



THE BULLETIN OF THE COLORADO SPRINGS MINERALOGICAL SOCIETY Published Since 1960

Colorado Springs  
Mineralogical Society  
*Founded in 1936*  
Lazard Cahn  
Honorary President  
April 2019  
**PICK & PACK**  
Vol 59 Number 3

## CSMS General Assembly

**Thursday, April 18, 7:00 PM**

**Speaker: Jerry Suchan**

**Topic: "CSMS Study Group's Collection of Fossils at Glen Erie in August 1994"**

**Please note: Members whose names begin with M-Z are responsible for refreshments in April**

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

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### APRIL PROGRAM

Fossil Group leader Jerry Suchan is giving a presentation on some previously collected fossils from a Glen Erie group trip some time ago. Jerry has been part of the Colorado Springs Mineralogical Society since 1982 and holds the Fossil Group meetings on the first Tuesday of the month at Pikes Peak United Methodist Church, 2927 W Pikes Peak Ave. (Corner of W Pikes Peak Ave & S 30th St) Colorado Springs CO 80904



### **\*\*\*NOTICE\*\*\***

We **strongly** encourage members to bring their recent mineral acquisitions to the meeting for buying/selling/trading/discussion purposes however THE SALE or DISCUSSION of these specimens while the meeting is in progress or during a presentation cannot continue! Acoustic properties inside the general assembly meeting room do not lend themselves to people who may be hard-of-hearing and attempting to follow along with a speaker's presentation.

Business may be conducted before or after the meeting. As a tail gate session, but not during the meeting or in the building.

Thank you for being respectful to all members present during the presentation portion and business meeting and allowing our hobby to be enjoyed by people of all ages and abilities!

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

# CSMS Calendar

## March & April 2019

- Thu. **Apr 4, May 2** ----- **Board Meeting** 7p.m., Pikes Peak United Methodist Church
- Tue. **Apr 2, May 7** ----- **Fossil Group** 7p.m., Methodist Church, Jerry Suchan, 303 648-3410
- Thu. **Apr 18, May 16** ---- **Pebble Pups & Jrs** 5:30p.m., Mt. Carmel Ctr., Steve Veatch, 719 748-5010
- Thu. **Apr 18, May 16** ---- **General Assembly** 7p.m., Mt. Carmel Center
- Thu. **Apr 18, May 16** ---- **Show Meeting** 6:15pm Mt. Carmel Center, Lisa Kinder
- Thu. **Apr 25, May 23** ---- **Crystal Group** 7p.m., Mt Carmel Ctr. Kevin Witte, 719 638-7919
- Thu. **Apr 25, May 23** ---- **Faceting Group** 7p.m., at the Medina home John Massie, 719 338-4276
- Appointment Only ----- **Jewelry Group** Bill Arnson, 719 337-8070
- Appointment Only ----- **Lapidary Group** Sharon Holte, 719 217-5683

For more information on any of the sub-groups, meetings, and other CSMS valuable information, go to our website: [www.csms1936.com](http://www.csms1936.com)

## Upcoming Events of Interest to CSMS Members

Submitted by Pete Modreski

### Calendar of Coming Events

*Unless as noted, all of these societies' and institutions' lecture series are free and open to the public:*

**Mon., Apr. 1, 11:30 a.m.-1 p.m.**, at the weekly meeting of the Denver Mining Club, **"Mining History of Jefferson County, Colorado"**, by Pete Modreski, USGS. At the Golden Corral Buffet, 3677 S. Santa Fe Dr., Sheridan (west side of Santa Fe Dr., south of Hampden). Purchase of lunch is required.

**Mon., Apr. 1, 7:00 p.m.**, **The Leadville Limestone-The Magic Rock of Central Colorado**, by Ed Raines; Collections Manager, Colorado School of Mines Geology Museum at the Western Interior Paleontological Society meeting, Lowry Conference Center 1061 Akron Way, Denver.

**Tues., Apr. 2, 10:30 a.m.**, USGS Rocky Mountain Science Seminar, **"Dynamics of mud volcanoes and geysers"**, by Max Rudolph, Univ. of California-Davis. Building 25 auditorium, Denver Federal Center; visitors are welcome. Enter Building 25 at entrance E-14, by the security guard's station.

**Wed., Apr. 3, 3:00 p.m.**, Denver Museum of Nature & Science, Earth Sciences Colloquium, **"The evolution of plant-mite mutualisms: Clues from the DMNS collections"**, by Gussie MacCracken, Univ. of Maryland. VIP Room, DMNS; all are welcome, museum admission is not required.

**Wed., Apr. 3, 7:00 p.m.**, Friends of the CSM Geology Museum monthly lecture will be **"Outstanding Minerals of Colorado's Metallic Ore Deposits: A Brief Review"**, by Philip Persson. In the CSM Geology Museum, room 201, 1310 Maple St., Golden, CO. Socializing begins at 6:30 p.m. and the talk will start at 7:00 p.m. Admission is free and all are welcome.

**Fri., Apr. 5, 3:00 p.m.**, Denver Museum of Nature & Science, Earth Sciences Colloquium, **"Exceptional fossils in carbonate concretions: Why they form and what they can tell us"**, by Tory McCoy, Univ. of Leicester. VIP Room, MNS; all are welcome, museum admission is not required.

*(Continued on page 3)*

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**Tues., Apr. 9, 6:30 p.m.,** Golden Beer Talks, **Christina Burri, Watershed Scientist, Denver Water**, will discuss Denver Water's proactive investments in forest and watershed health to protect the source water for 1.4 million people in the Denver Metro Area. She will share the lessons learned in being reactive to high intensity wildfires, such as the Hayman and Buffalo Creek fires, and how Denver Water is experiencing a return-on-investment on proactive forest and watershed management". Windy Saddle Café, 1110 Washington St., Golden. Doors open at 6; no charge other than food or drink you may purchase. For more info see <http://goldenbeertalks.org/>.

**Fri., Apr. 12, 6:45 p.m., North Jeffco Gem & Mineral Club Silent Auction**, all welcome (setup begins at 5:30). APEX Community Recreation Center, 6842 Wadsworth Blvd., Arvada. For more info, Bill Jones, 303-503-6288

**Fri.-Sat.-Sun., Apr. 12-14, Colorado Mineral and Fossil Spring Show**, Crown Plaza Hotel /Convention Center, 15500 E 40th Ave., Denver, Colorado, **10-6 Fri. & Sat., 10-5 Sun.**, free parking & admission.

**Thurs., Apr. 18,** Colorado Scientific Society annual dinner meeting, at Mount Vernon Canyon Club, 24933 Clubhouse Circle, Golden [Lookout Mountain] with a presentation, **"Kilauea's 2018 eruption - new methods and perspectives for monitoring volcanic eruptions"**, by Jeff Sloan and Don Becker, USGS. You may attend the dinner, or just come afterward for the presentations. Social gathering at 5:30, dinner at 6:00, program at 7:00. To make reservations see [www.coloscisoc.org](http://www.coloscisoc.org).

**Mon. & Tues., Apr. 22 & 23,** a pair of short **Geology/Nature Hikes for Earth Day** (which of course is always April 22), on the **Table Mountains, Golden**. Monday, Apr. 22, a hike to the **waterfall on the east side of North Table Mountain**; meet at 5:00 p.m. at Tony Grampas Park, Salvia St. off W. 44<sup>th</sup> Ave., Golden. Tuesday, Apr. 23, a hike to the top of **"Castle Rock" on South Table Mountain**; meet at the trailhead at 18<sup>th</sup> St. & Belvedere St., Golden (take 19<sup>th</sup> St. east till it dead-ends at the foot of the mountain; jog left on Belvedere, park between 19<sup>th</sup> & 18<sup>th</sup> Streets. Let by USGS geologist Pete Modreski. Open to the public—anyone who would like to come. Each hike should take 2 hours or less, up & back; return by dusk. For more info or if weather is questionable, contact [pmodreski@usgs.gov](mailto:pmodreski@usgs.gov), office 303-202-4766, cell 720-205-2553.

**April 25-28, Dinosaur Ridge, 30<sup>th</sup> Anniversary Celebration Events**; Thursday through Saturday, include Jurassic Park Movie Night at the Alamo Drafthouse; Walk with a Scientist Tours; Spotlight on Science talk at the Origin Hotel Red Rocks; Community Carnival in the Cretaceous; and 30<sup>th</sup> Anniversary Gala Event at Origin Hotel. For full information on all these events, see <http://dinoridge.org/tours-programs/30th-anniversary-celebration/>

**Sat., May 5, 11 a.m. to 2:45 p.m., Colorado Mineral Society Silent Auction**, Holy Shepherd Lutheran Church, 920 Kipling St., Lakewood. Checkout begins at 2:45 p.m.; all are welcome; for more info, see [www.coloradomineralsociety.org](http://www.coloradomineralsociety.org) or contact Ben Geller, 303-550-5993 or email [auction.coloradomineralsociety@gmail.com](mailto:auction.coloradomineralsociety@gmail.com)

**Thurs., May 9, 7:30 p.m.,** Friends of Mineralogy, Colorado Chapter, bimonthly meeting: featuring Ryan Bowling, **The Pala Gem Pegmatite District, San Diego County, California**. Meeting in Berthoud Hall, Room 109, Colorado School of Mines campus, Golden. All are welcome.

**Tues., May 14,** Colorado Scientific Society annual Emmons Lecture, by **Dr. Mark Barton, Univ. of Arizona, Lowell Institute for Mineral Resources**, topic and location TBA. This public presentation will take place in conjunction with a 2.5-day USGS-CSM-CGS joint Mineral Resources Forum.

**Sun., May 19, Friends of Mineralogy, Colorado Chapter, Silent (+Vocal) Auction. 12 p.m. to 4 p.m.,** Clements Community Center, 1580 Yarrow St., Lakewood CO. All are welcome to attend.

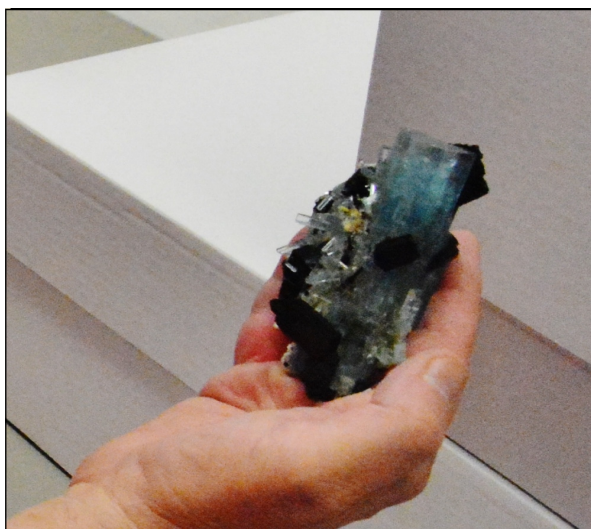
**Fri.-Sat.-Sun., May 31-June 2, Pikes Peak Gem & Mineral Show**, Norris-Penrose Event Center, 1045 Lower Gold Camp Road, Colorado Springs, CO 80905. Sponsored by the Colorado Springs Mineralogical Society.  
**Hours: 12 - 7 pm Fri., 10 - 5 Sat, 10 - 4 Sun.** Adult admission \$5.



## Crystal Group Field Trip to The Collector's Edge, March 28

Our crystal group enjoyed a recent Thursday afternoon viewing exquisite crystal specimens during our tour of The Collector's Edge, one of the world's leading firms in mining, cleaning, repairing, and selling high end crystal specimens.

We thank Phil Persson of The Collector's Edge for hosting our visit and giving us a chance to see the inner workings of this exciting company.



All photos courtesy of Frank Rosenberg

## Mark Your Calendars!!!

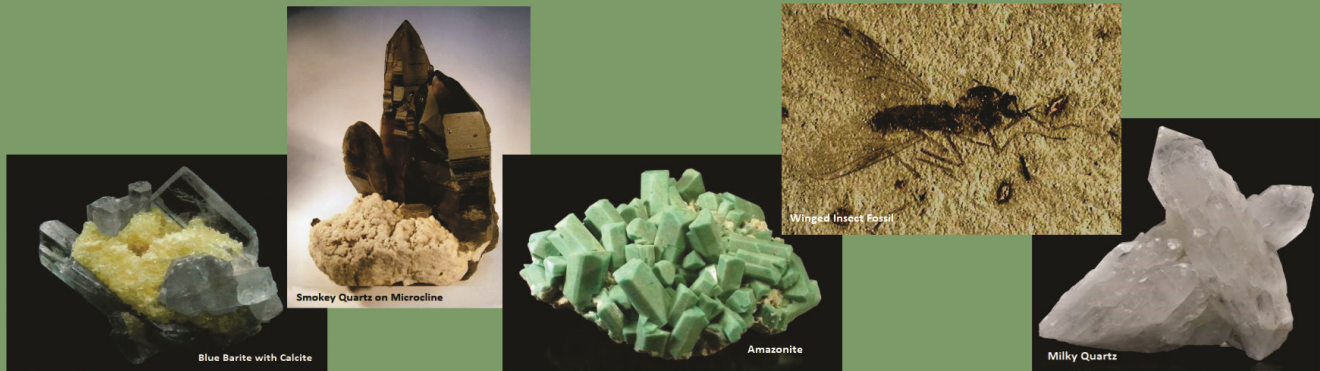
Warmer weather and "Digging Season" will be upon us soon, so make plans now to attend our annual show! If you're new to rock hounding and want to see some spectacular LOCAL specimens - some of which are dug less than 5 miles outside the city limits - then prepare to be amazed at what this small slice of Colorado has to offer!

Are you looking to proudly display some of your recent treasures? There is an Exhibit Application for the show on page 15 which also shows case dimensions which can be reserved now.

The deadline for reserving cases and exhibit spaces is May 22.

If you have any questions about availability or build-up + tear-down times please refer to [ppgmjshow@gmail.com](mailto:ppgmjshow@gmail.com) for further details!

### 56th Annual **Pikes Peak Gem, Mineral, & Jewelry Show** *Featuring: Specimens of Colorado*



Fri., May 31, 2019, 12 pm-7 pm / Sat., June 1, 10 am-5 pm / Sun., June 2, 10 am-4 pm  
Adults \$5.00 / 3-Day Pass \$8.00 / Kids 12 & Under FREE

NORRIS-PENROSE EVENT CENTER, 1045 Lower Gold Camp Road, Colorado Springs, CO

Colorado Springs Mineralogical Society  
[csms1936.com](mailto:csms1936.com)

[PikesPeakGemShow.com](http://PikesPeakGemShow.com)  
[ppgmjshow@gmail.com](mailto:ppgmjshow@gmail.com)



## PEBBLE PUPS CORNER



## CSMS Pebble Pups & Earth Science Scholars

The Earth Science Scholars & Pebble Pups meet at the Mt. Carmel Veterans Center every THIRD Thursday at 5:30 PM until 6:15 PM or so. We only meet during the academic year, and we include January. So, it is Sept through May. Special announcements and field trips are noted on our blog: <http://pebblepups.blogspot.com> and through the CSMS website: <http://www.csms1936.com>

April is National Poetry Month and our Pebble Pups and CSMS Earth Science Scholars have been busy wearing their wordsmithing caps! They were asked to make a visual representation of their poem either with a drawing or picture in order to give the reader a sense of presence. Several poems will be submitted to the RMFMS Editor's Contest later this year and hopefully onwards to the AFMS contest!

### Mountain Hike

Hike in the mountain Looking for pretty crystals Oh look!  
I found quartz.

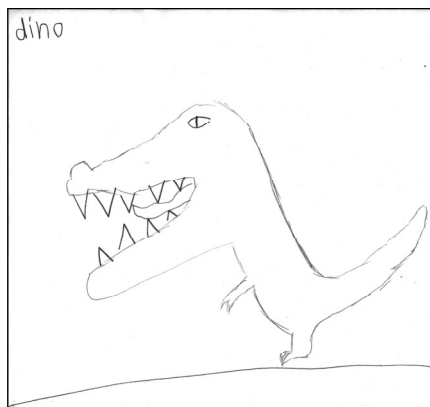
By Cameron Shilling, Pebble Pup, age 8



### Dinosaurs

Dinosaurs eat meat Dinosaurs have lots of teeth  
Dinosaurs eat plants

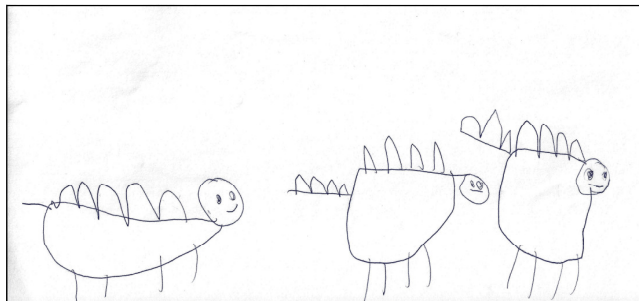
By Beau Trunkhill, Pebble Pup, age 5



### Dinosaurs of the World

Dinosaurs are cool Dinosaurs once ruled the earth  
They are now extinct

By Kai Trunkhill, Pebble Pup, age 8



### Florida Keys

Limestone and coral Build up on the ocean floor  
Seas drop, Keys exposed

By Gavin Seltz, Pebble Pup, age 9



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## **ONLY ME AND THE MOUNTAIN**

by Ben Elick CSMS Earth Science Scholar

I see the rough boulders, weathered, rugged, heavy and imposing.  
I touch the quartz in my hand, aged dirt falling at the rub of my thumb.  
I smell heat on the rocks, baked in the sun, far above the tree line.  
I hear only me and the mountain, a sense of freedom, solitude.  
I taste the dirt as it flings up in my face while digging.  
I see the true sparkle of an uncut gem, the way nature made it.  
I touch the cold dirt, a reminder that the prospecting season is ending.  
I smell my pack, tattered and dusty, ready to see another prospecting adventure.  
I hear my whisper to the mountain, asking for a safe and prosperous day.  
I taste the fresh water from a mountain stream, clean and cold.  
I see respect for the never-ending clash between the mountain and weather.  
I touch gemstones, unearthed with hard work, sweat, and willpower.  
I smell the success and the failure of those before me, coated in hope and aspiration.  
I hear my heart beat, sped up by the thrill of experiencing the mountain.  
I taste success through the power of dogged determination.



## **MAMMOTH GRAVE**

for Estella Leopold, conservationist By Steven Wade Veatch

Melting ice washed glacial gravels down, burying the mammoth, hiding it through the ages. I found a rock at its grave. I broke it, crushed it, sifted it, dissolved it in a beaker, spun it in a centrifuge, and peeled back layers of time. Now only hidden fossils remain, pollen grains and mossy spores that once floated on Ice Age breezes. Now these small fossils yield the deepest glimpse of a world before we came and warn of a future we must face as just outside, the forests change, species die, and life recedes.

## **WEALTH COMES TO JUST A FEW**

1865, Buckskin Mining District, Colorado Territory By Steven Wade Veatch

On the cold mountain of endless time, the pine trees vanish,  
Cut to build a new and brawling Colorado mining camp.  
While beneath the ground, under a blue and cloudless sky,  
Miners work the veins— drill, blast, muck, and haul.

In the timbered workings, deep below the surface,  
A man cage creaks and scrapes as it lowers men down the shaft.  
At the 12th level the shift boss calls out the day's labors and  
Marshals men, methods, and materials to mine minerals.

A miner's faint candle flickers as the mine breathes,  
Casting enough light to penetrate the dark, dank, depths,  
Revealing a shining rich pay streak, just blasted into view.  
In the shadows—where at every turn—death waits to stake a claim.

News of the crushing of young Tom Andrews quickly spreads.  
In the streets of the camp, mining men and townspeople mourn.  
At the graveyard, alongside the river of chance, miners grieve  
his soul.  
As Tom is laid to eternal rest, spirits cry in the soft summer air.

In the air of tears, Tom Andrew's young family weeps.  
His death brings hopelessness to his widow and children  
With no place to go, the frontier family works to cover their woe,  
Picking high-grade ore off the conveyor in the mine's sorting house.

Still new miners come, and others follow over mountain passes  
To replace young Tom Andrews in mines where gold and silver beckons.  
With time the veins vanish - pinch out - and the land begins to speak  
Questioning the dreams of those men who came West.

While under the cover of adventure, they seek easy riches,  
Only to learn the lesson that wealth comes to just a few,  
Hard work to all, death to some; and then the time of man fades,  
And in the quiet, moonless darkness the mountains rejoice.



## TEEN CSMS MEMBER HAIR PRESENTS AT GEOLOGICAL SOCIETY OF AMERICA

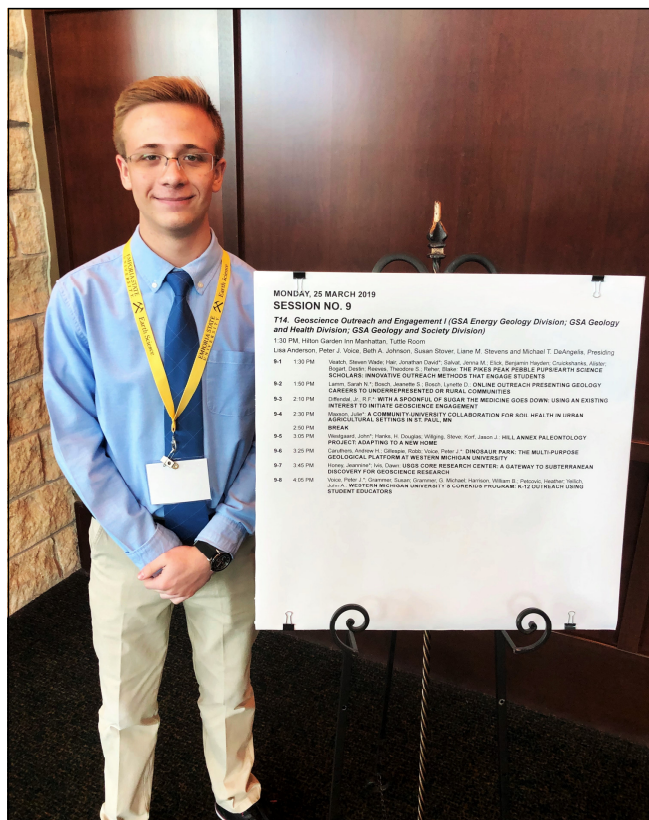
by Steven Wade Veatch

Jonathan Hair, a teen member of the Colorado Springs Mineralogical Society's Earth Science Scholar program, presented a technical paper on Monday, March 25, at the 2019 joint meeting of the South-Central, North-Central, and Rocky Mountain sections of the Geological Society of America (GSA) hosted by Kansas State University in Manhattan, Kansas. The GSA is a professional society that unites thousands of earth scientists world-wide to study the Earth and to share scientific findings. There are over 24,000 members in 115 countries that represent earth scientists from academic, government, business, and industry sectors. Jonathan Hair was the presenting author on a paper entitled "The Pikes Peak Pebble Pups/Earth Science Scholars: Innovative Outreach Methods That Engage Students." His presentation opened the afternoon technical session "Geoscience Outreach and Engagement." The GSA Energy Geology Division, GSA Geology and Health Division, and the GSA Geology and Society Division sponsored this afternoon session. The paper was coauthored with CSMS Earth Science Scholars Ben Elick, Jenna Salvat, and Blake Reher.

Two former CSMS teen members, who are now in college, added to the paper. The GSA Jonathan Hair stands next to the sign that announces the afternoon speakers in his session. Jonathan was the first speaker. Photo by B. Hair. published the paper, or abstract, in Geological Society of America Abstracts with Programs. Vol. 51, No. 2. Jonathan Hair spent endless hours organizing the presentation and writing the script that went with it. Jonathan arrived a day before the conference started and worked on the final details with Steven Veatch, leader of the Earth Science Scholar program for the CSMS. With a commanding presence, Jonathan delivered this talk before an audience of scientists and university professors. A professor from the University of Arkansas wanted more information, as did the director of the Minnesota Extension Service. Jonathan's presentation impressed Robert Diffendal, a GSA Fellow. Dr. Diffendal said, "Jonathan's presentation was practiced and professional." One GSA scientist said Jonathan's presentation was among the best at the conference. At the close of the conference, the Geological Society of America presented Jonathan its Student Award. The award cited his uncommon passion, focus, and technical merit.



Jonathan Hair (L) meets GSA Fellow Dr. Robert Diffendal (R), professor emeritus, Conservation and Survey Division, University of Nebraska, Lincoln. Photo by S. Veatch.



Jonathan Hair stands next to the sign that announces the afternoon speakers in his session. Jonathan was the first speaker. Photo by B. Hair.



## BLACK HILLS PHOSPHATE: MONTGOMERY-ITE; A CONNECTION TO CSMS

Mike Nelson [csrockguy@yahoo.com](mailto:csrockguy@yahoo.com)



The Colorado Springs Mineralogical Society recently celebrated its 82<sup>nd</sup> birthday as the group may be traced to November 24<sup>th</sup>, 1936. A Charter Member of the organization was a young mineral collector by the name of Edwin Over. Mr. Over had recently met a young (b. 1909) and more affluent collector by the name of Arthur Montgomery (from New York) and in 1934 they became business partners and started collecting and selling minerals. Wilson (2018) noted that at times they worked together collecting in the field but often Over worked alone sending specimens back to New York where Montgomery would market them.

They seemed to have remained partners until the early 1940s when Montgomery sold his share and retired from the mineral market business. However, during that 7 year period the two collectors brought to surface an amazing number of world-class specimens including red wulfenite from the Red Cloud Mine in Arizona, epidote from Prince of Wales Island in Alaska, variscite and other phosphates from Fairfield, Utah, and beryl (aquamarine), phenakite, albite, bertrandite and fluorite from the lithium-rich pegmatites on Mt. Antero located southwest of Buena Vista, Colorado. The latter specimens were collected during a six-week period in summer 1938 (Wilson, 2018).

During World War II Montgomery leased/purchased the Harding Mine in New Mexico and brought to surface tantalum, beryllium and lithium that he sold to the U.S. government. Sometime after the War Montgomery donated the mine to the University of New Mexico for use as a teaching experience and mineral collecting area. During Montgomery's time at the Harding all profits went to support various activities in the nearby small town of Dixon.

After the War Montgomery started a Ph.D. program at Harvard and graduated in 1951. He then joined the faculty at Lafayette College in Pennsylvania where he spent his academic career, retiring in 1976. But Art was not finished with living a productive life and for a five-year period he volunteered at the Trinidad State Nursing Home before moving to Albuquerque, New Mexico, where he spent the remainder of his life (d. 1999) working/volunteering at a Christian organization helping others.

Montgomery had a large and fabulous mineral collection that he gave to individuals and institutions including the Smithsonian Institution, Harvard University, Princeton University, the Royal Ontario Museum, and Acadia University. In the early 1970s Montgomery provided financial resources to start the journal *The Mineralogical Record*, and the organization *Friends of Mineralogy*. It also seems that Montgomery was quite interested in botany and was one of the five founders (in 1959) of the *Montgomery Botanical Center* in Florida and served them until his death.

If interested in additional information about Montgomery's life see Volume 8, Number 2 (2000) edition of *The Matrix, a Journal of the History of Minerals*.

In 1940 E.S. Larsen of Harvard University described two new minerals collected from phosphate nodules near Fairfield, Utah. Larsen had been working and describing minerals from this area for at least a decade and finally "got around" to formally naming the hydrated calcium magnesium aluminum phosphates: overite  $[\text{CaMgAl}(\text{PO}_4)_2(\text{OH})\cdot 4\text{H}_2\text{O}]$  named for Edwin Over of Colorado Springs and montgomeryite  $[\text{Ca}_4\text{MgAl}_4(\text{PO}_4)_6(\text{OH})_4\cdot 12\text{H}_2\text{O}]$  for Arthur Montgomery of New York City. In fact, in 1930 Larsen had described what later became overite as "Mineral Number 8."



This photomicrograph has a width FOV ~7mm. Note the striations.

(Continued on page 12)

## 2019 CSMS OFFICERS

Sharon Holte, President

John Massie, Vice-President

Open, Secretary

Ann Proctor, Treasurer

Adelaide Bahr, Membership Secretary

Taylor Harper, Editor

Laurann Briding, Member-at-Large

Bill Arnson, Member-at-Large

Ernie Hanlon, Past President

## 2019 CSMS CHAIRPERSONS

John Massie, Program Coordinator

John Massie, Show Volunteer Coordinator

Mike Webb, Field Trip Coordinator

Steven Veatch, Science Fair Chair

Frank & Ellie Rosenberg, Librarians

Mark Schultz, Social Committee Chair

Ann Proctor, Store Keeper

Lisa Kinder, Show Chairman

Lisa Kinder, Webmaster

Lisa Kinder, Facebook Keeper

Mike Nelson, Federation Representative

TBD, Federation Representative

## SECRETARY'S SPOT by Sharon Holte

## General Meeting Minutes for the Colorado Springs Mineralogical Society - 3/21/19

**Thursday, March 21, 2019**

Time: 7:00 p.m. At: Mt. Carmel Veterans Service Center

Address: 530 Communications Circle Colorado Springs, CO 80905

Agenda

I. President, Sharon Holte, called the meeting to order at 7:10 p.m.

II. Pledge of Allegiance

III. Introduction of guests: John Massie asked guests to introduce themselves. Three guests introduced themselves.

IV. Program- John Massie introduced Jenna Salvat who spoke on the "Synthesis and Characterization of Piezoelectric ZnO Nanofilms for Potential Use as Electro-mechanical Seismic Sensing Material". Jenna spoke with great enthusiasm about this research she is conducting.

V. Break for 20 minutes: for drinks, cookies and goodies.

a. There were about 42 members at this meeting, and 5 minerals were given out.

b. Donations of nice minerals - John Crookston donated a section of stromatolite he acquired in Cheyenne Wyoming. He is certain the specimen originated in Ducey, NW Colorado.

VI. The death of two lifetime members was announced by Sharon. They were Mr. Ackley who had a rock shop and also sold collector stamps, and Jack Thompson. The location of the Memorial Service for Jack Thompson was announced and two sympathy cards were circulated for the members to sign. The cards will be sent to the respective families.

**VII. We still need a Secretary!!**

VIII. Officer's Reports

a. President – Sharon Holte

i. Calendar of Deadlines- Sharon reported that Ann has filed the IRS reporting form; that the Pebble Pups are tending the specimen case at Penrose Library; that the Florissant Fossil Beds will receive the \$800 annual contribution required by the Constitution; and that Roger and Ann will renew the trailer license.

ii. Old Colorado City Historical Society Case. The Society wants the case removed because it is too large and does not fit their needs. The case was built by Roger Pittman. We believe the current specimen collection belongs to Jack and Kaye Thompson. Frank Rosenberg will consult Kaye to make certain the collection belongs to them.

iii. RMFMS Convention in Prescott, Az. on August 2, 3, 4, 2019. **We need a representative!**

b. Vice-President – John Massie

i. Discussion w/ Randy Hurley about WMMI. John said that having a silent auction at the Mining Museum is too expensive since they charge \$50/hr. We may have an outside picnic there in summer and a silent auction in connection with it. The Club owns two tents we can use for the picnic.

*(Continued on page 11)*



## 2019 SATELLITE GROUP CHAIRPERSONS

Crystal, Kevin Witte/Bob Germano

Faceting, John Massie/Doreen Schmidt

Fossil, Jerry Suchan/Joyce Price

Jewelry, Bill Arnson

Lapidary, Sharon Holte

Pebble Pups, Steven Veatch/  
Betty Marchant

## 2019 CSMS LIAISONS

Florissant Fossil Beds  
National Monument, Steven Veatch

Western Museum of  
Mining & Industry, Steven Veatch

## (CONTINUED FROM PAGE 10)

### ii. Speakers:

1. April- Jerry Suchan, "CSMS Study Group's Collection of Fossils at Glen Erie in August 1994.

2. May- Bill Arnson, a show and tell on jewelry by members.

3. June- Amber Anderson , "Staking Unpatented Claims on Federal Land".

iii. Show - John asked for volunteers to help with the up-coming show and set out sign-up sheets.

c. Treasurer - Ann Proctor was absent, the ledger was available to members to examine.

d. Secretary(s) Sharon Holte and Adelaide Bahr, no report.

e. Membership Secretary – Adelaide Bahr - We have 95 renewals, including 3 new memberships.

f. Editor – Taylor Harper wants members to contact him if they don't receive the Pick & Pack or blast-o-grams.

g. Member at Large – Laurann Briding, no report.

h. Member at Large – Bill Arnson, no report.

i. Past President – Ernie Hanlon, was not present.

j. Website Coordinator – Lisa Kinder, was not present.

k. Show Chairman Lisa Kinder, was not present.

### IX. Satellite Groups

a. Crystal Group – Kevin Witte, was not present.

b. Faceting Group – John Massie will set up demonstration faceting at the next meeting.

c. Pebble Pups – Steven Veatch, was not present.

d. Fossil Group – Jerry Suchan said the meetings are the 1st Tuesday of each month.

e. Jewelry Group – Bill Arnson, by appointment only

f. Lapidary Group – Sharon Holte, by appointment only, please call Sunday evening after 6:30 p.m.

g. Field Trip Leader – Mike Webb, was absent.

### X. Liaisons

a. Claims - Frank Rosenberg, no report.

b. Library – Frank & Ellie Rosenberg, the library is at their house, call to get books. We have a new book on micro-mounts donated by the Denver Museum.

c. Social Coordinator – Mark Schultz, no report.

d. Schools - Steven Veatch, not present.

e. Store Keeper – Ann Proctor, not present.

### XI. Unfinished Business - None

XII. New Business - Sharon asked for a volunteer to take over the "Bucket", this contains the club brochures and cards announcing shows and other brochures of interest to club members. John Crookston volunteered.

XIII. Meeting Adjourned by our President, Sharon Holte at 8:30 p.m.



**RMGM Promotions  
Presents**

**COLORADO MINERAL & FOSSIL SHOW**

**SPRING SHOW APRIL 12 - 14, 2019**

HOURS FRIDAY - SATURDAY 10AM - 6PM & SUNDAY 10AM - 5PM

**CROWNE PLAZA DIA**

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Wulfenite  
Mina Ojuela, Mexico

Jeff Scovill photo  
Martin Zinn Collection

## **(CONTINUED FROM PAGE 9)**

Over and Montgomery had spent part of the years 1936-1940 prospecting and mining phosphate nodules from Clay Canyon near Fairfield in the Oquirrh Mountains southwest of Salt Lake City. They were mainly after variscite, a beautiful green, hydrated aluminum phosphate [ $\text{AlPO}_4 \cdot \text{H}_2\text{O}$ ] that was sliced for mineral collectors and cabbed for jewelry. However, these nodules also contained a plethora of micro minerals that were of great interest to collectors. Previously the two collectors had been in Alaska gathering epidote crystals from Green Monster Mountain. Upon arriving in Clay Canyon, they dubbed their mine the Little Green Monster. Evidently Montgomery did most of the selling in New York City but also gifted several of the nodules to the Smithsonian Institution where they are preserved and displayed. Today museums and collectors often pay thousands of dollars for a premium slice of Over/Montgomery nodules with colorful variscite and crandallite.

Montgomeryite generally occurs as small lath-like crystals that are flattened, striated, elongated and capped by a pyramid. Crystals are translucent, have a vitreous luster, and a hardness of ~4.0 (Mohs). At the type locality the crystals are generally colorless to pale green and occur in nodules that are of sedimentary origin. Today the Little Green Monster has been reclaimed and collecting is no longer available.

The best-known crystals found today are from a few mines in the Black Hills of South Dakota, especially the Tip Top Mine near Custer. Here most crystals are some sort of a red to orange to salmon to pale yellow color and are associated with several other secondary phosphate minerals found in oxidized phosphate nodules occurring in granite pegmatites (associated with the Harney Peak Granite). As noted in previous messages, geologist Tom Loomis of DakotaMatrix.com owns the Tip Top and has located and preserved many of these rare phosphate minerals.

**These three photomicrographs have a width FOV ~9 mm. The crystals of montgomeryite are embedded on a matrix of the feldspar microcline.**



## **REFERENCES CITED**

- LARSEN, E. S., and SHANNON, E. V. (1930), The minerals of the phosphate nodules from near Fairfield, Utah: *Am. Mineral.*, vol. 15, no. 8.
- LARSEN, E. S. 3d, 1940, Overite and montgomeryite: two new minerals from Fairfield, Utah: *The American Mineralogist*, vol. 25, no. 3.
- WILSON, Wendell E., 2018, Mineralogical Record Biographical archive: [www.mineralogicalrecord.com](http://www.mineralogicalrecord.com).

Post Script: I have hunted for crystals of overite for several years but have been unsuccessful in my pursuit.







## Colorado Springs Mineralogical Society

Post Office Box 2, Colorado Springs, CO 80901

[www.csms1936.com](http://www.csms1936.com)

2019

## APPLICATION FOR MEMBERSHIP

LAST	<input type="text"/>	FIRST	<input type="text"/>	MIDDLE	<input type="text"/>		
SPOUSE	<input type="text"/>	Child (Name):	<input type="text"/>	Age:	<input type="text"/>	GRADE	<input type="text"/>
		Child (Name):	<input type="text"/>	Age:	<input type="text"/>	GRADE	<input type="text"/>
STREET	<input type="text"/>			CITY	<input type="text"/>		
STATE	<input type="text"/>	ZIP	<input type="text"/>	EMAIL	<input type="text"/>		
CELL	<input type="text"/>			HOME	<input type="text"/>		

Have you previously been a member of the CSMS? YES ☐ NO ☐ WHEN

Do you want your name and contact information published in the CSMS Membership Directory, distributed only to members? YES ☐ NO ☐

My photo may be used in the CSMS Publication "Pick & Pack" Circle YES or NO.

	New / Continuing Members		New Members Only	
	Before Jan 31	After Jan 31	After June 30	Oct 1 – Jan following year
<input type="checkbox"/> Pebble Pup Membership (4 – 12 years old and parent is not a member)	<input type="checkbox"/> \$10.00	<input type="checkbox"/> \$15.00	<input type="checkbox"/> \$ 7.50	<input type="checkbox"/> \$10.00
<input type="checkbox"/> Junior (Membership (12 –17 year old and parent is not a member)	<input type="checkbox"/> \$10.00	<input type="checkbox"/> \$15.00	<input type="checkbox"/> \$ 7.50	<input type="checkbox"/> \$10.00
<input type="checkbox"/> Individual Membership (18 and over)	<input type="checkbox"/> \$25.00	<input type="checkbox"/> \$30.00	<input type="checkbox"/> \$15.00	<input type="checkbox"/> \$25.00
<input type="checkbox"/> Family Membership (2 adults & dependents under 18)	<input type="checkbox"/> \$35.00	<input type="checkbox"/> \$40.00	<input type="checkbox"/> \$20.00	<input type="checkbox"/> \$35.00
<input type="checkbox"/> Corporate Membership (entitles up to five (5) Individual Memberships)	<input type="checkbox"/> \$95.00	<input type="checkbox"/> \$100.00	<input type="checkbox"/> \$50.00	<input type="checkbox"/> \$95.00

<b>SATELLITE GROUPS</b> Please check ALL YOU MAY BE INTERESTED IN JOINING Fill out each year, please!!!			
PEBBLE PUPS <input type="checkbox"/>	FACETING <input type="checkbox"/>	LAPIDARY <input type="checkbox"/>	Other: <input type="text"/>
JUNIORS <input type="checkbox"/>	FOSSILS <input type="checkbox"/>	PHOTOGRAPHY <input type="checkbox"/>	
CRYSTAL <input type="checkbox"/>	JEWELRY <input type="checkbox"/>	OTHER <input type="checkbox"/>	
<b>VOLUNTEER OPPORTUNITIES ! VOLUNTEERS ARE WHAT MAKE OUR CLUB! Fill out each year!!!</b>			
GUEST SPEAKER <input type="checkbox"/>	FIELD TRIPS <input type="checkbox"/>	EDITOR/WRITING <input type="checkbox"/>	List any other things you may be willing to do:
CLUB OFFICER <input type="checkbox"/>	LOCAL ROCK SHOWS <input type="checkbox"/>	LIBRARY <input type="checkbox"/>	
HISTORIAN <input type="checkbox"/>	ARTIST/MEDIA <input type="checkbox"/>	REFRESHMENTS <input type="checkbox"/>	

I hereby agree to abide by the Constitution and By-Laws of the Colorado Springs Mineralogical Society [http://www.csms1936.com/wp-content/uploads/2017/02/Constitution and By Laws.pdf](http://www.csms1936.com/wp-content/uploads/2017/02/Constitution%20and%20By%20Laws.pdf) . I have read the membership information as well as the request and waiver for field trips on page 2. I understand that all members must sign a separate waiver at each field trip to participate. I agree to abide by the American Federation of Mineralogical Societies (AFMS) Code of Ethics. <http://www.amfed.org/ethics.htm>.

Signature of Primary Applicant or Guardian if Minor

Application Date:

Mail this form and your payment to: Colorado Springs Mineralogical Society, PO Box 2, Colorado Springs, CO 80901  
Membership Chair: Rev: 01/28/19

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## CSMS Application Page 2- Membership information page and Waiver/ Release to participate in Field Trips.

- Membership to CSMS is annual, from January 1<sup>st</sup> to December 31<sup>st</sup>. Membership dues **MUST** accompany this application, which **MUST** be filled out each year.
- Members must abide by the CSMS Constitution and By-Laws, located on the web at: [http://www.csms1936.com/wp-content/uploads/2017/02/Constitution\\_and\\_By\\_Laws.pdf](http://www.csms1936.com/wp-content/uploads/2017/02/Constitution_and_By_Laws.pdf)
- Members in good standing receive the following benefits: 10 electronic issues of the CSMS *Pick&Pack* newsletter, right to participate in all field trips (additional fees may be required on some field trips and members are responsible for all transportation to and from), participation in one or all Satellite Groups (some groups may request additional fees to help cover resource costs), free admission to the Western Museum of Mining and Industry, a year of learning and enjoyment, plus a lifetime of memories. The Pebble Pup program is a satellite program.
- Continuing memberships must pay full-year dues; a \$5 discount can be applied to renewals on or before January 31<sup>st</sup>. Anyone who has previously been a member **MUST** pay the full rate each year **REGARDLESS** of the time of the year they pay their dues.
- A person, family, or corporation joining the CSMS as a new member after June 30<sup>th</sup> shall pay half the yearly membership rate. A person joining CSMS as a new member after October 1<sup>st</sup> receives the rest of the current year plus the next year's membership. The partial year membership shall not apply toward the 25 year Lifetime Membership.
- Members who have paid their dues for 25 years will be awarded a Lifetime Membership on their 26<sup>th</sup> year. Lifetime Members receive all of the CSMS benefits and no longer have to pay the annual dues. Individual Memberships provided by Corporate Membership are excluded from Lifetime Status. Corporate membership grants up to 5 individual memberships and one yearly (10 issues) 3.5" x 2" advertisement in the CSMS Pick & Pack.

Release by Participants from Claims Arising By Virtue of Mineral Collecting  
Led By Field Trip Leader of the Colorado Springs Mineralogical Society,  
A Non-Profit Corporation – Member: Rocky Mountain Federation of Mineralogical Societies

I/we, the undersigned, hereby request permission to participate in mineral collecting led by the Field Trip Leader of the Colorado Springs Mineralogical Society, a non-profit corporation.

I/we know the risks and dangers involved in such activities and that unanticipated and/or unexpected dangers may arise during such activities.

I/we assume all risks of injury to my/our persons and properties that may be sustained in connection with the stated and associated activities in and around the premises.

In consideration of the permission granted to me/our participation in the stated activities, I/we hereby for myself, my heirs, administrators, and assigns release to the Colorado Springs Mineralogical Society and the Rocky Mountain Federation of Mineralogical Societies, and their representatives, servants, agents, officers and officials and all other participants in the stated activities of and from all claims, demands actions and causes of actions of any sort, for injuries sustained to my/our person and/or property during my presence on the premises and participation in the stated activities due to negligence or any other fault.



**The Colorado Springs Mineralogical Society**  
**Pike's Peak Gem & Mineral Show**

**May 31-June 2, 2019**

**Norris Penrose Indoor Event Center, 1045 Lower Gold Camp Rd**

**Colorado Springs, CO.**

**Request for NON-COMPETITIVE Display Space**

**Name:**

**Society:**

--	--

**Address:**

--

**Phone:**

**Email:**

--	--

**City:**

**State:**

**Zip:**

--	--	--

**Exhibitors are urged to bring their own cases. A limited number of club cases are available upon request. Exhibitors using club cases will need to furnish any risers, linings, padlock or accessories as needed. EACH CASE WILL BE LIMITED TO 150 WATTS.**

**Describe Display or Displays:**

--

<input type="checkbox"/>	I will bring my own display	Your case length	#of cases
<input type="checkbox"/>	I will need a case*	Case size desired	#of cases

\* CSMS cases are approximately 36" by 24" outside measurements. A few 4-foot cases are generally available. There is a hasp on the case that accepts an exhibitor-supplied padlock.

Setup is from 12 PM to 7 PM on Thursday May 30 or 8 AM to 12 PM on Friday before the show opens. Note new show hours for Friday. Tear down is 4 PM to 9 PM on Sunday.

Please note by checking for eligibility for case judging: (details next page)

This is a Pebble Pubs Case \_\_\_\_\_ Case eligible to be judged for the Chris Christensen Award \_\_\_\_\_

Signature of Non-Competitive Exhibitor: \_\_\_\_\_

With the signing of this request, email submission of this document or showing up with an exhibit, it is mutually agreed that the Colorado Springs Mineralogical Society and the Norris Penrose Indoor Event Center shall not be liable to any exhibitor for damage, loss or destruction of any exhibit or injury to his person for any cause and all claims for injury are expressly waived by the exhibitor.

Please return via mail or email by  
May 22 to reserve a case and exhibit space.  
After May 22 exhibitors are still welcome  
based upon availability of cases and space.

**RETURN TO:** Bob Landgraf  
304 Palmer Trail  
Manitou Springs, CO 80829  
719-685-1364  
rmlwp74@aol.com

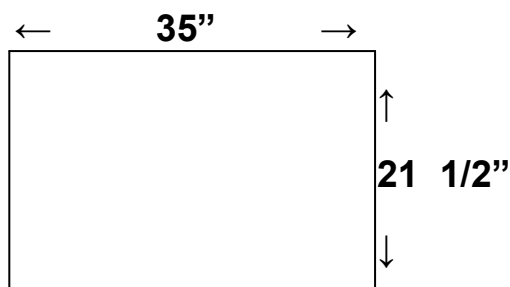
**Details on case judging...there are THREE awards that may be given for exhibits at the 2019 show:**

1. The People's Choice award based upon a tally of the public entering their votes for the case they liked best.
2. The Pebble Pups award for best judged Pebble Pups Case. Must have two or more entries for Pebble Pups entries to be judged.
3. Chris Christensen award for the best-case containing specimens that were either field collected by the exhibitor or self-made by the exhibitor. Exhibit must not have been used as a prior competitive exhibit. Must have two or more qualifying entries for this category to be judged.

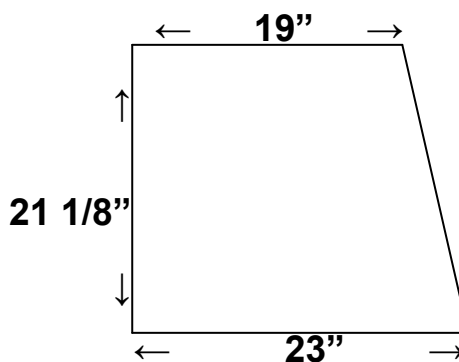
### **The Colorado Springs Mineralogical Society Case...**

All measurements are inside measurements. However, since all cases are handmade there may be some slight variations in actual size. Be sure to bring any necessary tools required to make adjustments to your liners.

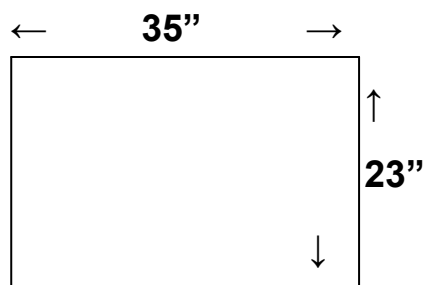
#### **BACK**



#### **SIDES**



#### **BOTTOM**





**Our Staff...**

**Taylor Harper—Editor**

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

Share your experiences, your new finds, or simply your experience at our last field trip.

Handwrite it, type it, or email it. Format does not matter. All submissions are welcomed. The DEADLINE for items to be included in the next Pick & Pack is the **20th of the preceeding-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 should be submitted at resolutions above 200 dpi in TIF, BMP, JPG, or PIC format. **Articles are preferred in Word.** Editor will correct font.

E-Mail to:

[csmseeditor@hotmail.com](mailto:csmseeditor@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.

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**Ann Proctor**

**Classifieds**

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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 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 p.m.**, at Mt. Carmel Center of Excellence, 530 Communication Circle, Colorado Springs, CO 80905. (Starting (9/21/2017) **Visitors are always welcome.**

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, Jewelry Group, Lapidary Group, and Pebble Pups/Juniors. For details on Satellite Group meetings, check out the calendars on page 2 and the web site.

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*, a year of learning and enjoyment, plus a lifetime of memories.

Individuals—\$30, Family—\$40, Juniors—\$15, Corporate—\$100, \*\*\*\*\*Application is on the web site.

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: [www.csms1936.com](http://www.csms1936.com)

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