



THE BULLETIN OF THE COLORADO SPRINGS MINERALOGICAL SOCIETY Published Since 1960

Colorado Springs
Mineralogical Society
Founded in 1936

Lazard Cahn
Honorary President
November 2017
PICK&PACK

Vol 57.... Number #9

CSMS General Assembly

Thursday, November 16, 7:00 PM

This month's speaker is: Larry Havens,

DMNS Earth Science Department Associate

Topic: The Micromount Collection of the

Denver Museum of Nature and Science

****In case of inclement weather, please call****

Mt. Carmel Veteran's Service Center 719 309-4714

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The Micromount Collection of the Denver Museum of Nature and Science

Presented by Larry Havens, DMNS Earth Science Department Associate

"What a small world" is a familiar phrase, but it also describes the 20,000 plus micromounts housed at the Denver Museum of Nature and Science. They are a world of mineralogical wonder contained in a relatively tiny space. Micromounts are specimens that must be viewed under a microscope to appreciate their beauty and mineral lore. This collection began its existence in 1971 when Shorty Withers started to mine the general collection for bits and pieces of special interest to mount in one-inch plastic boxes. He created 3000 micromounts in this fashion, and the collection grew an additional 3000 when his personal collection was donated in 1983. The collection grew substantially when the Paul Seel collection was donated in 1985. Since then the collection has continued to accrue mounts from several smaller donations and the creation of a supplementary collection of mounts by James Hurlbut, assisted by Larry Havens. In 2012 the substantial collection of Willet R. Willis (long-time resident of Colorado Springs and member of the CSMS) was added.

This presentation will explore these and other elements of the DMNS collection, and there will be plenty of jaw dropping photos by Richard Cook and Jack Thompson.

For a preview of the photographs that we will see, please see page 12 in this issue

CSMS Calendar

November & December 2017

Thu., **Nov. 2 & Dec. 7** — **Board Meeting**, 7p.m., Pikes Peak United Methodist Church

Tue., **Nov. 7 & Dec. 5** — **Fossil Group**, 7p.m., Methodist Church, Jerry Suchan, 303 648-3410

Thu., **Nov. 16 & Dec. 21** — **Pebble Pups & Jrs**, 5:30p.m., Mt. Carmel Ctr., Steve Veatch, 719 748-5010

Thu., **Nov. 16 & Dec. 21** — **General Assembly**, 7p.m., Mt. Carmel Center

Thu., **No Meetings until Jan.** — **Crystal Group**, 7p.m., Mt. Carmel Center, Kevin Witte, 719 638-7919

Thu., **No Meetings until Jan.** — **Faceting Group** 7p.m., Medina's home, John Massie, 719 338-4276

Note: The Micromount Group is not meeting at this time. If you are interested in meeting, please call Dave Olsen, 719 495-8720

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, csms1936.com

Upcoming Events of Interest to CSMS Members

Submitted by Pete Modreski

Wed., Nov. 1, 4:00 p.m., A theoretical model of drumlin formation based on observations at Múlajökull, Iceland, by Neal Iverson, Iowa State. CU Geological Sciences Colloquium, Benson Earth Sciences 180; refreshments follow lecture. See <http://www.colorado.edu/geologicalsciences/colloquium> for the full fall schedule.

Thurs., Nov. 2, Jaelyn Eberle (University of Colorado, Boulder), Life at the Top of the Eocene Greenhouse World. Denver Museum of Nature & Science Earth Science Colloquium Series; VIP Room, DMNS

Wed., Nov. 8, 6 p.m., "Unveiling Reception of the Oreodont Skeleton" at the Sherman Dugan Museum, San Juan College, School of Energy, Farmington, NM. I'm mentioning this particularly at the request of several friends who are curators and docents at this newly established and refurbished museum, which (I'm told) has very fine and up-to-date mineral and fossil displays!

Fri., Nov. 10, 3:00 p.m., Raymond Rogers (Macalester College), Twenty Years of Paleontological Adventure & Discovery on the Great Red Island, Madagascar. Denver Museum of Nature & Science Earth Science Colloquium Series; VIP Room, DMNS; all are welcome, and museum admission is not required to attend. [this talk had originally been scheduled for Sept. 22; date was changed]

Sat., Nov. 11, Silent Auction, held by the Littleton Gem and Mineral Club; Columbine Hills Church, 9700 Old Coal Mine Ave, Littleton CO. **Auction begins at 12 noon, verbal auction at 1 p.m., auction is completed and checkout of purchases begins at 3:30 p.m. All are welcome; complimentary refreshments.**

Sat.-Sun., Nov. 11-12, 38th annual New Mexico Mineral Symposium, at New Mexico Institute of Mining & Technology, Socorro, NM; see <https://geoinfo.nmt.edu/museum/minsymp/home.cfm> .

Thurs., Nov. 16, 7:00 p.m., Colorado Scientific Society November meeting, Simone Marchi, Southwest Research Institute, The Early Evolution of Earth—Fire from Above, Fire from Below, at Shepherd of the Hills Church, 11500 W. 20th

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CHENEVIXITE: A RARE GREEN ARSENATE

By Mike Nelson
csrockguy@yahoo.com

I continue to be fascinated by minerals containing the element arsenic (As). The **arsenate minerals** are those minerals containing the anion AsO_4^{-3} and are often grouped/studied together with the *phosphate minerals* $[\text{PO}_4^{-3}]$ and the *vanadate minerals* $[\text{VO}_4^{-3}]$. Since these three anions are about the same size with the same charge, minus 3, they often replace and substitute for each other and a new mineral is born. The *arsenates* include a metallic cation (with a positive charge) plus the *AsO₄ anion* (arsenic combined with oxygen) with a negative charge: annabergite (nickel), austenite (copper and zinc), clinoclase (copper), conichalcite (calcite and copper), cornubite (copper), cornwallite (copper), erythrite (cobalt), mimetite (lead), and olivenite (copper). As an example, annabergite: $\text{Ni}_3(\text{AsO}_4)_2 \cdot 8\text{H}_2\text{O}$, a hydrated (contains water) nickel arsenate.

The **arsenite minerals** are those containing arsenic in a metallic role and positive cation (As), and often combining with other metals, which in turn combine with sulfur (the negative anion) to form a sulfide: arsenopyrite (iron), cobaltite (cobalt), enargite (copper), orpiment (arsenic), realgar (arsenic), proustite (silver), tennantite (copper). For example, enargite: Cu_3AsS_4 , a copper arsenic sulfide.

The **arsenide minerals** have arsenic (As) as its major negative anion with a metallic and positive cation: algodonite (copper), domeykite (copper), nickeline (nickel), skutterudite (cobalt, nickel), lollingite (iron). For example, nickeline: NiAs , nickel arsenide.

The arsenates are the most common minerals containing arsenic while the arsenides are relatively uncommon. The arsenites are somewhere “in-between.”

Last summer at the CSMS Show I was rummaging around and came across a specimen of chenevixite, a mineral completely unknown to me. However, the green color indicated the possible presence of copper so I scooped it up. The price tag in a broken-down specimen box said \$2, a good bargain (Fig. 1).



Fig. 1. Coating of green chenevixite on matrix. Width of specimen ~5.5 cm.

Chenevixite is a copper iron arsenate hydroxyl with copper and iron as the major positive cations and the arsenate ion as the negative-charged anion $[\text{Cu}(\text{Fe})(\text{AsO}_4)(\text{OH})_2]$. It is a rare mineral and found in the secondary oxidized zone of polymetallic ores. Chenevixite represents the oxidation product of the primary sulfides enargite and tennantite (both copper arsenic sulfides).

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Chenevixite is tough to recognize in hand specimens without knowing something about the mining location—the crystals are much too small to see without help of a magnification device. The mineral is some sort of a green color from yellow-green to olive green to dark green. Chenevixite often appears as a massive coating on matrix and the crystals are cryptocrystalline, much too small to be picked up with my camera equipment. Luster is hard to distinguish, not really earthy but certainly not bright, perhaps “oily.” Hardness is ~4.0 (Mohs) and the massive form appears opaque but that is difficult to determine; it may be semi- translucent. It does produce a yellow-green streak.

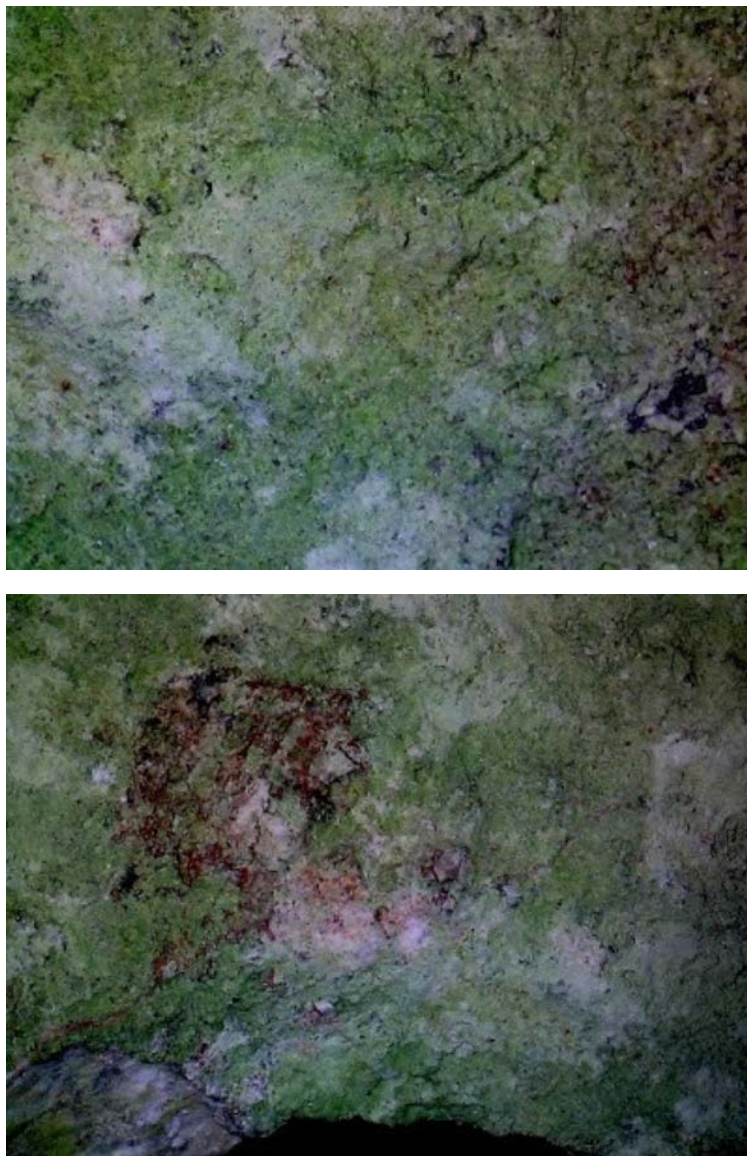


Fig. 2, A and B. Photomicrographs of massive chenevixite coating matrix. Individual, sub-millimeter, "globs" may be observed in some masses. Width of specimen ~1.1 cm.

With a name like chenevixite, I suspected the name came from a French locality, or perhaps honored a French scientist. It was named for Richard Chenevix (1774-1830) an Irish chemist born in Dublin but who later lived and died in Paris (Pisani, M. F., 1866, On a new species of Cornwall, the chenevixite: Weekly Accounts of the Sessions of the Académie des Sciences, 62, 690-692). Its Type Locality is from Wheal Gorland in Cornwall, England. Chenevixite forms a solid solution series with quite rare luetheite as aluminum replaces the iron.

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My specimen came from the Chuquicamata Mine in the Atacama Desert of Chile (west Coast). The scarcity of chenevixite in the world may be due, at least partially, to the fact that it is one of the few arsenic minerals that is stable in arid regions but often leaches in more humid region. The minerals of the Desert are usually rare in other environments.

Now, here is a question above my pay grade: bronze is a combination of copper and another metal, usually tin, whose discovery was a great metallurgical feat since it allowed the construction of “harder” implements and weapons. However, the first bronze was made with copper and arsenic and termed arsenical bronze. I wonder if chenevixite providing both copper and arsenic, was ever smelted into bronze? Another one of one of life’s persistent questions!

Albert grunted. *Do you know what happens to lads who ask too many questions?*

Mort thought for a moment.

No, he said eventually, *what?*

There was silence.

Then Albert straightened up and said, *Damned if I know. Probably they get answers, and serves 'em right.*

—Terry Pratchett

**CSMS 2017 Field Trip Summary
By Mike Webb Field Trip Coordinator**



Burke & Martin, Montezuma Summit, CO

I wanted to thank all the enthusiastic club members who contributed to a successful collecting season. Special thanks to Ernie & Marilyn Hanlon and Billy & Debra Bell for volunteering to lead field trips. Our complete gratitude to Joe Dorris, Mandy & Bill Hutchinson, Dave & Lark Harvey and Robert Martin for graciously sharing their properties, knowledge and some fabulous minerals with us.

The club completed eight outings beginning May 4, in Grand Junction, CO and ending October 13, in Western Utah. The two most popular trips were productive visits with the Dorris Family. The historical tour of Montezuma was also well attended. Trips to sites the greatest distance from Colorado Springs had predictably low attendance.

The big news for next season is Ernie Hanlon agreeing to the co-field trip coordinator position. Our goal will be to visit several Pikes Peak Batholith localities with the intention of increasing overall field trip participation. If anyone has a suggested locality or is willing to lead a field trip please be in touch. (All photos courtesy Mike Webb)



Smoky Hawk Mine
Smoky Quartz & Amazonite



Smoky Hawk Mine
Smoky Quartz & Amazonite



Marilynn Hanlon. Red Feather Lakes, CO.

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Ave., Lakewood. All are welcome.

Thurs., Nov. 16, 7:30 p.m., FM-Colorado Chapter bimonthly meeting, in VIP Room, DMNS. All are welcome. Program, "Phosphate Minerals of Arkansas", by Ed Pederesen.

Fri., Nov. 17, Colorado Science Teachers' Conference (full name: Colorado Science Conference for Professional Development). Held at the Denver Mart, 451 E. 58th Ave., and sponsored by the Colorado Association of Science Teachers (CAST) and other science educators organizations. For full info see <http://www.coloradoscienceconference.org/>.

Fri.-Sun., Nov. 17-19, Denver Area Mineral Dealers Show, Jefferson County Fairgrounds, Golden CO.

Sun., Nov. 19, Colorado Scientific Society Family Night at the Museum, open house at the CSM Geology Museum, 4 to 7 p.m., hosted by Museum Director (and CSS Councilor) Dr. Bruce Geller.

Fri.-Sun., Dec. 8-10, Flatirons Mineral Club annual Gem and Mineral Show, "Rocks and Rails". Boulder County Fairgrounds, Main Exhibit Building, 9595 Nelson Rd., Longmont, CO. Combined Gem and Mineral Show + Boulder Model Railroad Club Exposition; 10 a.m. – 5 p.m. each day. See <https://flatironsmineralclub.org/about/annual-fmc-gem-and-mineral-show/>.

Wed., Dec. 13, 5:30 p.m., Colorado Scientific Society Annual Meeting, Potluck Dinner, and President's Address, by Marith Reheis. At the Arbor House, in Maple Grove Park, 14600 W. 32nd Ave., Golden. Social time begins at 5:30, dinner at 6:00, program begins at 7:00 p.m.

* * * * *

2017 DMNS EARTH SCIENCES COLLOQUIUM SERIES

Location: Denver Museum of Nature & Science, VIP Room (Enter the museum and make a hard left, pass the gift shop on your right, bathrooms on the left, and then the TRex Café on the right; the VIP room is at the far NE corner of the museum, just past the set of 3 TRex Café cash registers). Time: 3:00 - 4:00pm. * Museum admission not required to attend; all are welcome.

Thurs., Nov. 2, Jaelyn Eberle (University of Colorado, Boulder), Life at the Top of the Eocene Greenhouse World

Fri., Nov. 10, Raymond Rogers (Macalester College), Twenty Years of Paleontological Adventure & Discovery on the Great Red Island, Madagascar. [this talk had originally been scheduled for Sept. 22; date was changed]

Tues., Dec. 5, Ellen Currano (University of Wyoming), Seeing the forest through the leaves - from Ethiopia to the Rocky Mountains

* * * * *

For more lecture series during the year (all are welcome to attend any of these free public meetings) see:

Colorado Café Scientifique in Denver, monthly lectures on science topics held either at Blake Street Station or Brooklyn's, Denver; open to the public, no charge other than refreshments you may choose to purchase; see <http://cafescicolorado.org/>.

Colorado Scientific Society (usu. 3rd Thurs. of month, 7 p.m., Lakewood) see <http://coloscisoc.org/>

CU Geological Science Colloquium (Wednesdays, 4 p.m.) see <http://www.colorado.edu/geologicalsciences/>

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colloquium

CSU Dept. of Geoscience Seminars (Fridays, 4 p.m.), see <https://warnercnr.colostate.edu/geosciences/geosciences-seminar-series/>

Gem and mineral clubs in the Denver-Boulder area; for links to the various (8) clubs, see the club page on the Denver Gem and Mineral Show website, <http://www.denvermineralshow.com/clubs/> . Links take you to websites of the individual clubs with information about them and when & where they meet.

Van Tuyl Lecture Series, Colorado School of Mines, (Tuesdays, 4 p.m.): http://inside.mines.edu/GE_Lecture-Series

Denver Mining Club (Mondays, 11:30, luncheon purchase required), see <http://www.denverminingclub.org/>

Denver Region Exploration Geologists Society (DREGS; 1st Monday, 7 p.m.), <http://www.dregs.org/index.html>

Florissant Scientific Society (FSS); meets monthly in various Front Range locations for a lecture or field trip; meeting locations vary, normally on Sundays at noon; all interested persons are welcome to attend the meetings and trips; see <http://www.fss-co.org/> for details and schedules.

Rocky Mountain Map Society (RMMS; Denver Public Library, Gates Room, 3rd Tuesday, 5:30 p.m.), <http://rmmaps.org/>

Western Interior Paleontology Society (WIPS; Denver Museum of Nature & Science, 1st Monday, 7 p.m.), <http://westernpaleo.org/> .



CSMS Members At Work on April Fools Claim Site

Oct 14, 2017, a dedicated group of club members spent a sunny day filling in dig sites at our April Fools Claim. Those present were Norma and Roger Rhodes, John Massie, Randy Hurly, Doreen Schmidt, John Wager, Matt Gropp, Sharon Holte and Frank Rosenberg. (All photos by Frank Rosenberg)



Notice Regarding Board of Directors Job Descriptions

As the end of the year approaches, the CSMS will elect and install new officers for the 2018 year.

The following offices will be vacant next year:

President

Vice President

Membership Secretary

Members-A-Large (Two positions will be open)

Duties Of The Board of Directors

1. **President:** The President shall preside at Society meetings, supervise the activities of the Society, appoint committees, and delegate authority when and where the chair deems it necessary. The President shall make certain that all Board members have a copy of the Constitution, that By-Laws and Resolutions are read and understood at the second Board of Directors meeting of the new term, and that any new member joining the Board of Directors is so informed.
2. **Vice President:** The Vice President shall assume the duties of the President when that officer is absent. When a vacancy shall occur in the office of the President, the Vice President shall assume the duties of the President. The Vice President shall also serve as chairman of the Board of Directors and assist the President in supervision of the active committees. As resolved in 1983, the duties of the Vice President of the Society shall include providing the programs for General Assembly meetings.
3. **Secretary:** The Secretary shall keep the minutes of the General Assembly and the Board of Directors meetings, receive, read, and answer communications, and preserve all records necessary to conduct the business of the Society. As resolved on 12/21/06, the Secretary shall ensure updates are made to the Society Constitution and By-Laws when Resolutions and/or Revisions are duly authorized by the membership.
4. **Treasurer:** The Treasurer shall receive and safeguard all Society funds; maintain accurate records of receipts and expenditures. The Treasurer shall be responsible for recurrent expenses approved by the Society or the Board of Directors (such as rent, postage, insurance, newsletter printing, etc.) being paid when due. The records of the Treasurer shall be made available to the auditor or auditing committee in accordance with BY-LAWS – ARTICLE VI – (3).
5. **Membership Secretary:** The Membership Secretary shall issue dues receipts and membership cards, present membership applications for Board approval, and provide membership packets to new members, maintain an up-to-date membership and/or email list to committee heads or others as may be determined by the President; and shall supply mailing labels for bulletins and notices.
6. **Editor(S):** The Editor(s) shall be responsible for the Society bulletin, public announcements (including meeting time, place, and program) placed in the Society's Pick & Pack newsletter, newspapers, magazine, or other available means. The Editor(s) shall be responsible for ensuring that the current Society newsletter is provided, in electronic format, to the Society's webmaster or designee and the Rocky Mountain Federation of Mineralogical Societies (RMFMS) webmaster for posting to the appropriate web sites, shall provide electronic-format copies of Pick & Pack articles that are deemed by the Editor(s) to be of interest to the regional and/or national rock hound communities, and shall submit Society members' nominations for the American Federation of Mineralogical Societies (AFMS) Club Rock hound of the year (ACROY) to the RMFMS Editor or appropriate committee chair.
7. **Members-At-Large:** The Members-At-Large shall attend all Board meetings, be member liaisons (especially to new members), and undertake projects needed and assigned by the President.
8. **Immediate Past President:** The immediate Past President shall be a member of the Past President Group and act as liaison to the Board of Directors. The immediate Past President shall be an advisor to the officers of the Society.

PEBBLE PUPS CORNER



CSMS Pebble Pups & Junior Group

The Junior Group & Pebble Pups meet at the Senior 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>

A GRANITE BOULDER TAKES A RIDE IN UTE PASS

By Steven Wade Veatch

With the suddenness of a rattlesnake's strike, an enormous boulder of Pikes Peak Granite moved down one of the steep slopes of the lower part of Ute Pass, Colorado. As this rock—larger than a yellow school bus—traveled down the hill, it flattened the bushes growing in front of it, and left a trail of scraped ground behind it.



Figure 1. Gravity's relentless force pulled this huge boulder down the hill to its resting place near US Highway 24 between mile marker 295 and 296. This is a geohazard. Photo © S. Veatch.

This giant rock, perched on a slope in Ute Pass along US Highway 24— between Manitou Springs and Green Mountain Falls—moved downslope from the pull of gravity in a type of erosion called *mass wasting*. When combined with the water of winter snow melt or rain that alters ground conditions, gravity can move rocks downhill—the steeper the slope, the faster the rocks and boulders move (McGeary). During a recent summer, thunderstorms poured rain on the pass.

The slope where this boulder rested was saturated with water, making the ground a muddy, slippery mess. As the rain soaked into the soil, it filled pore spaces, which pushed apart individual grains in the soil—decreasing the resistance of the boulder to movement (Murck, Skinner, & Porter, 1997). Also, some of the grass was washed away by rivulets and rills running downslope, also adding to the conditions that mobilized the boulder.

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2017 CSMS Officers

Ernie Hanlon, President

Lisa Kinder, Vice-President

Mark Lemesany, Vice –President

Barbara Middlemist, Secretary

Ann Proctor, Treasurer

Norma Alexander, Membership Secretary

Larry Jones, Editor

Doreen Schmidt, Member-at-Large

Ariel Dickens, Member-at-Large

Jean Luce, Past President

2017 CSMS Chairpersons

Lisa Kinder, Program Coordinator,

Mike Webb, Field Trip Coordinator

TBD, Science Fair Chair

Frank & Ellie Rosenberg, Librarians

TBD, Social Committee Chair

Ann Proctor, Store Keeper

Michael Kosc, Webmaster

Mike Nelson, Federation Representative

Ernie Hanlon, Federation Representative

2017 Satellite Group Chairpersons

Crystal, Kevin Witte

Faceting, John Massie

Fossil, Jerry Suchan

Jewelry, Bill Arnson

Lapidary, Sharon, Holte

Pebble Pups, Steven Veatch

SECRETARY'S SPOT

by Barbara Middlemist

General Meeting Minutes for the
Colorado Springs Mineralogical So-
ciety — October 19, 2017

The president called the meeting to order at 7:03PM followed by the Pledge of Allegiance.

There were no guests or new members.

Steven Veatch announced that two of the Pebble Pups, Jack Shimon and Ben Elick, would give presentations. Steven joined the program when he was 12 and gives credit to the adventures and education he received then as contributing to his success in life. A mineral enthusiast, he said, must be creative, adventurous and a problem solver. These are skills that are taught to the Pebble Pups.

Jack Shimon presented a program on his experiences building a seismometer.

His project was to build a seismometer to detect vertical and horizontal motion. He described the pitfalls and problems involved with developing the design. He received help on his project from his grandpa. After building the meter came the testing. He dropped a 10lb bag to test sensitivity. He also jumped up and down, varying the height and speed of the jumps. He tested the meter on different flooring material. Cement produced the least detectable waves.

Jack has won many awards for his projects including one for a poem written for Mr. Veatch and one for art work.

Mr. Veatch then introduced Ben Flick who presented a program on Repeat Photography. The objective of repeat photography is to take a unique object and combine it with another to create visual art. In this case old postcards and photos are interlayered with newer photos of the same scene. They are combined to produce an artistic presentation. He had obtained old materials of Rainbow Falls Recreational area and Ute Pass among others and combined them with newer depictions. Especially interesting were photos of graffiti art on bridges and rock faces when combined with photos from the 1800s. Some of his combined works were created in sepia tones, others with overlays of color as seen in pop art.

A break followed. Members signed up for door prizes and enjoyed minerals and fossils brought in to share. The book for Jane Eames was on display.

Membership Secretary asked if anyone was present who wanted applications. Norma said she was calling lifetime members to see if they still lived at the addresses listed in the club membership list.

Crystal Group: Meets October 26 at Mt Carmel Veterans Center. As always, bring your specimens to be admired or if you would like help in identification.

Faceting Group: Meets the 4th Thursday, next meeting is at Bertha Medina's home.

Field Trips: Ernie Hanlon and Mike Webb will be co leaders for

(Continued on page 12)



Figure 2. A once moving boulder left behind a trail and pushed up loose gravel in front of it as it slid down the slope of Ute Pass. Photo ©

One night when it was quiet, except for the rasp of a cricket and the passing of an occasional car on the highway, the force of gravity became greater than the resistance of the ground holding the immense boulder in place. Catching the sleeping birds in the pine trees off guard, the giant rock yielded to the endless pull of gravity and slid down the slope—a geological event that starts within the blink of an eye.

This rapid movement of rocks is a geohazard that develops over time and locally impacts Ute Pass and Manitou Springs. Ute Pass and Manitou Springs are in the path of sliding and falling rocks. Work is ongoing to mitigate some of these hazards. Travelers going through Ute Pass not only have to watch other drivers, but must also look out for moving boulders.

References

- McGeary, D., Brown, W. C., & Plummer, C. C. (1992). *Physical Science: Earth Revealed*. Dubuque: William C. Brown.
- Murck, B. W., Skinner, B. J., & Porter, S. C. (1997). *Dangerous Earth: An Introduction to Geologic Hazards*. New York: John Wiley & Sons, Inc.



October 27, 2017, Randy Hurley and John Massie accompany Us Forest Service Geologist, Amy, and her assistant, Ana, as they inspect the April Fools Claim. (Photos Courtesy Frank Rosenberg)

(CONTINUED FROM PAGE 10)

2018.

It was discussed that more field trip information is needed on the event calendar for members to know if they will be able to participate. The members agreed.

Jewelry by appointment, contact Bill Arnson.

Fossil Group: Next meeting November 7 at Pikes Peak United Methodist Church, 2927 W. Pikes Peak Ave.

Lapidary: By appointment. There are 10", 14", and 22" saws available.

Work on the club claim continues, also on associated paperwork. Progress is good; we may be allowed to dig there next year.

Members need to be aware of BLM regulations. Commercial collecting is not allowed. Vertebrate fossil collecting is not allowed. Only 25 lbs. of material may be collected. Rules can change yearly and are more complicated than I had space for here. It is advised to keep up to date on regulations.

Donated microscopes will be evaluated to determine amount of tax write off.

NOMINATIONS for 2018 BOARD MEMBERS

President: Sharon Holte

Vice President: Randy Hurley

Treasurer: Ann Proctor

Secretary: **Vacant**

Editor: Larry Jones

Membership Secretary: **VACANT**

Member at Large: John Massie

Member at Large: **VACANT**

We are very happy to welcome Mark W. Schultz as the new Hospitality Coordinator. Thank you so much.

Meeting adjourned: 8:26PM

YOU ARE INVITED TO ATTEND THE

**38TH ANNUAL
NEW MEXICO
MINERAL SYMPOSIUM**

November 11 & 12, 2017

COLLECTING GEODE MINERALS
IN THE AMERICAN MIDWEST
Terry Huizing, Featured Speaker

Macey Center
New Mexico Institute of
Mining and Technology
Socorro, New Mexico

The Mineral Symposium is organized each year by the Mineral Museum at the New Mexico Bureau of Geology and Mineral Resources.

Sponsors this year include:

Albuquerque Gem and Mineral Club
Chaparral Rockhounds
Los Alamos Geological Society
Grant County Rolling Stones
Friends of Mineralogy
White Mountain Gem and Mineral Club
Friends of Mineralogy-Colorado Chapter
City of Socorro

**Be There!
Mt. Carmel
Veteran's Service Center
November 16, 2017, 7PM**

Don't miss Larry Havens' presentation on the Micromount Collection of the DMNS. You will see many more photographs like these two.



Our Staff...

Larry Jones—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 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:

csmseditor@hotmail.com

Mail to:

Pick & Pack Editor
PO Box 2
Colorado Springs, CO 80901

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

CSMS

T-Shirts, Badges, and Pins

are available for sale. If you celebrated a CSMS anniversary in 2016 or 2017, you are eligible for your one year pin award. Please see Storekeeper, Ann Proctor

Classifieds

Denver Area Mineral Dealers Annual Gem & Mineral Show
November 17-19, 2017
Jefferson County Fairgrounds, Exhibit Halls
15200 W. 6th Ave., Golden, CO
Hours: Fri. 10 AM - 5 PM, Sat. 10 AM - 6 PM
Sun. 11 AM - 4 PM

Gems, Jewelry, Carvings, Books
Minerals, Fossils, Lapidary

Artisan Jade
Bright Star Gemstones
Costigan's Minerals West
Cut Edge Gems
D & J Rare Gems
Dan's Used Rocks
Earthstones/The Solitaire
G & C Creations
Hands of Spirit
JK Stone
Jensen Meteorites

K & M Enterprises
Lithography
Mineral Store
Morocco's Fossils
Moss Rock Shop
ORCA Gems
Phantom Minerals
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GEM & MINERAL SHOW
NOVEMBER 17-19, 2017
Jefferson County Fairgrounds

Public Welcome
Free Admission
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Sponsored by Denver Area Mineral Dealers

Saturday, November 11, 2017 Littleton Gem & Mineral Club Silent Auction

Columbine Hills Church,
9700 Old Coal Mine Avenue,
Littleton, CO 80123

Seller set up starts at 11 AM,
Silent auction starts at Noon,
Verbal auction starts at 1 pm;
Checkout starts at 3:30 pm

Bring your minerals, gems, jewelry, fossils, books, and equipment to sell. Non-club members are limited to 2 flats. Club retains 20% commission. Payment is by cash or check only.

Email Lesley Sebol at Lesleysebol@gmail.com to pre-obtain a seller/buyer number at or get it at the door.

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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, Micromounts 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

CSMS is a Member of the following organizations:

American Federation of Mineralogical Societies (AFMS)

www.amfed.org

Rocky Mountain Federation of Mineralogical Societies (RMFMS)

www.rmfmts.org