



# PICK & PACK

THE BULLETIN OF THE COLORADO SPRINGS MINERALOGICAL SOCIETY Published Since 1960

Colorado Springs  
Mineralogical Society  
*Founded in 1936*  
October 2016  
**PICK&PACK**

Vol 56 ..... Number 8

## Inside this Issue:

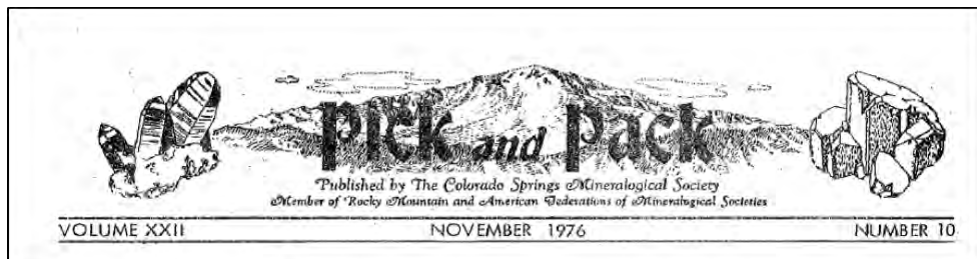
CSMS Calendar & Other Events	Pg 2
The Rubby Ducky, The Hope Diamond and Sphalerite...	Pg 3
Ammonite Presentation Info	Pg 6
Pebble Pups Corner	Pg 7
Secretary's Spot	Pg 8
April Fools Field Trip	Pg 9
Classifieds & Flyers	Pg 11

**CSMS General Meeting**  
**Thursday, Oct. 20, 7:00 PM**

**Refreshments provided by: Micromounts Group**

**Guest Speaker: To Be Announced**

While searching for something "Nostalgic" to include this month, I came across this article from the November 1976 issue of the Pick and Pack. I'm not sure of the exact author, so I'm including the issue, and Staff block. Due to the original formatting (hand typed double columns), I had to retype it, but no other editing was done. How ironic, what began 40 yrs ago (and has undergone many changes since), is now affecting rockhounds and most recently the CSMS April Fools claim today!



PICK & PACK STAFF	
EDITOR	Mike Wheel
ASSO. EDITOR And PASTE UP	Bob King
ADVISOR	Ray Ziegler
PRINTERS	Harris Burt, George Fisher, Ray Ziegler
MAILERS	Eloise Berry
TYPIST	Betty Wheel

## Mineral Notes: ALL COLORADO MINING WILL BE SUBJECT TO NEWLY PASSED RECLAMATION LAW

Governor Dick Lamm recently signed Colorado's new Mining Reclamation Law (HB 1065), to become effective July 1. Unhappy with the law in its present form, Lamm immediately called for a revision by next year's general assembly. One major objection, Lamm noted, was that the law "does not appear to meet (Federal) environmental stringency requirements." His main concern is that it probably will not apply to reclamation programs on Federal coal lands, expected to account for about one-half of all coal development in the state.

The new law imposes 18 duties on mine operators:

Reclamation plans and maps must be updated and submitted each year, along with annual inspection fees of \$350 for open  
(Continued on page 10)

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

# CSMS Calendar

## October & November 2016

Please note Faceting Group is now meeting the 2nd Thursday of each Month

Tue., **Oct 4 & Nov 1**—**Fossil Group**, 7 pm, Senior Center. Jerry Suchan 303 648-3410

Thu., **Oct 6 & Nov 3**—**Board Meeting**, 7 pm, Senior Center.

Tue., **Oct 11 & Nov 8**—**Micromounts**, 7 p.m., Senior Center. Dave Olsen, 719-495-8720

Thu., **Oct 13 & Nov 10**—**Faceting Group**, 7 pm, Senior Center. Doreen Schmidt, 719-577-4165

Thu., **Oct 20 & Nov 17**—**Pebble Pups & Juniors**, 5:30 pm Senior Center. Steven Veatch, 719 -748-5010

Thu., **Oct 20 & Nov 17** — **General Assembly**, 7 p.m., Senior Center “August Picnic” Date & Time TBD

Thu., **Oct 27 & Nov 24**—**Crystal Group**, 7 p.m., Senior Center. Kevin Witte, 719-638-7919

Appointment Only—**Jewelry Group**, Bill Arnson, 719 337-8070

Appointment Only—**Lapidary Group**, Sharon Holte, 719 217-5683

The Senior Center is located at **1514 North Hancock** in Colorado Springs. For more information on any of the sub-groups, meetings, and other CSMS valuable information, go to our website, [csms-web.org](http://csms-web.org)

## Upcoming Events of Interest to CSMS Members

Submitted by Pete Modreski

**Wed., Oct. 5, 4:00 p.m.**, CU Geological Sciences Seminar, Boulder, “Cosmogenic nuclide dating applied to human evolution”, by Darryl Granger, Purdue University. Benson Earth Sciences Building Auditorium (room 180). All welcome; refreshments are served at 3:30 on the 3rd floor.

**Sat., Oct. 8, 9 a.m. to 2 p.m.**, Dinosaur Discovery Day at Dinosaur Ridge, featuring Girl Scout Day and National Fossil Day. Free walking tours via guides stationed along the way; \$4 to ride a shuttle bus one way and take the walking tour coming back. For more info see <http://www.dinoridge.org/DDD.html> and <http://www.dinoridge.org/scoutdays.html#gsa>. At 16831 W. Alameda Parkway, Morrison, CO.

**Wed., Oct. 12, 5:00-6:30 p.m.**, a short geology & nature hike for Earth Science Week on Green Mountain, Lakewood CO. Meet at 5 p.m. at the large Hayden Green Mountain Park trailhead parking lot off Rooney Road, 0.65 miles north of Alameda Parkway or 1.9 miles south of W. Colfax Ave. This will be an easy, short (1.5 mile round trip) hike on a good, mostly level trail, ending at about sunset (6:25 p.m. MDT); elevation gain will be only about 150 feet. The main goal of our hike will be some interesting trailside outcrops of conglomerate composed entirely of lava pebbles within the Denver Formation, including a “window rock” you can look through. An optional, additional ¼ mile walk at the end will be more to look for wildlife than for rocks. Led by USGS geologist Pete Modreski. RSVP is not required, but if you'd like to, or have questions about weather or otherwise, contact [pmodreski@usgs.gov](mailto:pmodreski@usgs.gov) or call 303-202-4766 (office), 720-205-2553 (cell). For more about Earth Science Week, Oct. 9-15, see <http://www.earthsciweek.org/> and <http://www.earthsciweek.org/upcoming-events>.

**Thurs., Oct. 20, 7:00 p.m.**, Colorado Scientific Society October meeting, Climate Change, Part I and II, by William W. Little & Thom Fisher. “Climate change, a geologist's view”, and “Models, Data, Predictions, or Why Climate Models are Like Sausages”. Shepherd of the Hills Presbyterian Church, 11500 W. 20th Ave., Lakewood CO. Social time beginning at 6:30; meeting & program at 7:00. All are welcome to attend; see [www.coloscisoc.org](http://www.coloscisoc.org).

**Sat.-Sun., Oct. 29-30**, Book, Fossil and Mineral Sale at the Colorado School of Mines Geology Museum. 9 a.m. to 4 p.m. each day; 1310 Maple St., Golden, CO. A sale of material that is surplus or has been donated to the CSM museum.

**Tues., Nov. 8, 3:00 p.m.**, Earth Sciences Colloquium at the Denver Museum of Nature & Science, Exploring the Eocene Forests of Colorado, by Steve Manchester, Florida Museum of Natural History. In the VIP Room. All are welcome, museum admission is not required.

**Thurs., Nov. 17, 7:00 p.m.** Colorado Scientific Society November meeting, Terrestrial ecosystems during the Mesozoic, by Joe Sertich, DMNS. Shepherd of the Hills Presbyterian Church, 11500 W. 20th Ave., Lakewood CO.

**Thurs., Nov. 17, 7:30 p.m.**, Friends of Mineralogy, Colorado Chapter meeting, Denver Museum of Nature and Science, VIP Room, “Thalénite: from redefinition to new discoveries of a rare-earth element silicate mineral from Colorado, by Dr. Markus Raschke, CU.

**Fri., Nov. 18**, Colorado Science Teachers Conference (full title, Colorado Science Conference for Professional Development), at the Denver Mart, sponsored by the Colorado Association of Science Teachers and other science education organizations. For full information see <http://www.coloradoscienceconference.org/> Fri.-Sat.-Sun.,

**Nov. 18-20**, Gem and Mineral Show at the Jefferson County Fairground, sponsored by Denver Area Gem and Mineral Dealers. 10-5 Fri., 10-6 Sat., 11-4 Sun. Free admission.

## THE RUBBY DUCKY, THE HOPE DIAMOND, AND SPHALERITE FROM THE CAMP BIRD MINE, COLORADO along with a MEA CULPA

Mike Nelson csrockguy@yahoo.com

*Thomas Walsh discovered (1896) and operated the Camp Bird Mine until selling it in 1902 for a gazillion dollars and moving to Washington, D.C. His heiress daughter, Evalyn Walsh McLean, purchased one of the most famous gemstones in the world, the Hope Diamond, a 45.52-carat deep-blue diamond. In 1949 the estate of Ms. McLean sold her jewelry collection to the New York gemstone merchant Harry Winston. In 1958 Mr. Winston donated the Hope Diamond to the National Museum of Natural History (Smithsonian) to help start a National Gem Collection. Today the Hope Diamond is perhaps the major attraction in the Collection, and perhaps in the entire Smithsonian Museums. It all started with a little sphalerite and gold in the high country of the San Juan Mountains.*



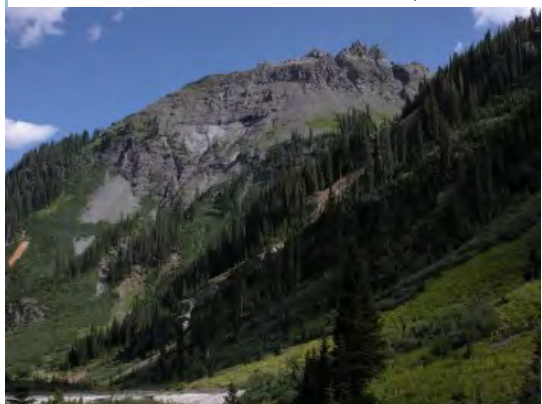
The other day I was rummaging through a drawer of specimens from Colorado during a period of, for want of better terms, reorganization, cleaning and relabeling, when I came upon a nice specimen from the Ouray area in the San Juan Mountains. In the 1970s I was spending much/most of the summers collecting and supervising student projects/theses in various parts of Utah—mapping, collecting fossils, stratigraphic studies. However, I always tried to take a break on the way back to my teaching position in Kansas by camping and hiking and fishing in Colorado. I mean if you are going to drive from Utah to Kansas one might as well spend some R & R in the Colorado mountains! Several

times we camped down in the San Juan Mountains near Ouray or Telluride and I was able to wander around and check out some of the mine tailings and dumps. My momma didn't raise no fools so I did not venture anywhere close to a shaft or mine opening. Besides my momma's warnings, I have a bad case of claustrophobia!

One of my favorite back country roads was/is the Ouray County Road 361 known as the Camp Bird Road or the Yankee Basin Road exiting US 550 just south of Ouray and heading to the high country. The road eventually dead ends at about 12,500 feet, OR branches out heading over Imogene Pass (~13,000 feet) to the area around Telluride. I am not much for traversing narrow, four-wheel drive, high mountain passes so have passed on Imogene (and most others). The Camp Bird Road itself is quite narrow with "drop offs" of several hundred feet (Fig. 1). Forty years ago the road remained relatively unknown to "tourists" but today it is often crowded (especially on summer weekends) with four-wheel and OHV enthusiasts, as well as numerous Clark Griswolds at-



**Fig. 1. Hanging Rock along the Camp Bird Road to Yankee Basin.**



**Fig. 2. Lots of high country with peaks composed of volcanic rocks.**

tempting the trip in their family sedans. Sometimes those latter journeys are a "sight to behold." Even in winter the road is "busy" with ice climbers, cross country skiers, snowshoers and other snow/cold weather enthusiasts.

If the Camp Bird Road is a dramatic drive with fantastic views, then Yankee Boy Basin is sort of a spiritual experience. It is a high altitude alpine basin with views and access to spectacular scenic peaks such as Mount Sneffels (14,150), Gilpin Peak (13,694), Teakettle Mountain (13,825), Potosi Peak (13,786) and numerous others (Fig. 2). One of my goals in life when moving

*(Continued on page 4)*



to Colorado was to attempt a summit of Sneffels; however, increasing age with new hips and knees, and children who insisted that I locate a hiking partner, limited my 14ers to several in northern Colorado. I suppose those days are over but I have the memories and feel blessed that Elbert and several others succumbed to my persistence.

A trip to Yankee Boy Basin also exposes the traveler to numerous abandoned mines, mills and dumps (Fig. 3). Some areas are on private land, some on federal USFS land, and some are under claim—a hodgepodge of ownership that is tough to decipher. The best plan, if you want to examine the tailings etc., is to check with the local USFS office about ownership. But again, back in the 1970s it was easier to just walk around and explore.

Perhaps the most photographed mining activity is the area around the Atlas Mill and Mine (~.75 miles past the Imogene pass turnoff; Fig. 4). It is tough to locate much information about the Atlas Mine except it is several hundred feet above the modern Revenue Mine, a climb that I did not want to make. It seemed active in the late 1800s and I presume was one of the numerous sulfide mines that dot the area. But, remains of the Atlas Mill that processed the Mine ore are quite visible near the Camp Bird Road adjacent to Sneffels Creek. Several years ago there was an adjacent campground; however, during my last visit the site was closed as an avalanche (2008) had destroyed the area. The former town of Sneffels occupied the area around the Atlas Mill. The Revenue Mine may still be in business as a couple of miners were killed in an accident about three years ago.



**Fig.3. Abandoned mines and tailings are common along the Camp Bird Road.**



**Fig. 4. The photogenic remains of the Atlas Mill across Sneffels Creek and along the Camp Bird Road. The Atlas Mine was several hundred feet above the Mill.**

One of the more famous mines in the area was/is the Camp Bird Mine located near the former community of Camp Bird. Today the mine is on private property and it appears, at least to me, that much of the area has been reclaimed, or at least protected from further damaging the environment. The local newspaper in Ouray had noted, back in about 2013, that the mine was being processed for re-opening. However, a local person from Ouray told me that those rumors have circulated since the mine closing in 1990. MinDat.org states the Camp Bird Mine is: “a former Au [gold]-Zn [zinc]-Ag [silver]-Pb [lead]-Cu [copper] mine... Discovered by Thomas F. Walsh in 1896... Mineralization is a polymetallic replacement deposit. The main ore body is the Camp Bird vein, with replacement ore bodies on three other veins. The ore body...is a tabular, fissure vein replacement body. The primary mode of origin is hydrothermal. Secondary mode was lithology...Local rocks include pre-ash-flow andesitic lavas, breccias, tuffs, and conglomerates. Workings include extensive underground openings with a length of 7,200 meters and an overall depth of 248 meters...Produced about 1.5 million Troy ounces of Au [gold] to 1990. Also produced 4 million Troy ounces of Ag [silver]. The Colorado School of Mines (2016) noted that: “the Camp Bird vein – a major control structure for the mine – was formed as a result of the subsidence of the nearby Silverton Caldera. The vein is located about three miles northwest of this caldera. The vein out crops near the head of Imogene Basin at an elevation of 11,800 feet. Ore shoots along the Camp Bird vein account for almost all the gold production from the mine.

Throughout the 90+ years of mining operations at Camp Bird, three different types of epithermal ore deposits have been mined: 1) Gold-quartz-base-metal ore shoots. 2) Silver and base metal-bearing quartz veins. 3) Lead-copper-zinc replacement ore bodies (ROBs).

The primary ore minerals of the Camp Bird vein are native gold, galena, sphalerite, chalcopryite, and tetrahedrite. The main gangue minerals are quartz, pyrite, and calcite. Other prominent minerals include: epidote, fluorite, gypsum, hematite, rhodonite, and scheelite.”

The specimen that I picked up a long time ago is a nice rock with beautiful crystals of sphalerite (ZnS) along with a few crystals of galena (PbS) (Fig. 5). Sphalerite is a rather common sulfide mineral and is the major ore of zinc. It is in the Iso-morphic Crystal System but instead of producing just simple cubes it also forms tetrahedrons and dodecahedrons and all

*(Continued on page 5)*

forms are commonly twinned, intermixed and highly complex; at times it occurs as microcrystalline, or botryoidal and compact masses. One of the most distinguishing features is the luster, usually resinous to submetallic to vitreous. On larger crystals the cleavage is quite noticeable; however, the granular masses do not cleave. Crystals are translucent to transparent to opaque and some gemmy material has been faceted; however, these pieces are for collectors only as the perfect cleavage and the mineral softness (3.5-4.0 Mohs) does not allow for jewelry use. The color of sphalerite varies with composition. The more "pure"  $Zn \sim 67\% S \sim 33\%$  is usually a pale yellow to yellow green to orange to red; however, iron is a common constituent and replaces some of the zinc. With increasing iron content, the darker the crystals become until they are quite dark and opaque. As I understand the situation the amount of iron in sphalerite may be an indication of the formation temperature (Klein, 2002). Trace amounts of manganese can also darken the crystals. A sphalerite dimorph, wurtzite  $[(Zn,Fe)S]$ , belongs to the Hexagonal Crystal System.



Fig. 5. Complexly twinned and distorted dark brown sphalerite crystals and smaller gemmy yellow crystals along with three tarnished, gun-metal gray weirdly twinned galena crystals (G). Width of specimen  $\sim 6.5$  cm. See photomicrographs right.



Fig. 6



Fig. 7



Fig 8

Photomicrographs (Figs 6-8) show the nice dark brown crystals along with much smaller gemmy, translucent yellow to amber crystals. The dark brown crystals range around 3-6 mm in width. Several of the larger crystals are twinned or distorted and/or striated. The amber to yellow crystals seem not to show twinning.



Fig. 9. Small penetration twin on larger galena crystal. Width of larger crystal  $\sim 4$  mm.



Fig. 10. The above two photomicrographs show a galena crystal with "strange" (at least to me) twinning or a center cube with epitaxial growth along all sides. It is tough for my camera to pick up the shape but there is a center cube with twins/growths tilted up along each edge forming sort of a box that still needs some folding. Total width about 4 mm.

The specimen that I have from the Camp Bird Mine has a mixture of complexly twinned, fairly large, almost black, subvitreous crystals intermixed with gemmy, small, pale yellow crystals. However, the large dark crystals may be scratched with steel to reveal the underlying yellow-green color. And some crystals contain both opaque and transparent/translucent areas. Intermixed are some really complex twinned, tarnished gun-metal galena ( $PbS$ ) crystals (Figs. 9-10). It is a nice specimen and is completely different looking than my specimens from the Tri State Mining area in southeast Kansas.

*'Way out in Colorado, In the Camp Bird Mine. Down deep in the darkness, On level nine, Where the water trickles, An' your blood runs cold, There's a lonesome miner, Still lookin' for gold'*

CAMP BIRD MINE, as sang by C.W. McCall (he of *Convoy* (1975) and *Rubber Ducky* (1976) fame), and the former Mayor of Ouray.

(Continued on page 6)



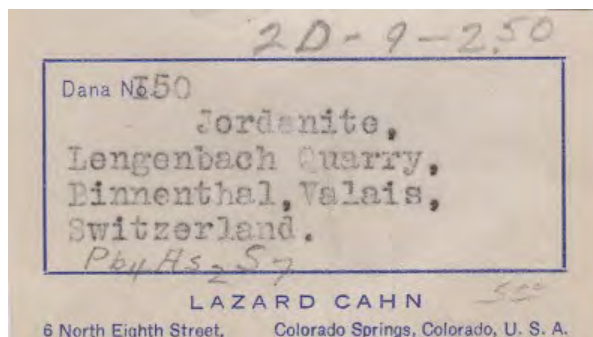
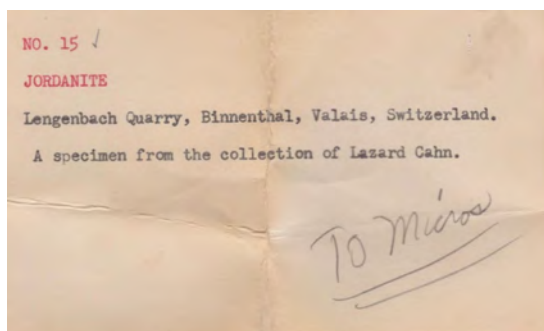
## REFERENCES CITED

Colorado School of Mines, 2016, Mining Stories of the Colorado School of Mines Geology Museum: [www.facebook.com /LikeCSMGeoMuseum/posts/1635501270070589](https://www.facebook.com/LikeCSMGeoMuseum/posts/1635501270070589)

Eckel, E.B. and others, 1997, Minerals of Colorado: Friends of Mineralogy – Colorado Chapter and Fulcrum Publishing, Golden, Colorado.

Klein, C. (after J.D. Dana with continued contributions of C.S. Hurlbut, Jr.), 2002, the 22<sup>nd</sup> edition of the Manual of Mineral Science: John Wiley & Sons, Inc., New York.

**MEA CULPA:** I forgot the two most important figures in my article on Willard Wulff and Lazard Cahn appearing in the September Pick & Pack. They are added below: the Wulff specimen label of jordanite and the Cahn specimen label.



\*\*\*\*\*

## Ammonites and Their Cousins -- Predators of the Cretaceous

Dennis Gertenbach, speaker

Western Interior Paleontological Society, Colorado School of Mines Geology Museum



Dennis' passion is invertebrate fossils—collecting, identifying, and learning how fossils help us understand the earth in ancient times. He has been a member of the Western Interior Paleontological Society (WIPS) since 1999 and the Flatirons Mineral Club in Boulder (FMC) since 1995, is a past president of both, and leads the children's programs and field trips in each organization. He formed the WIPS Invertebrate Study Group where members help each other learn more about invertebrate fossils and explore new fossil collecting areas. He also leads a group of volunteers helping to catalogue the fossil collection of the Colorado School of Mines Geology Museum which houses fossils collected from the late 1800s to the present.

Dennis earned his Ph.D. in Chemical Engineering and works part time as a vice president at Hazen Research, an engineering firm in Golden.

This talk is appropriate for all ages 10 years old and older, and those young folks will be entertained. No scientific background is necessary to enjoy this presentation.

October 8, 2016 10:00 - 11:30

(719-275-9781 for more information)

Cañon City Library, 516 Macon, Cañon City

Fremont Fall Heritage Festival



## PIKES PEAK PEBBLE PUPS SPEAK AT THE DENVER GEM AND MINERAL SHOW

By Steven Wade Veatch

The Pikes Peak Pebble Pups took the stage once again at the Denver Gem and Mineral Show where five Pebble Pups presented their research before an eager audience. The Pups provided an exciting lineup of topics. Jenna Salvat's lecture title was "The Mineral Significance of Cripple Creek & Victor Mining District." Jack Shimon's paper was "The Rudist Fossil Story." Jerrod and Nathan Gallup spoke about "The Geology of Mammoth Caves." Destin Bogart, a distance learning Pebble Pup, presented an overview of the *Dimorphodon*.

This is the fourth year that the Pebble Pups have presented their research at the show. They have earned a permanent speaking slot for future shows. The Pikes Peak Pebble Pups is a joint youth program between the Colorado Springs Mineralogical Society and the Lake George Gem and Mineral Club.



**Jerrod (L) and Nathan (R) Gallup pose with Steven Veatch, Pebble Pup leader just after speaking at the Denver Gem and Mineral Show. Jerrod and Nathan belong to the Lake George Gem and Mineral club. Photo by Jeff Gallup.**

## VEATCH TO TEACH CLASS ON PALEONTOLOGY OF THE PIKES PEAK REGION

Paleontology has played a central role in understanding the history of the Earth. Exciting new analytical methods and fossil discoveries shed new light on the history of life, impact events, climate change, extinction events and the evolution of the planet. These topics will be examined through advances in paleontology that have been made in the Pikes Peak Region of Colorado. Veatch, a long-time member of the club, will teach this class Oct 15, Sat 9:30 am-12:00pm. The class title is "Paleontology of the Pikes Peak Region." This class will be held at the Rocky Mountain Dinosaur Resource Center in Woodland Park, Colorado. Everyone gets a certificate of completion, a fossil specimen and a resource CD to take home. The fee is \$20.00 plus museum admission. Please bring a pen, notebook and clip board. Pre-registration is required. Call Deb at 719-686-1820 x104 to register for the class.



## 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 and through the CSMS website.

Ready to have some fun? Here's a place where announcements are made and lessons can be worked on independently...

<http://pebblepups.blogspot.com>

Visit Pebble Pups on Facebook: <http://www.facebook.com/PikesPeakPebblePups.com>

For more information, email:

[steven.veatch@gmail.com](mailto:steven.veatch@gmail.com)

**2016 CSMS Officers Present at Meeting**

Jean Luce, President	X
Lisa Kinder, Vice President	
Ronald "Yam" Yamiolkoski, Secretary	X
Ann Proctor, Treasurer	X
Norma Rhodes, Editor	X
Sharon Holte, Membership Secretary	X
Doreen Schmidt, Member-at-Large	X
Ariel Dickens, Member-at-Large	
Mark Lemesany, Past President	

**2016 CSMS Chairpersons**

Kim & Bodie Packham, Show Chairs
Sharon Holte, Field Trip Director
TBD, Science Fair Chair
Frank & Ellie Rosenberg, Librarians
TBD, Social Committee Chair
Ann Proctor, Store Keeper
Jackson Peirce, Webmaster

**Sub-Group Responsibilities for Refreshments for General Assembly Meetings**

May Faceting	June Fossil	July Jewelry
Aug. Picnic	Sept. Lapidary	Oct. Micromount
Nov. Board	December Christmas Party	

**SECRETARY'S SPOT GENERAL ASSEMBLY MEETING MINUTES 9/15/2016  
by Ronald "Yam" Yamiolkoski**

The meeting was officially called to order by Jean Luce, President, at 7:04 PM. Six of the nine officers were present.

Jean immediately introduced Steve Veatch, Pebble Pups and Earth Science Scholars Chair. Steve spoke briefly about the upcoming Denver Gem & Mineral Show and how we should all be proud of our young member's participation in that event by making presentations. For the evenings program he said that some of these presenters would provide a brief presentation of their upcoming presentations at the Show. With this said, he introduced the first two speakers, Jerrod and Nathan Gallup of the LGG&MC who presented a brief program about Mammoth Cave (Kentucky). This was followed by Earth Science Scholar, Jenna Salvat who spoke about "The Mineral Significance of Cripple Creek & Victor Mining District." Lastly, Jack Shimon, who has been a Pebble Pup since he was six years old, spoke about his efforts in identifying Rudist fossils that he found in Texas. Steve ended the program by asking all to continue the work being done by the club.

Jean took time to introduce new members and guests. She also thanked Teresa Jarrell (a new CSMS member) for volunteering as our new Facebook Coordinator.

Jean continued the meeting by discussing the upcoming CSMS elections and volunteer positions that need filling.

The first volunteer position that needs filling is the position of Social Chair. This position makes sure that we have water and coffee at our meetings, organizes the snacks brought in for the meetings and makes sure that all is picked up afterwards. This person also helps out with the annual holiday party and the Pot Luck that we have during our annual show. We need a volunteer now and through 2017.

The second important volunteer position is that of Field Trip Chair. This position will be vacant in 2017. The Field Trip Chair coordinates field trips for the club making sure we have good field trips, finding field trip leaders and finally making sure the field trips are posted. The Field Trip Chair does not need to lead every field trip or any for that matter.

Jean and Yam then discussed the nomination of officers for 2017. There are many opportunities for club members to serve. Some of the current officers have indicated that they would like to continue to serve, but that does not limit others from challenging them or seeking an office with no candidate. Yam mentioned that there is nothing stopping two

people from working together to fill any one position. Jean stated that Lisa Kinder, our current Vice President will handle the responsibility of Nominating Committee Chair and is looking for volunteers to assist her.

Meanwhile, those individuals who have indicated they would seek office in the coming year are as follows: Vice President: Lisa Kinder, Treasurer: Ann Proctor, , Member-at-Large: Doreen Schmidt, Member-at-Large: Ariel Dickens, Editor of the Pick & Pack: Norma Rhodes, Past President: Jean Luce. Vacant positions are- **President: Open ,Secretary: Open, Membership Chair: Open**

Yam and Jean provided some information for those present about what was involved in each position. Formal nominations will be made at the next General Assembly meeting in October.

Yam reminded everyone of the need for volunteers to join the September 24<sup>th</sup> Field Trip to fill holes on the April Fool's Claim. This will not be a collecting trip, but rather a work field trip needed to meet BLM and Forest Service requirements.

Jean introduced our various subgroups and their chairs or representatives including Frank and Ellie Rosenberg (Librarians), Dave Olsen (Micro-mounts), Kevin Witte (Crystal Study), Sharon Holte (Lapidary Doreen Schmidt (Faceting), and Jerry Suchen (Fossils).

**SEE PICK & PACK FOR MORE INFORMATION ON CSMS GROUPS.**

Brian Paterson spoke briefly to the club about providing donation of specimens and material to School Districts 20 and 12. Anyone interested in donating material should contact Brian directly at [patersonbrian22@yahoo.com](mailto:patersonbrian22@yahoo.com).

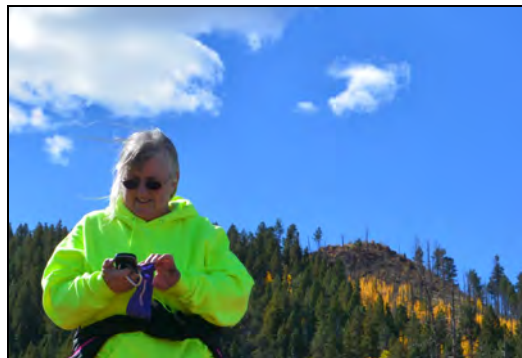
After a raffle to give away some special materials, the meeting was adjourned at 8:45 PM.



## April Fools Claim "Stewardship" Field Trip

Photos submitted by Frank Rosenberg

Message from Frank: "The names in the group pic are: First Row: John Wagar, 2nd Row left to right: Doreen Schmidt, Roger Rhodes, Norma Rhodes, Back Row left to right: Rand Hurley, Mike Luce, Yam, Randy Gage. "In addition to filling holes, the corner posts were located and posted with a certificate of location. Please make sure all that were there get the club's thanks for the work they put in. I couldn't help but include some of the fall foliage pics."



CSMS would like to thank the wonderful volunteers that showed up Sat. Sept 24, specifically Frank and Yam for leading the trip, Doreen for bringing her GPS and along with Frank & John hiked the whole claim, while the rest of the group braved the bitter winds to fill holes, rake, etc!!!

**(CONTINUED FROM PAGE 1)**

-pit mining operations or \$275 for other types.

Grading must create a final topography consistent with the final land use.

Earth dams to impound water must not interfere with mining operations or drainage and must not violate pollution regulations.

Handling of acid materials must protect the drainage system from pollution.

Refuse disposal must avoid unsightliness and other deleterious effects.

Revegetation should be comparable to that of the surrounding area and native species are preferred.

Where overburden must be removed to conduct mining operations, topsoil must be segregated and preserved.

Disturbances of the hydrologic balance and of surface and ground water must be minimized.

Surrounding areas must be protected from slides or other damage.

All surface areas must be stabilized to control erosion and air and water pollution.

The operator, subject to board approval and landowner consultation, must determine which parts of the affected land will be reclaimed for which type of uses.

Where the operator picks forest planting, he must select and plant trees in accordance with sound practices.

Fire lanes or access roads are to be constructed where necessary in areas of forest planting.

Where the operator's choice of reclamation is for grazing, slopes must not be too steep for livestock, and standards for seeding must be established.

Where the object of reclamation is agriculture, general agricultural practices must be followed.

Where development is the reclamation choice, minimum requirements are to be agreed upon between the board and the operator.

Each phase of reclamation is to be completed within five year of its commencement, with certain exceptions.

Conceding that the new law is "a good first step" toward a successful state reclamation program. Lamm cited provisions that extend reclamation requirements to cover all mining and prospecting activities in the state, including underground mines, penalty provisions for noncompliance, broaden of the mined land reclamation board to assure citizen representation, regulations to required reclamation after extensive prospecting, and increased permit and monitoring fees to reimburse the state's cost of enforcing the new law. All mining operations conducted in the state will be required to obtain a permit, with permits issued for the life of the mine rather than renewed annually as under the old law—a plus for the industry.

**MINING INDUSTRY REACTIONS MIXED.....**

Said Al Hoyl, chairman, The Environmental Protection committee of the Colorado Mining Association (CMA), "I'm happy to go out and say okay, we worked together to develop a new reclamation law. We were forced to accept a bill that included all mining. This is very difficult to do in one bill, let alone regulate. Now that we have the bill, let us work with it for a few years before we tinker with it in the form of amendment."

One big question remaining at this time, according to Dave Cole, secretary & manager of CMA, is what effect the mined land reclamation board will have on the industry when it begins setting up rules and regulations. "It could have a profound effect one way or the other," Cole said.

One real plus for the industry in the new law, noted Hoyl, is that "rules and regulations adopted by the board must be submitted to the general assembly. Overall, Hoyl and Cole believe that surface coal mine operators will profit from the new bill. Metal and mineral operators, on the other hand, will be required to do a great deal more work to obtain a permit. The law will be particularly tough on small mine operators and prospectors, but it will have little effect on larger companies.



## Classifieds



### Our Staff... Norma Rhodes—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 **21st 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. Editors will correct font.

E-Mail to:  
[csmseditor@hotmail.com](mailto: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 2014 or 2015, you are eligible for your one year pin award

Please see Storekeeper,  
Ann Proctor

1014 S 21st Street  
Colorado Springs, CO  
80904

# Roots & Rocks

Hydroponic & Organic Garden Center

[www.rootsandrocks.com](http://www.rootsandrocks.com)  
[info@rootsandrocks.com](mailto:info@rootsandrocks.com)

719-634-1024

### High Country Land Services, LLC

Land Surveying & Mining Claim Services

New Claims Staked  
Land Status Research  
Certificate and Map Preparation  
Mapping Existing Claims  
Claim Lines Marked

Jeffrey L Otten, Colo. PLS 33199  
Divide, CO 719-505-3576  
[jeffotten@highcountrylandservices.com](mailto:jeffotten@highcountrylandservices.com)  
[HighCountryLandServices.com](http://HighCountryLandServices.com)

Brian Paterson was contacted by School Districts 11 and 20 regarding the minerals and crystals that have been donated to them over the past 10 years. With the retirement of the teacher that had handled getting the materials to the science teachers, SD11 and SD20 asked Brian to continue helping out teachers with assorted minerals. The crystals do not need to be whole, cleaned or have multiple types on one sample (e.g. smokies and Amazonite). The kids range in age from Grade 3 through Grade 11. Yes you can include just about anything. Have extra fossils? Micro-mounts? Gypsum? Tumbled? Kindly label the bag/box/whatever with what it contains. You can contact Brian by phone, email or at the regular meetings. (719) 359-6238, [patersonbrian22@yahoo.com](mailto:patersonbrian22@yahoo.com)

### Announcing Awesome Upcoming Book, Mineral, and Fossil Sales!



CSM Museum



1310 Maple Street, Golden, Colorado

### Museum Friends Members Only Sale

Friday, October 28th, 2016

4 p.m. - 6 p.m.

(Drop by and become a member!)

### The Public Sale

Saturday and Sunday,  
October 29th and 30th, 2016

9 a.m. - 4 p.m.

Thousands of books, minerals, fossils, maps, etc.,  
will be available to choose from.

Prices vary by item or box. Most prices will be  
reduced throughout the event. For information,  
please call 303-273-3815.





**PICK&PACK**  
**P.O. Box 2**  
**COLORADO SPRINGS, CO 80901-0002**

Postage Here



**Time Value**  
**Do Not**  
**Delay**

### **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 the Colorado Springs Senior Center, 1514 North Hancock Ave., Colorado Springs, CO. **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.csms.us](http://www.csms.us).

### **CSMS 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)