



THE BULLETIN OF THE COLORADO SPRINGS MINERALOGICAL SOCIETY Published Since 1960

Colorado Springs
Mineralogical Society
Founded in 1936

Lazard Cahn
Honorary President
October 2017
PICK&PACK

Vol 57.... Number #8

CSMS General Assembly

Thursday, October 19, 7:00 PM

This month's speakers are: The CSMS Pebble Pups

Topic: Various (Please see below)

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

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

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CSMS Pebble Pups to speak at the October General Assembly

On September 16, 2017, four CSMS Pebble Pups spoke at the Denver Gem and Mineral Show. Here is a list of the speakers and their topics. Please plan to join us to see and hear what they shared at the show.

Jack Shimon: "A Whole Lot of Shaking Going On"

Quentin Matthews: "Copper"

Jenna Salvat: "Cripple Creek Gold Minerals"

Ben Elick: Repeat "Photography around Manitou Springs"

Thank you to Steve Veatch the Pebble Pups chairperson for mentoring these fine young mineralogists.

CSMS Calendar

October & November 2017

Thu., **Oct. 5 & Nov. 2** — **Board Meeting**, 7p.m., Pikes Peak United Methodist Church

Tue., **Oct. 3 & Nov. 7** — **Fossil Group**, 7p.m., Methodist Church, Jerry Suchan, 303 648-3410

Thu., **Oct. 19 & Nov. 16** — **Pebble Pups & Jrs**, 5:30p.m., Mt. Carmel Ctr., Steve Veatch, 719 748-5010

Thu., **Oct. 19 & Nov. 16** — **General Assembly**, 7p.m., Mt. Carmel Center

Thu., **Oct. 26** — **Crystal Group**, 7p.m., Mt. Carmel Center, Kevin Witte, 719 638-7919

Thu., **Oct. 26** — **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

Mon., Oct. 2, 7:00 p.m., DREGS monthly meeting, The AntaKori Cu-Au-Ag Project, Cajamarca, Northern Peru, by John E. Black. Colorado School of Mines, Golden, Berthoud Hall Room 241. Social hour 6:00 to 7:00 p.m., presentation 7:00 p.m. All are welcome.

Wed. Oct. 4, and following Wednesdays, 11:30 a.m. – 1:00 p.m.: 21st Century Maps—Smart Mapping, a course for the general public to get people excited about mapping and spatial thinking! Taught by Dr. Joseph Kerski, ESRI, through the Academy for Lifelong Learning. At Calvary Baptist Church, 6500 E. Girard Ave., Denver, CO 80225. For details & registration see <http://academyl.org/course/21st-century-maps-smart-mapping-new/>.

Thurs., Oct. 5, 7:00 p.m., The Friends of the Colorado School of Mines Geology Museum's "First Thursday" lecture series continues on 05 October 2017 on the Mines campus in the Ben H. Parker Student Center, Ballroom E, 1200 16th Street, Golden, CO 80401. Socializing begins at 6:30 PM and the lecture will start at 7:00. Admission is free and all are welcome. An Overview of Current Research in Extractive Metallurgy and Mineral Processing at the Colorado School of Mines, by Dr. Patrick R. Taylor.

Mon., Oct. 9, Graham Young (Manitoba Museum), Tropical fossils from the edge of the Arctic. Denver Museum of Nature & Science Earth Science Colloquium Series; VIP Room, DMNS.

Oct. 8-14 is Earth Science Week, sponsored by the American Geoscience Institute and many cooperators (including the USGS). See more about it at <http://www.earthsciweek.org/>, including about public activities taking place in many towns throughout the U.S. One of these will be a Geology Hike to be held in the Golden-Morrison-Lakewood area, led by USGS Geologist Pete Modreski, probably to take place on Sunday afternoon, October 8; details will be available later.

USGS also has available free copies of the 2017 Earth Science Week Teachers Packet, containing classroom material (posters, calendars, activity ideas, etc.) for school or other educational use. The theme of the 2017 packet is "Earth and Human Activity". Educators can pick up a copy at the USGS Library, Building 41, Denver Federal Center, Lakewood, CO, at the Reference Desk. The library is open 8 to 4 p.m. weekdays (closed on Federal holidays); see <https://library.usgs.gov/denlib.html> for directions. We will also have copies of the packet to give out at the USGS booth at the Denver Gem and Mineral Show (Sept. 15-17) and at the Colorado Science Conference (Nov. 17). Most of the material in the packet is aimed at middle to high school level students.

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DURANGITE: RED ARSENATE, WEST DESERT, UTAH

Mike Nelson csrockguy@yahoo.co

*I can see for miles and miles
I can see for miles and miles
I can see for miles and miles and miles and miles and miles
Oh yeah*

The lyrics by **The Who** seemed constantly in my head as I traveled the West Desert in 1967-1970.

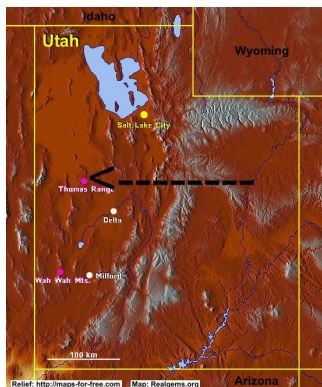


Fig. 1. The Thomas Range is located southwest of Salt Lake City and northwest of Delta, Utah. Map from RealGems.org

I first laid eyes on the Thomas Range in western Utah during the late 1960's and was duly impressed (Fig. 1). Coming from Kansas and eastern South Dakota, I simply had not seen so many volcanic rocks in one place in my life. It was overwhelming as I tried to understand the mechanism behind the explosions that dumped huge piles of rhyolite (mostly) that formed the Thomas Range (Fig. 2). On a field trip, we were examining the isolated mountain ranges in the Basin and Range Physiographic Province, mostly looking at lower Paleozoic sedimentary rocks and their contained fossils. We had just visited the nearby House Range and had collected "lots of" Cambrian Trilobites from the limestones and shales. But here was a magnificent pile of volcanics that needed exploring, but alas the rocks were without fossils so on we traveled.



Fig. 2. Topaz-rich rhyolite exposed at Topaz Mountain.

Upon returning to Salt Lake City I soon learned that the Thomas Range contained a large supply of easily found topaz crystals, and that a major beryllium discovery had been recently located on the west side of the Range (the Spor Mountain area). Well, since the only topaz I had previously seen was in the university mineralogy collection, the first thing that came to my mind was "road trip."

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Lord, I was born a ramblin' man,
Tryin' to make a livin' and doin' the best I can.
And when it's time for leavin',
I hope you'll understand,
That I was born a ramblin' man.

Allman Brothers, 1973. Road trip? Yes

Later in life I again hit (several times) the Thomas Range for topaz, mostly as side trips while collecting invertebrates in the House and Confusion ranges. The Utah West Desert is a lonely place with little water, scarce gasoline, and few non-human inhabitants. This was brought out in great reality one day when my graduate student and I spent a fair number of hours extracting our vehicle from a draw we had foolishly tried to cross. We were in the process of examining a proposed power line route from western Colorado to Ely, Nevada, and had made a less-than-smart decision. But, we were able to get the pickup back on the trail and ended up camping at Painter Spring on the west side of the House Range with a gorgeous view of the night sky and without a single offending human light.

On the first part of the journey
I was looking at all the life
There were plants and birds and rocks and things
There was sand and hills and rings
The first thing I met was a fly with a buzz
And the sky with no clouds
The heat was hot and the ground was dry
But the air was full of sound

Ah, my favorite "desert song." America 1971

The West Desert is part of the Great Basin (geographic term) or Basin and Range (geologic term). This physiographic province stretches from the Wasatch Fault at Salt Lake City (western boundary of the Wasatch Mountains) westward to Reno (eastern boundary of the Sierra Nevada Mountains) and from Idaho-Washington south into Mexico. The Great Basin refers to the fact that very few streams breach the area and most drainage is internal. The Basin and Range designation indicates that large normal faults have created uplifted block mountains (horsts) and down-dropped valleys (grabens). Popular thought is that the ranges are generally composed of fossiliferous Paleozoic sedimentary rocks---for example, the House Range with its famous trilobite collecting localities. However, the Great Basin also has experienced extensive volcanic eruptions and some ranges are composed entirely of Cenozoic volcanic rocks.

The volcanic history of the Thomas Range is quite complex but includes: 1) eruption of flows and breccias from a cal-

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dera with subsequent collapse ~40 Ma; 2) eruption of ash flows with filling of the caldera ~32-38 Ma; 3) rhyolitic flows and ashes ~21 Ma (especially the “beryllium tuff” at Spor Mountain); 4) faulting and tilting of the range ~7-21 Ma; and 5) the eruption of a second rhyolite explosion ~6-8 Ma (Topaz Mountain) (Lindsey, 1998). Christiansen and others (1984) noted that both the Spor Mountain and Topaz Mountain rhyolites are enriched with fluorine, and also Be, Li, U, Rb, Mo, and Sn, and hence provided the fluorine needed for the formation of topaz. Evidently, these topaz-rich rhyolites are common across the western United States and Mexico.

Today Topaz Mountain is a named feature at the southern end of the Thomas Range that has been set aside by the BLM as a public collecting locality and is commonly known as the “Topaz Cove.” There are two ways to collect the topaz crystals: 1) take a heavy crack hammer and “pound” on the rhyolite, especially in the “honeycombed” areas--the lithophysae (the cavities formed by gas); or 2) walk the gullies and slopes looking for crystals weathered loose from the host rock. The former approach produces the sherry- to amber-colored crystals prized by collectors. Most have a single termination and are less than one-half inch in length. With exposure to sunlight the crystals will lose their coloration within a few weeks! The latter collecting approach, certainly the least strenuous, will produce numerous clear (non-colored) crystals of various sizes with at least some approaching an inch in length. Small termination points are common. Topaz belongs to the Orthorhombic Mineral System but the termination points take on a variety of forms.



Fig. 3. Bixbyite cube attached to topaz. Length of topaz ~ 1.5 cm.

A few years ago, I led an intrepid group of CSMS members to the West Desert in a quest for topaz, trilobites and obsidian. I was lucky enough to score a couple of specimens of a rare manganese iron oxide called bixbyite $[(\text{Mn},\text{Fe})_2\text{O}_3]$ (Fig. 3). I also returned home with several tens of pounds of “raw” rhyolite, hauled down from the “amphitheater,” so I could pound away some winter day. There were surprises in those rocks, including pseudobrookite, an iron-titanium oxide, $[\text{Fe}_2\text{TiO}_5]$ (Fig. 4). I also stumbled on a small crystal of red beryl, a story for another day. What I was missing, however, was a specimen of durangite $[\text{NaAl}(\text{AsO}_4)\text{F}]$, a pretty rare sodium aluminum arsenate fluoride that is a nice red color and commonly displayed as crystals. Like topaz, the fluorine-enriched rhyolite supplied elements for the durangite.



Fig. 4. Crystals of pseudobrookite in topaz-rich rhyolite. Longest

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Last year I was fumbling around a box of dusty thumbnail specimens at a Tucson venue and saw the Shannon Minerals specimen labeled Durangite, Topaz Mountain, Thomas Range, Juab County, Utah. I was excited at the find—an arsenate, from Utah, from the Thomas Range, and rare--- and, it soon joined my collection.

Durangite usually ranges from orange to red, orange-red and occasionally green (Figs. 5-7). It is translucent, especially in less massive crystals. MinDat noted specimens appear orange-yellow in artificial light and artificial crystals are always green. The crystals are vitreous and fairly hard at ~5.5 (Mohs). Crystals belong to the Monoclinic Crystal System and are described as "oblique pyramidal." Crystals are quite brittle and impart a cream-yellow streak. Evidently the red color is imparted by minor amounts of iron. Durangite forms a solid solution with maxwellite (sodium iron arsenate fluoride) and tilasite (calcium magnesium arsenate fluoride).



Fig. 5. Topaz-rich rhyolite with several crystals and "masses" of durangite. The <---- points to crystal shown below. Width of specimen ~9 mm.



Fig. 6. Photomicrograph of durangite crystal face noted above. Width ~2 mm.

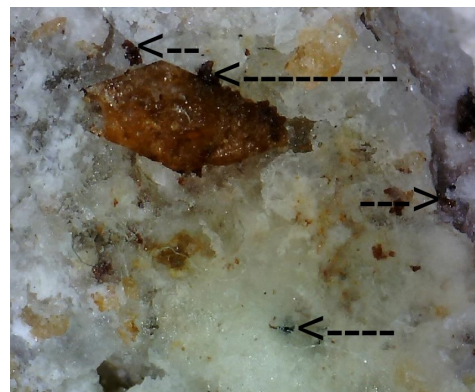


Fig. 7. Photomicrograph of durangite crystal, submillimeter in width. Arrows ----> point to tiny shards/crystals of cassiterite? (tin oxide).

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As I understand, durangite is found in very limited locations in the Thomas Range. In fact, there may only be one location and that is usually referenced as the "Durangite Locality." I presume John Holfert, the Master Collector of Thomas Range minerals, discovered and claimed the site. I don't have the slightest idea if the Durangite Locality is still producing, or if other localities are available. The Type Locality is near Durango, Mexico; however, most collectors seem to believe the "finest specimens are from the Thomas Range.

REFERENCES CITED

Christiansen, E. H., J.V. Bikun, M.F. Sheridan, and D.M. Burt, 1984, Geochemical evolution of topaz rhyolites from the Thomas Range and Spor Mountain, Utah: American Mineralogist, v. 69, no. 3-4.

Lindsey, D. A., 1998. Slides of Fluorspar, Beryllium, and Uranium Deposits at Spor Mountain, Utah: U. S. Geological Survey Open-file Report 98-524.

*I've been through the desert on a horse with no name
It felt good to be out of the rain
In the desert you can remember your name
'Cause there ain't no one for to give you no pain*

America 1971

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Sat., Oct. 14, Dinosaur Discovery Day, public tour day at Dinosaur Ridge, featuring Girl Scout Day/National Fossil Day, 10 a.m. – 2 p.m. "Girl Scouts of all levels can earn badge requirements. Girl Scout registration information will be posted as soon as the event is finalized. We'll also be celebrating National Fossil Day with the National Park Service and many other special guests! Hands-on activities at the Visitor Center for all ages, and scientists will be along the Ridge interpreting fossils and geology for all attendees. Public welcome!" Contact: Erin LaCount – tours@dinoridge.org

Sat., Oct. 14, 8 a.m. – 5 p.m., Bighorn Sheep Canyon Geology Bus Tour, Arkansas River between Salida & Cañon City. Arkansas Headwaters Recreation Area (AHRA) Volunteer Geologist Bob Hickey will narrate an all-day bus tour on the geology of Bighorn Sheep Canyon between Salida and Cañon City on Saturday, October 14, 2017. The bus will depart Cañon City at 8:00 AM on US-50 and travel up the Arkansas River to the Salida East Recreation Site, then begin a slow return trip that will include a narrative description of the canyon's unique geologic features as well as several stops where tour participants may get off the bus to view the geology up-close. A Public-Address system will be used and a printed tour-guide provided to aid in understanding. The event, part of Fremont Fall Heritage Days, is sponsored by the Fremont County Historical Society (FCHS) with cooperation from the Arkansas Headwaters Recreation Area (AHRA) and the support of Raft Masters, who is providing the bus. Registration fee for the tour is \$40, which may be paid by check to FCHS, PO Box 965, Cañon City, CO 81215. Lunch will be available but it is priced separately. The tour is limited to 43 participants. This is a Hold the Date announcement while final arrangements are being made. Registration information, itinerary, tour details and additional information will be available soon at <https://www.fremontheritage.com/>. Look for the Bighorn Sheep Canyon Geology Bus Tour under Events. Further information is available from FCHS and (719) 285-8284.

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

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]

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>

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/>.

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

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>

TABLE BANNER DONATED TO THE PIKES PEAK PEBBLE PUPS

By Steven Wade Veatch

The Pikes Peak Pebble Pups, made up of the youth from the Colorado Springs Mineralogical Society and the Lake George Gem and Mineral Club, participate in several outreach programs to meet the public. The Pups participate in these events to increase the awareness of the two mineral clubs and their youth programs and to recruit new Pebble Pups. Betty Merchant, the Pebble Pup program assistant, has purchased a large table banner to help promote the Pebble Pups and make them more visible at these events. Betty is donating the table banner that will cover a standard event table. The front of the banner has a design that will attract attention at these events.



TABLE FRONT
46" x 29"

Here is the new Pebble Pup graphic that will appear on a table banner used by the Pups at outreach events. This artwork was designed by a Teller County graphic artist.

Several outreach events are already scheduled:

- Cool Science at the University of Colorado Springs (October)
- National Fossil Day at the Garden of the Gods Visitor Center (October)
- Fun with Science at the Rocky Mountain Dinosaur Resource Center (October)
- Family Geology Day at the Western Museum of Mining and Industry (January 2018)
- Cool Science at the Colorado College (April, 2018)
- Colorado Springs Mineralogical Society Show (June, 2018)

The Pebble Pups are in high demand to participate at public events. During the day Pebble Pups greet the public, demonstrate a fossil dig, share information about rocks and minerals, and demonstrate various aspects of our hobby and Earth science. The Pikes Peak Pebble Pups thank Betty Merchant for her dedicated support and for the donation of this banner.

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 — September 21, 2017**

August "Picnic"

In place of the August general meeting we hosted the club's annual dinner at the Golden Corral. This is an opportunity for club members to share their summer activities and bring in rocks to share. It was a medium turnout. We all had a great time eating, sharing our eclipse experiences and sharing rock hunting stories. Some of our rock hounding produced specimens that were shared while others resulted in stories of difficult weather and road conditions that were obstacles to a successful digging excursion. I loved each and every story and learned as much from the trials facing rock collecting as I did from those resulting in a display piece. We held the September general meeting at the new Mt Carmel Veterans Service Center and hope to see you all there in October with specimens to share.

September General Assembly

The president called the meeting to order at 7:03.

It was decided not to recite the pledge of allegiance since there was no American flag in the room.

There were no guests or new members.

Ernie asked for a moment of silence for long time member Jane Eames. She was so passionate about micromounts that a good find was called a Jane Eames special. She was active in many sub-groups in the club. She was 93.

A plaque was awarded to Lisa Kinder for her outstanding work as show chair.

A plaque was also awarded to Sharon Holte's daughter Tina Bopp for her much needed help at our annual show.

A plaque was awarded to the Merit Company for its donation to the show.

The president announced that the board voted (electronically, a quorum was not present at the September board meeting) to approve a short notice request for \$500 to the Pebble Pups to purchase supplies and specimens at the Denver Gem and Mineral show.

Corrections to the July general meeting minutes were called for from the membership. There were none.

The Mt Carmel Center, where the general meeting is now held has changed its name to "Mt Carmel Veterans Service Center." The center provided coffee for the meeting and will continue to do so for future meetings.

Sharon Holte took the floor for the final presentation of changes to the constitution. These changes have also been published in the

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Pick and Pack. The changes were voted on and approved by the membership.

Lisa Kinder, Show Chair, announced that Flourite has been approved by the board to be the mineral for the 2018 show.

Norma Alexander Rhodes announced they are seeking volunteers to lead a photography satellite group. Members have voiced an interest in starting one.

Frank Rosenberg reported that he received a letter concerning the April Fools Claim informing the club that there are remaining holes that need to be filled before the claim can be inspected. A signup sheet was circulated for members to sign up for a trip to fill holes in early October. If anyone wants to help out please contact Frank.

Frank also reported that the silent auction at the 2017 show brought in \$2000, mainly from the sale of slabs.

The Waters Estate sale that was held this summer, donated all the remaining rocks to the club, many of which were slabs. The club sent a thank you letter. We are very appreciative of this contribution.

The club has a Mineral Case on display at the Penrose library, which is a branch of the Pikes Peak Library District. The case must be cleaned and maintained. The Pebble Pups have been contacted to take over this maintenance.

A hospitality lead is still needed for coordinating refreshment service at the general meetings.

Door prizes were awarded. There was a book on Amber plus three mineral specimens.

The program was given by the President Ernie Hanlon. It was a fun and educational look at Amber. The most sought after Amber specimens have insects embedded in them. Because of the demand there are quite a variety of ways to fake these specimens. Amber may be melted and then an insect is added. Or, the insect may be injected into the amber. Amber fakes have become quite an art.

Ernie showed photos of amazing real insects in Amber. He also brought a display case for us to study of Amber, including a butterfly in fake amber.

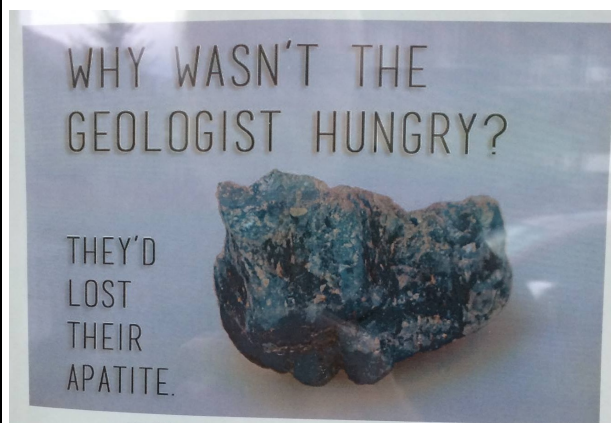
Included in the presentation were photos of beautifully carved Amber pieces that would make great additions to an art collection.

The meeting was adjourned at 8:41.

Nominating Committee

Chairperson Needed

As noted on page 8 of this issue, there are five vacancies on the CSMS Board of Directors for 2018. To begin the process of electing candidates to fill those positions, we need a chairperson to head a committee to help find and nominate individuals who are interested in helping with the empty positions. Now is the time to become more involved in the future of our mineralogical society. The first step will be to form a committee so please contact a board member at the October General Assembly on October 19 if you can join or lead the committee. In November we will hear nominations, and in December we will vote for the 2018 Board of Directors.



Dear CSMS members,

The email below was forwarded to us by Dr. Peter Modreski who kindly sends us a list of upcoming earth science events every month.

Solar Eclipse Survey

From: Joseph Kerski <jkerski@esri.com>

Date: Fri, Sep 1, 2017 at 3:41 AM

Subject: Citizen Science eclipse survey

Science Colorado Community:

A few researchers and I are working on a project about the solar eclipse on 21 August. We are looking for stories of those who witnessed the event. Feel free to fill it out and circulate it to friends who celebrated the event and to colleagues and students.

Here is the survey:

<https://survey123.arcgis.com/share/ba8c72d4b5b8496788a82a751d623eb>

Questions? Direct them to:

Stanley D. Brunn, Ph.D., Emeritus

Department of Geography

841 Patterson Tower

University of Kentucky

Lexington, KY 40506-0027

USA

email: Brunn@uky.edu

Office Phone: (859) 257-6947 or 2931; Home 266-9737

Fax: (859) 257-6277

www.uky.edu/AS/Geography/dept/brunn.htm

<http://www.uky.edu/AS/GeographyDept/brunn.htm>

Joseph Kerski

Joseph J. Kerski, Ph.D., GISP | Education Manager

Esri and University of Denver

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esriurl.com/josephkerski | <http://twitter.com/josephkerski>

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

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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