Mines Museum, "A virtual tour of the rock collection of the National Museum of Natural History," by Leslie Hale, National Rock and Ore Collections Manager and Collections Management Team Lead, Department of Mineral Sciences, National Museum of Natural History, Smithsonian Institution. Leslie will describe the rock collection on a virtual tour using photographs and stories from her experiences over the past three decades. All welcome to attend; login information TBA.

Apr 15 7:00 PM Monthly meeting via Zoom, Colorado Scientific Society, Teresa Schwartz (CSM) "Fluvial deposits of the Raton Basin: Implications for paleotopography and paleoclimate."

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>

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

March 18, 2021

Meeting called to order by John Massie at 7:00 pm.

Presentation by Melanie McCalmont on 3D mapping.

Adelaide Bahr had no new members to mention.

Officer Reports

- President (John Massie): informed the membership that Steven Veatch will be stepping down as leader of the Pebble Pups, but will be willing to help a new leader assume the role. Julie Hudak-Salvat expressed willingness to help someone who's strong in geology to replace Steven. John also stated that there are sufficient volunteers for the CSMS tables at the WMMI Family Day; he will be in touch about specifics.
- Vice President (Rick Jackson): reminded John Massie that he (Rick) still needs the VP binder.
- Treasurer (Ann Proctor): nothing to report.
- Secretary (Francis Nimick): nothing to report.
- Membership Secretary (Adelaide Bahr): input provided earlier in the meeting.
- Editor (John Emery): communicated that he has advertised the WMMI Family Day in the Pick and Pack, and will continue to do so.
- Members at Large (Chris Burris, Renee Swanson): Chris not present; Renee had nothing to report.
- Past President (Sharon Holte): summarized information about the third largest quartz crystal found in Colorado (now at WMMI). Mentioned that tentatively there will be 11-13 field trips in 2021; asked for volunteers for trip leaders. Once leaders are identified, the schedule will be developed and issued.
- Website Coordinator (Lisa Cooper): not present.

Satellite Groups

- Crystal Group (Kevin Witte): not present.
- Faceting Group (John Massie): has several people interested in learning faceting. John is taking the machine to individual houses and working with folks one-on-one.
- Pebble Pups (Steven Veatch): not present.
- Fossil Group (Jerry Suchan): not present, but Adelaide Bahr reported that there had been no meetings.

**CSMS General Assembly
Meeting Minutes (Con't)
March 18, 2021**

- Jewelry Group (needs a chairperson)
- Lapidary Group (Sharon Holte): by appointment only; please call Sunday evening after 6:30 pm. Sharon mentioned that the space needs to be cleaned of materials destined for recycling.
- Field Trip Coordinator (Mike Webb, Sharon Holte): status summarized earlier in the meeting.

Liaisons

- Claims (Frank Rosenberg): nothing to report.
- Social Coordinator (Mark Schultz): not present.
- Store Keeper (Ann Proctor): nothing to report.

Unfinished Business

- John Massie stated that he still needs to send the three proposed changes to the CSMS constitution out to the membership to vote on the changes.

New Business

- None.

Meeting was adjourned at 8:22 pm.

Respectfully submitted,
Fran Nimick, Secretary

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



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.



Federation News Post

American Federation of Mineralogical Societies
Rocky Mountain Federation of Mineralogical Societies



2021 National Youth Poster Contest: “Rockin’ Around the USA”

By Michelle Cauley & Jim Brace-Thompson, AFMS Junior Programs Chair

Calling all artists! The North Lakes Academy Rockhounds of the Midwest Federation of Mineralogical and Geological Societies is hosting a National Youth Poster Contest. It is open to any kids in 1st through 8th grade across all seven AFMS regional federations and beyond. The theme is “Rockin’ Around the USA.” Participating kids should pick a rock or mineral found in the USA that they are passionate about, create a poster about it, and provide a brief explanation of why they like that particular rock so much. OR they can pick a location in the USA where they LOVE to go rockhounding and craft a poster around that while providing a brief write-up about where it is, what they have found, and why others should go there.

Posters will be judged by grade level with ribbons and prizes awarded for 1st through 5th place in each grade. Overall Champions will also be selected and will receive a prize.

Here are the rules:

- All entries must be presented on 12”X18” paper.
- Include name, address, and school grade of participant on BACK of the poster.
- A title should be on the FRONT of the poster.
- Artwork can be done by pen, ink, crayons, magic markers, paint, print, photography or any other artist’s medium, but no three dimensional posters will be accepted.
- Accompany the poster with the background information requested in the 1st paragraph above.
- Posters will not be able to be returned.
- Posters postmarked after the deadline will not be accepted. (Please allow a week for mailing.)
- All entries become property of the North Lakes Academy Rockhounds and AFMS.

Judges will award points as follows: 30 points for originality and art work; 10 points for title (including theme organization, design, spelling, grammar); and 20 points for background information, facts, and details provided.

Posters and accompanying background info should be sent to Michelle Cauley, c/o North Lakes Academy Rockhounds, 4576 232nd Street North, Forest Lake, Minnesota 55025. Entries must be postmarked by May 1, 2021. Direct any questions to Michelle by email at mcauley@northlakesacademy.org and see further contest information on the AFMS website at <http://www.amfed.org/kids.htm>

Please help spread the word to your local clubs, to junior activity leaders, and to the kids themselves!



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>

An Early View Down Pikes Peak Avenue

Steven W. Veatch

An early photograph of Pikes Peak Avenue in Colorado Springs, taken by A. J. Harlan in the mid-1890s, has survived over 12 decades. Pikes Peak and Cameron Cone are in the photograph's background. The muddy street, trolley tracks, and trees draw the viewer's eye down to where the first Antlers Hotel sits. Pikes Peak and Cameron Cone reflect in a shallow pool of water from a recent rain shower in the center of the photograph's foreground.

The photographer, A. J. Harlan, operated a photography studio in Cripple Creek. He roamed around the area and photographed many of the iconic spots of the Pikes Peak region.



View of Pikes Peak Avenue (Colorado Springs) in the mid-1890s. The Antlers Hotel is at the west end of the street. General William Jackson Palmer, the founder of Colorado Springs, built the Antlers in 1883 with Castle Rock Rhyolite. The hotel burned down in 1898 and was rebuilt. *Photograph by A.J. Harlan. From the Eugene L. Glew photograph collection, courtesy of the Cripple Creek District Museum.*

Legrandite from Mexico: The Holy Grail

Mike Nelson
csrockguy@yahoo.com

The July/August 2020 (Vol. 95, No. 4) issue of *Rocks and Minerals* had a great article entitled *Legrandite: Ojuela Mine, Mapimi, Durango, Mexico* written by Malcolm Southwood and Peter Megaw. It tells a fascinating story about finally discovering the Type Locality of legrandite (Flor de Peña Mine, Nuevo Leon, Mexico), the mining engineer who furnished the name (Louis Charles Antoine Legrand; 1861-1920), and stories about beautiful specimens from the more famous Ojuela Mine. Flor de Peña Mine is a small excavation without much history that essentially is known only as the Type Locality for legrandite. My first specimen was picked up at Ackley's Rock Shop in Colorado Springs before it closed several years ago; however, at one time it belonged to Willard Wulff (1904-1998) a well-known micromounter in Colorado Springs, a Charter Member of the Colorado Springs Mineralogical Society, and a "student" of Lazard Cahn. The Wulff name is on the micromount box and a label said, "Flor de Peña Mine, Lampazos de Naranjo, Nuevo Leon/Mexico/TYP." Since it was for sale in a rock shop, I suspect someone may have acquired it from Wulff and it then went to Ackley's. I do not have the slightest idea how Wulff acquired the specimen (most likely not self-collected) except probably by trading or buying. Another possibility might be a purchase or trade from one Louis Pardo who operated Pardo's Rocks and Minerals in Tucson, Arizona, from 1948-1972. The slight clue is that I acquired a second legrandite micromount at the Wulff estate sale (a few

years ago) stating it was collected from Santa Eulalia, Mexico, with the names Wulff and Pardo affixed as the label. I presume this means that Wulff acquired the specimen from Pardo.

Legrandite is a hydrated zinc arsenate [$\text{Zn}_2(\text{AsO}_4)(\text{OH})\cdot(\text{H}_2\text{O})$] and a very collectable specimen due to its color and rarity. The prismatic crystals are usually a beautiful bright- to wax- yellow color (perhaps ranging to dull orange and rarely colorless) with a vitreous luster and striations. They are translucent to transparent depending on depth of color. Crystals have a conchoidal fracture and are quite brittle, so collectors are careful with mounting. Hardness has been measured at ~4.5 (Mohs). Crystals occur as singles or sprays. Most legrandite crystals are small and less than 1.0 to 0.5 cm in length. Like its zinc arsenate relatives, legrandite is a secondary mineral from the oxidized zone where zinc- and arsenic- bearing primary minerals provide the metallic cations.

Southwood and Megaw (2020) describe the Flor de Peña legrandite prismatic crystals as having blunt dome and pinacoid terminations and occurring "on a dull reddish-orange, brown gossanous matrix of massive to botryoidal smithsonite." However, I am somewhat confused as to the matrix! The matrix on my specimen is not a ferruginous gossan and is more of botryoids composed of very tiny, sparkly green crystals. There are several photos in MinDat.com that are similar to mine. For example, Jordy Fabre states: "Nice miniature with prismatic crystals [legrandite] on Smithsonite matrix that we analyzed [green]." Robert Lavinsky has a

photo of: “gem legrandite crystal rosettes are very aesthetically clustered or isolated on the undulating, layered latticework of tiny sparkly, gemmy, dark olive-greenish sphalerite crystals.” Paul de Bondt states, “Yellow legrandite crystals on dark green smithsonite.” I simply cannot identify these small crystals. What I do recognize is that many collectors believe legrandite specimens from the Type Locality are quite rare.



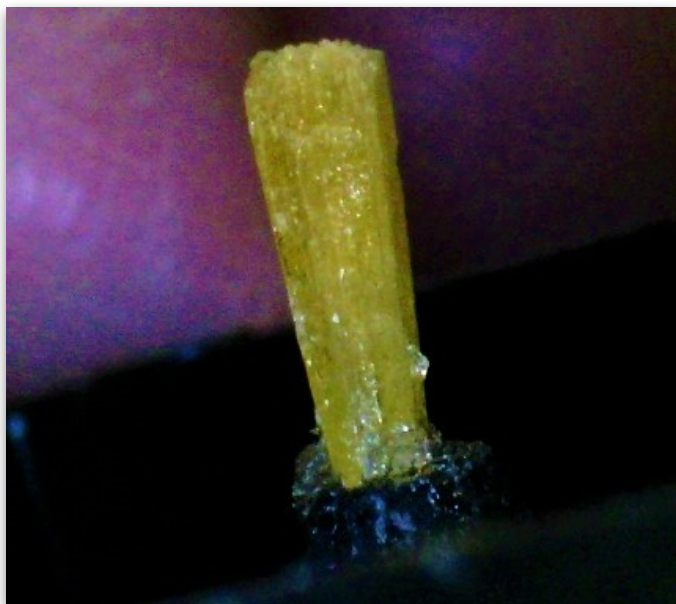
Above: Legrandite crystals on tiny green crystals (see text). Width FOV ~7 mm on bottom photomicrograph and ~ 9 mm top. Crystals are somewhat more yellow in real life. Best the digital camera could do with vitreous crystals.

Photos: M. Nelson

The most widely known legrandite specimens are from the Ojuela Mine at Mapimi, Durango, Mexico. Southwood and Megaw (2020) noted that “Ojuela mine legrandite is commonly more

gemmy, more lustrous, and more elongate with prominent sharp elongate dome terminations....Ojuela legrandites are widely considered as one of the ‘holy grails’ for collectors of Mexican, if not worldwide, minerals.” But unfortunately, I do not have a holy grail Ojuela legrandite.

The second legrandite specimen, the Wulff-Pardo specimen, that was collected at “Santa Eulalia” is a single 9 mm spray of tightly packed, single crystals each with a flat termination; all are striated and sort of a dull orange color. Here is the problem: Southwood and Megaw (2020) note that the “Inglaterra Mine in the Santa Eulalia District ...is the final Mexican legrandite locality, although the species is only known from five or six specimens collected here in 1986.” I am convinced that the Wulff-Pardo specimen was collected before 1986! Is this a seventh specimen, or is the locality information on this original Perky Box mislabeled? That is one of life’s persistent questions and far above my pay grade for a definitive answer.



Above: The Wulff-Pardo legrandite from “Santa Eulalia” mounted on pedestal in Perky Box. Height ~9 mm.

Photo: M. Nelson

Whoa, hold the press due to a serendipitous discovery! The Free Dictionary defines serendipitous as: *making fortunate discoveries while searching for other things*. The heirs of long time CSMS member Laurann Briding consigned her collection of rocks and minerals to Rebecca Nohe Estate Sales, a local firm that dispersed the collection on August 7-10 2020 (see October and November 2020 issues of the Pick & Pack). I was hesitant about attending due to high numbers of Covid-19 in the city; however, a limited number of potential buyers were allowed in at any one time for a 30-minute viewing/purchase (by appointments only) and masks were required of all persons entering the premises. So off I go to see the goodies and what did I notice but a specimen of the holy grail!

Yep, a legrandite specimen in the consignment contained a number of nicely terminated crystals from Mina La Ojuela, Mapimi, Durango, Mexico. The specimen was originally purchased from the Mineral Adit Rock Shop in Colorado Springs for \$60; however, I picked it up for \$4. It is not often that collectors can have a holy grail mineral for a nice four bucks. Wow. So now I have legrandite specimens from all three locations in Mexico and I'm happy as a lark!

Right column: Several photomicrographs of legrandite crystals on botryoidal smithsonite and ferruginous goossan matrix purchased at the Briding Estate Sale. Prismatic crystals range from ~.5 to 2 mm. Photos: M. Nelson



Below: Additional photomicrographs of legrandite crystals on botryoidal smithsonite and ferruginous goethite matrix purchased at the Briding Estate Sale. Prismatic crystals range from ~.5 to 2 mm. *Photos: M. Nelson*



As noted above I am happy as a lark! Ah, another one of my favorite idioms: Why do people say happy as a lark? It simply is derived from the birdsong of the lark. When you listen to the lark's birdsong, it sounds very happy, and thus the phrase "happy as a lark." It connotes a sort of released abandon of happiness, fully embraced and unguarded. As a native Kansan I was fortunate to commonly hear the song whistled by the Western Meadowlark, the official State Bird. It always brought a little cheer to my heart.



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:

Hello!

I am glad to see an increase in participants in our Zoom meetings and I'm looking forward to seeing people at Family Day at the WMMI on April 10, 2021 (see advertisement on next page).

We are looking for a new pebble pup leader. The current leader, Steven Veatch, will help the new leader as much as he can.

Also, we still need a new leader for the silver group.

If interested in either of these positions, contact me at jsmassie1075@gmail.com

John



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:
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.

Classifieds and Announcements

FAMILY DAY!

Western Museum of Mining and Industry
 North Gate Blvd South of AF Academy



Photo: Western Museum of Mining and Industry

Apr 10 10 AM - 3 PM

- Geology - themed activities and demonstrations for the family
- Live broadcast of Mike Boyle's "Lunch Bunch" Radio Show
- Food provided by Rocco's Italian food truck - super delicious Italian food! *Viva L'Italia!*
- Supported by wonderful volunteers from our wonderful CSMS
- Check other amazing happenings at WMMI: <https://wmmi.org/welcome.html>
- **IT'S LOCAL!** Just off North Gate Blvd south of the AF Academy.
- Bring a mask; COVID restrictions apply

Classifieds and Announcements

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

Rocks and Slabs for Sale

An additional set of rock slabs for sale, by Eric Johnson, Evergreen CO, 720-878-5446. Most are from Oregon, Wyoming, Mexico, Nevada and California. Most were purchased from Hi Desert Craft Rock Shop in Lakeview, Oregon in 1979 for the purpose of making jewelry. Prices have been discounted by approximately 25% off the regular cost found at a rock/slab supply store. Plus there is significant savings from no postage costs. Eric is willing to deliver slabs to an interested buyer.



Eric Johnson
Evergreen CO
720-878-5446

Eric Johnson
Evergreen CO
720-878-5446





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



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. 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.rmfm.org