



THE BULLETIN OF THE COLORADO SPRINGS MINERALOGICAL SOCIETY Published Since 1960

Colorado Springs
Mineralogical Society
Founded in 1936

Lazard Cahn
Honorary President
December 2018
PICK&PACK

Vol 58.. Number #10

CSMS General Assembly

Thursday, December 20, 7:00 PM

Annual Christmas Party

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

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Annual Christmas Party Details

Please mark your calendars and plan to attend the annual Christmas Party at the Mt. Carmel Veteran's Service Center on Thursday, December 20, at 7PM.

We will provide roast turkey and baked ham as well as Bill Arnson's chili. Members whose last names begin with A--P, please bring a side dish to share. Those whose last names begin with Q -- Z, please bring a dessert to share.

There will be a gift exchange for those who want to participate. Please bring a wrapped hobby-related gift valued at \$10.00 or less to exchange.

We will have a short business meeting to vote on some bylaw changes, and to elect next year's Board of Directors. The Board candidates are as follows:

President: Sharon Holte

Editor: Taylor Harper

Vice President: John Massie

Secretary: ??????

Treasurer: Ann Proctor

Member-at-Large: Laurann Briding

Membership Secretary: Adelaide Barr

Member-at Large: Bill Arnson

Past president: Ernie Hanlon

We are in desperate need of a secretary to serve on the Board. Please consider helping out in 2019.

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

CSMS Calendar

December 2018 & January 2019

Thu., **Dec. 6, Jan. 3** — **Board Meeting**, 7p.m., Pikes Peak United Methodist Church

Tue., **Dec. 4, Jan. 1** — **Fossil Group**, 7p.m., Methodist Church, Jerry Suchan, 303 648-3410

Thu., **Dec. 20, Jan. 17** — **Pebble Pups & Jrs**, 5:30p.m., Mt. Carmel Ctr., Steve Veatch, 719 748-5010

Thu., **Dec. 20, Jan. 17** — **General Assembly**, 7p.m., Mt. Carmel Center (**Jan. 17 at Golden Corral**)

Thu., **Dec. 27*, Jan. 24** — **Crystal Group**, 7p.m., Mt Carmel Ctr. Kevin Witte, 719 638-7919

***(Dec. 27 at the Rosenberg's — RSVP)**

Thu., **Dec. 27, Jan. 24** — **Faceting Group** 7p.m., at the Medina 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

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

Thurs., Dec. 6, 7:00 p.m., Friends of the Colorado School of Mines Geology Museum “First Thursday” program and Annual General Meeting. Featuring an introduction of and a talk by Renate Lafler, FGA, the new Executive Director of the CSM Museum. Refreshments served; all are welcome to attend, to come meet Renate and learn more about the Friends and the future of the CSM Museum. In GRL 201, the large conference room across the hall from the Museum.

Fri.-Sat.-Sun., Dec. 7-9, Flatirons Rock and Mineral Show, “Rocks & Rails”; Boulder County Fairgrounds, Exhibit Building, 9595 Nelson Rd., Longmont, CO. The Flatirons Mineral Club Rock & Mineral Show is combined with the Boulder Model Railroad Club Model Railroad Exposition 10 a.m. – 5 p.m. each day, adult admission \$5. See <https://flatironsmineralclub.org/about/annual-fmc-gem-and-mineral-show/>

Sun., Dec. 9, 2:00 p.m., WIPS (Western Interior Paleontological Society) annual auction. Clements Community Center, 1580 Yarrow St., Lakewood. “All are welcome to attend; proceeds benefit grants & scholarships in paleontology; earth science books; fossils, fossil replicas, minerals, art, ‘you never know what you’ll find’; potluck refreshments provided by our members”. Doors open at 2 p.m. for setup, silent and verbal auctions take place from 3 to 5 p.m.

Tues., Dec. 11, 5:30 p.m., Rocky Mountain Map Society, monthly meeting, “How maps reveal (and conceal) our history”, by Susan Schulten, University of Denver; Denver Public Library, 5th floor, Gates Room, free and open to the public.

Tues., Dec. 11, 6:30 p.m., at the Denver Museum of Nature & Science, Gates Planetarium, **‘Cities, and a World, at Risk’**, by Dr. Bob Reynolds. Colorado Scientific Society annual President’s Address; 6:30 p.m. social time, 7:00-9:00 p.m., presentation and discussion. All are welcome; no admission charge. See <http://coloscisoc.org/> for more information.

For more lecture series during the year see:

Colorado Beer Talks (2nd Tuesday, 6-8 p.m.), Windy Saddle Café, 1110 Washington Avenue, Golden, “Golden’s grassroots version of TED talks, Expand your mind with a beer in your hand”, <http://goldenbeertalks.org/>

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/>

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Colorado Scientific Society (3rd Thursday, 7 p.m.), see <http://coloscisoc.org/>. Meets at Shepherd of the Hills Church, 11500 W. 20th Ave., Lakewood, CO, except when noted.

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

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

Van Tuyl Lecture Series, Colorado School of Mines, (Thursdays, 4 p.m.): <https://geology.mines.edu/events-calendar/lectures/>

Denver Mining Club (Mondays, 11:30 a.m.), see <http://www.denverminingclub.org/>

Denver Museum of Nature and Science, Earth Science Colloquium series, 3:00-4:00 p.m., VIP Room unless noted, day of the week varies. Museum admission is not required; see <http://www.dmns.org/science/research/earth-sciences/>

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

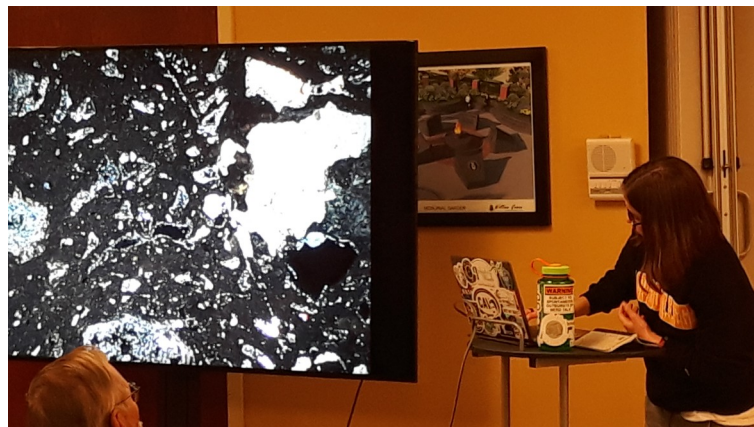
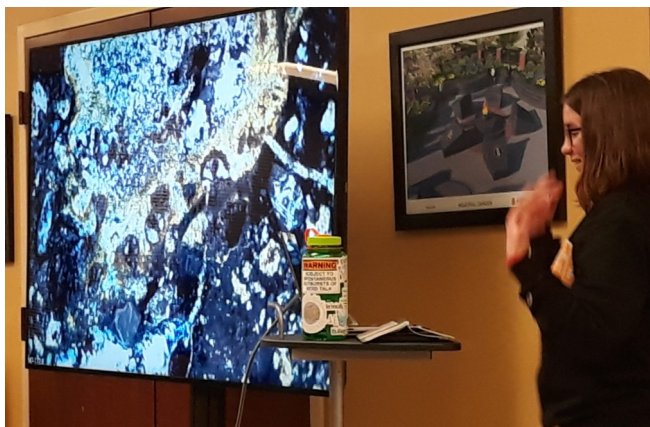
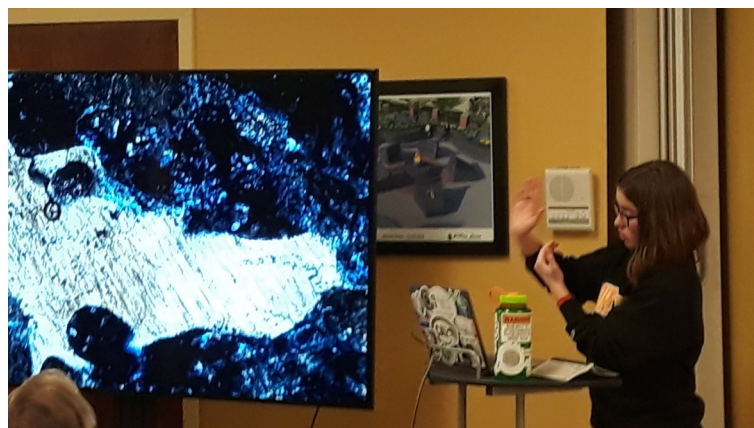
Florissant Scientific Society (FSS); meets monthly in various Front Range locations for a lecture or field trip; meeting locations vary, normally on Sundays at noon; all interested persons are welcome to attend the meetings and trips; see <http://www.fss-co.org/> for details and schedules.

Nerd Night Denver is a theater-style evening featuring usually 3 short (20-minute) TED-style talks on science or related topics; held more-or-less monthly at the Oriental Theater, 4335 W. 44th Ave., Denver; drinks are available; for ages 18+. Admission is \$6 online in advance, \$10 at the door. See <https://www.nerdniteddenver.com/>

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

Western Interior Paleontological Society (WIPS); beginning January, 2019, WIPS will meet on the 1st Monday of the month, 7 p.m., at Lowry Conference Center, 1061 Akron Way, Denver; <http://westernpaleo.org/>

**Jenna Salvat discussing The Manson Impact Structure
at the November 15, 2018 General Assembly**



Photos by Randy Hurley

KANSAS PSEUDOMORPHS: LIMONITE AFTER PYRITE

Mike Nelson csrockguy@yahoo.com

A couple of years ago, while attending the RMFMS meeting in Wichita, Kansas, a gentleman walked in with a paper bag and approached a dealer where I was examining a few specimens. He opened the bag and asked the dealer if he could help identify his rocks. Being curious, I stayed around to look at “what was in the bag.” To my surprise, he dumped several nice mineral octahedrons (Fig. 1) on the case and said he found them along a “draw” over in Marion County. Well, this really piqued my interest since mineral crystals are not all that common in Kansas—except for the Tri-State Lead and Zinc District in the southeast part of the state. My initial guess, without handling the specimens, was weathered magnetite. I hustled away to locate a magnet and a loupe from a friend but alas, when I returned, the sack was “gone” and the dealer said the specimens were purchased by “someone.” So that tale ended there on the Kansas prairie.

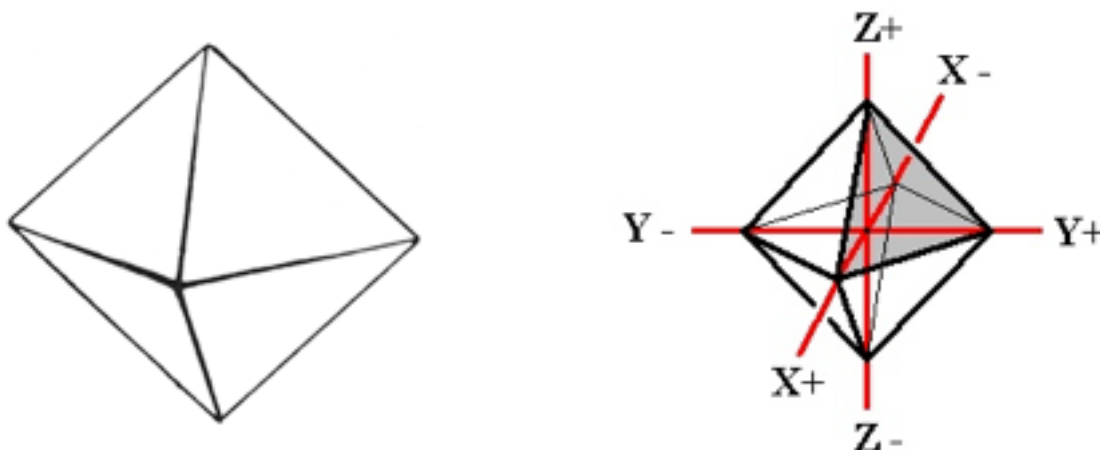


Fig. 1. A generic octahedron mineral belonging to the Isometric System (left). Crystals in this System have three axes of equal length meeting at 90 degrees, labeled above as axes X+ X-, Y+ Y-, and Z+ Z- (right). Diagrams courtesy of metafysical.nl.

Upon returning home I could not find evidence of larger specimens of magnetite that had been found in Kansas. A few small octahedrons are present in the kimberlites north of Manhattan and the “black sands” found in western Kansas streams usually contain tiny magnetite grains (detected by a magnet). That was about it until I ran across a reference to a small article published by A.C. Carpenter in the 1941 *Transactions of the Kansas Academy of Science*, New Mineral Localities in Kansas:

Although small octahedrons of limonite pseudomorphs after magnetite or pyrite have been found in Kansas for at least 50 years [late 1880s], definite localities where they could be found remained unknown. All known collections either bore the label “from Kansas” or else carried the name of a county as McPherson, Dickinson, and Marion. Last New Year’s week I...found a number of octahedrons of limonite pseudomorphs on the John Reimer farm in sec. 12, T. 18 S., R. 4 E., 1 mile north and 1 ¼ miles east of Lincolnville in Marion County...A second locality is reported to be near Roxbury in McPherson County.

A glance of the Kansas Geological Survey’s selection of county geologic maps indicates that Marion County does not have a county report nor county map. Therefore, the larger scale State Map was used to place the collecting locality in Permian strata, probably rocks of the Sumner Group (redbeds and evaporite). In addition, Carpenter noted that additional limonite pseudomorphs were reported (no reference) “to be near Roxbury.” That small town is in northeastern McPherson County, east of Marion County, where a small sliver of Sumner Group rocks, maybe the lower formation (Wellington) crop out along a creek. That is my best guess; however, I cannot locate references describing pyrite (or limonite) in these rocks.

Mindat.org believes that limonite is probably not a recognized mineral name but is used for unidentified massive hydroxides and oxides of iron, with no visible crystals and a yellow-brown streak. Limonite is most commonly the mineral goe-

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thite ($\text{FeO}(\text{OH})$). Chemically, limonite is $\text{Fe}_2\text{O}_3 \cdot \text{OH}$, H_2O or $\text{Fe}_2\text{O}_3(\text{OH}) \cdot n\text{H}_2\text{O}$. Pyrite is FeS_2 and limonite forms during chemical weathering where water hydrates the iron, but the original crystal shape of pyrite remains.

One of my former students, living in Kansas, knew I was interested in these Kansas crystals and sent me a copy of a brochure published by a New York mineral dealer in 1902 (Fig. 2). One of the minerals offered for sale by George L. English was *LIMONITE PSEUDOMORPHS AFTER MAGNETITE, Kansas. Excellent 1/4 to 3/8 inch octahedrons, 1 dozen for 10c*. Evidently the 1902 brochure came from a 2017 discussion on MinDat (<https://www.mindat.org/mesg-7-409374.html>) where a consensus was reached that the crystals were limonite after pyrite rather than after magnetite.



A Beautiful Phantom Crystal
of **SELENITE**, of best quality, and at least $1\frac{1}{4}$ inches long, postpaid for 10 cents. Transparent Selenite crystals, nearly or quite perfect, and 1 to $1\frac{1}{4}$ inches long, only 5 cents postpaid. Lenticular Selenite crystals from Australia, 1 to 3 inches, 10c. to 50c. Many other beautiful varieties of Gypsum.

SPECIAL OFFERS for NOVEMBER.
Any of the following postpaid on receipt of price.

CYLINDRITE, a new tin mineral from Bolivia in unique groups of foliated cylinders, 1 x $1\frac{1}{4}$ inches 20c.
ARSENIC, Japan. Curious little balls of crystals, $\frac{1}{4}$ to $\frac{1}{2}$ inch 10c.
RUTILE, N. C. Highly lustrous needles, 1 inch or more long, 1 dozen for 10c.
ANALCITE, Colo. Showy groups of crystals, $1\frac{1}{4}$ x $1\frac{1}{4}$ inches 12c.
STILBITE, Nova Scotia. Splendid groups of sheaves, $1\frac{1}{4}$ inches 12c.
BLOODSTONE, India. Cut and polished ready for cuff buttons; $\frac{5}{8}$ inch 10c.
TIGER EYE, S. Africa. Beautiful and polished slabs, 1 $\frac{1}{4}$ inches 8c.
TOPAZ, Schneckenstein. Transparent yellow crystals, $\frac{1}{4}$ inch, 2 for 6c.
AMETHYST, N. C. Good crystals and good color, over 1 inch 6c.
LIMONITE PSEUDOMORPHS AFTER MAGNETITE, Kansas. Excellent $\frac{1}{4}$ to $\frac{3}{8}$ inch octahedrons, 1 dozen for 10c.

All of the above special offerings postpaid on receipt of \$1.00.

EXTRA FINE AND RARE MINERALS. LOOSE CRYSTALS.
MINERALS FOR THE LABORATORY. MINERALOGICAL SUPPLIES.
124-page ILLUSTRATED CATALOGUE, describing every mineral, 25c. in paper.
44-page ILLUSTRATED PRICE-LIST, also BULLETINS and Circulars FREE.

GEO. L. ENGLISH & CO., Mineralogists,
Dealers in Educational and Scientific Minerals,
3 & 5 WEST 18th STREET, - - - NEW YORK CITY.

Fig. 2. Advertising brochure from George L. English.

However, there is more to the story. The first tidbit is that I recently was rummaging around a rock shop and behold there was a stray octahedron with a label stating, "limonite after magnetite, Kansas." It had to be! Yep, it looked just like the newly determined limonite after pyrite crystals pictured on MinDat. So now, I finally had one of these somewhat elusive Kansas crystals (Fig. 3).



Fig. 3. Octahedron of limonite pseudomorph after pyrite. Axes are ~1.2 cm.

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The second tidbit involves the New York dealer, George L. English. According to the Mineralogical Record Biographical Archive, English was a very famous collector and dealer (certainly more so than I knew). He was born in Philadelphia (1864) and was selling minerals in that city by 1887: "a truly wonderful assortment of Arizona wulfenites, vanadinites, azurites, and malachites in addition to fine Franklin fowlerites." He picked up a couple of partners and opened a New York branch in 1887 and by 1889 his ad stated, "We deal exclusively in minerals...It is universally acknowledged that we have the finest and most complete stock of minerals in the United States." In 1896 English incorporated his company, now completely in New York, and sold 150 shares (at \$100 each) (Fig. 4). Mr. Lazard Cahn was a member of the Board of Directors. English spent the latter part of his life working for, and with, Ward's Natural Science Establishment, serving as a consulting mineralogist, evaluating collections and establishing monetary values for minerals, and writing a very popular book entitled *Getting Acquainted with Minerals*. He recognized as new minerals penfieldite, graftonite, pyroxmangite, and skemmatite, and referred them to investigators for detailed descriptions. A rare hydrous phosphate of calcium, potassium, and aluminum from near Fairfield, Utah, was named englishite in his honor. English died in 1944.



Fig. 4. Mineral labels, early 1900s, of New York mineral dealers George L. English and Lazard Cahn. Both from the Mineralogical Record label collection.

Of interest to me, other than the limonite after pyrite octahedrons, was English's relationship to the founder, and Honorary President for Life, of my home club, the Colorado Springs Mineralogical Society.

Wilson, in the Mineralogical Record Biographical Achieves, noted Cahn began dealing in mineral specimens for pleasure in the mid-1890's from his offices in New York City. Cahn's first advertisement appeared in the Exchange Column of the July 1895 issue of *The Mineral Collector*. He wanted to buy or exchange for "very choice, well crystallized American minerals," and offered for sale Colorado amazonite and orthoclase twins, rhodochrosite crystals on matrix, bastnasite pseudomorphs, arfvedsonite crystals and pyrite crystal groups. So, by 1896 Lazard Cahn evidently was a well-respected mineral collector/dealer living in Colorado Springs while keeping an office in New York and was invited to join the Board of Directors of the George L. English Company.



Postscript. *I've always loved life, and I've never known what's ahead. I love not knowing what might be round the corner. I love serendipity.* (Twiggy). So, it goes, round and round: Octahedron pseudomorphs---George English---Lazard Cahn---Colorado Springs Mineralogical Society---Mike---Octahedron pseudomorphs!!

***Duria Antiquior*: A Nineteenth-Century Forerunner of Paleoart**

By Steven Wade Veatch

In a breath of inspiration in 1830, English geologist Henry De la Beche (1796–1855), while exploring new intellectual territories in the emerging fields of paleontology, painted *Duria Antiquior* (meaning “a more ancient Dorset”), a representation of a prehistoric Dorset coast. De la Beche’s work was groundbreaking—his artwork combined science and art in the first artistic rendering of a paleontological scene, while laying bare the secrets of the past. Before 1830, art depicting the prehistoric world did not exist and these realms were unknown to the public (Porter, n.d.). While it is true that scientists made drawings of fossil animals and exchanged them with each other in private letters, the public had no concept of how prehistoric animals looked. This painting opened people’s imagination to new visions, thoughts, and beliefs.

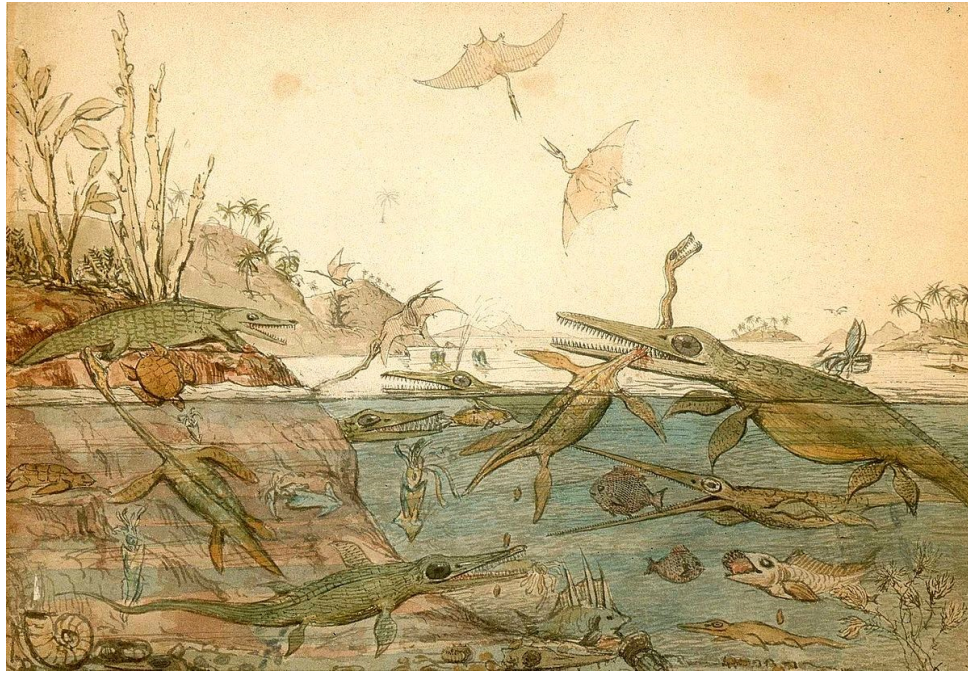


Fig. 1. *Duria Antiquior*. A watercolor painted in 1830 by Henry De la Beche who conjured up a vivid picture of an ancient world. *Duria Antiquior* is now in the National Museum of Wales. (Image is public domain).

De la Beche’s painting also laid the foundation for a new genre that would later be known as *paleoart*, an artistic genre that reconstructs prehistoric life according to the fossil record, scientific understanding, and artistic imagination. De la Beche’s brushstrokes of prehistoric time included (literally) all the information known at that time about ancient life and soon became the first teaching graphic used in the classrooms of the Golden Age of Geology, a period from 1788 to 1840 (Clary R. M., 2003). Today, this graphic would be equivalent to a PowerPoint slide in a classroom.

De la Beche’s *Duria Antiquior* brings the viewer face-to-face with creatures that once lived in a coastal sea where these animals fought a deadly battle for survival, a typical theme of nature in the Regency era (McGowan, 2001). The scene is remarkable: a toothy ichthyosaur bites into the long neck of a plesiosaur, while another plesiosaur tries to grab a crocodile on the shore (De la Beche’s ichthyosaur is minus the triangular dorsal fin and vertical tail fin that, from later fossils found in Germany, we now know it had). A turtle quietly dives into the water. What would become coprolites (fossil excrement) drop from a terrified plesiosaur (Davis, 2012). Other creatures patrol the deep waters for food, while two pterosaurs dive toward each other in the sky. Belemnites appear like squids. Hollow am-

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monite shells rest on the bottom of the sea and crinoids (sea lilies) are portrayed in the lower right corner. Groves of palm trees grow on the shore. All of this is rendered through the painter's use of a restrained palette of browns, greens, and blues.

Another striking feature of the painting is how it is divided. The waterline reveals the action above and below the water's surface (Rudwick, 1992). The *Duria Antiquior* is the first example of what is known as the aquarium view that would become a Victorian trend several years later (Clary & Wandersee, 2005). The area above the waterline is further divided into two areas of activity—action on the land and in the sky. De la Beche wanted the viewer to be convinced of his portrayal of a prehistoric scene.



Fig. 2. Portrait of Mary Anning with her dog, Tray. This painting was owned by her brother, Joseph, and given to the Natural History Museum, London in 1935 by Mary's great-great niece, Miss Annette Anning. (Image is public domain).

De La Beche based the *Duria Antiquior* on fossils found by Victorian fossil collector, Mary Anning (1799-1847), along the Dorset coast near the resort town of Lyme Regis (Brewster, 2016). Anning was from a poor family, who frequently found themselves on the far side of desperate. To ease these brutal financial circumstances, the family earned money by collecting and selling fossils. As a child, her father would take Mary Anning and her brother, Joseph, fossil hunting by the fossil-rich cliffs near Lyme Regis. They returned home with fossils and, with superior skill, cleaned and prepared them, and then sold them to tourists as curios. Anning, aged 11, continued the family business after her father died of tuberculosis and heavily in debt.

By 1830, Anning was a celebrity among the leading constellation of British geologists for her knowledge and skill in collecting and preparing fossils (Cadbury, 2000). Anning is credited with finding the first ichthyosaur skeleton to be recognized and the first two plesiosaur skeletons ever found. Her discovery of these marine reptiles had created a sensation in the scientific community (McGowan, 2001).

Anning frequently found herself in financial straits due to harsh economic times in Britain, and from the unpredictability of finding and selling fossils. Being strapped for money restricted her ability to find fossils. De la Beche wanted to keep her in the field hunting fossils. To that end, he arranged to have prints of *Duria Antiquior* made and then sold the copies for £2 10s (approximately £213 or \$279 today) each (Rudwick, 1992). De la Beche gave the profits—with great enthusiasm—to Anning,

so she had more time to hunt for fossils and seashells along the seashore. The painting was a smashing success and, to meet the enormous demand for the prints, the *Duria Antiquior* was reprinted and redrawn several times.

The *Duria Antiquior* pushed the boundaries of science and art at the end of the Regency period in Britain. This avant-garde watercolor became the first scene of prehistoric animals interacting with each other in their ancient environment, all based on known science at the time. This was the earliest such art to be widely distributed and helped shape the understanding of prehistoric life on Earth.

References

Brewster, S. (2016, July 4). *Duria Antiquior, A More Ancient Dorset*. Retrieved from Eastern Biological: <https://easternbiological.co.uk/blogs/news/duria-antiquior-a-more-ancient-dorset>

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- Cadbury, D. (2000). *The Dinosaur Hunters: A True Story of Scientific Rivalry and the Discovery of the Prehistoric World*. Foulsham.
- Clary, R. M. (2003). *Uncovering Strata: an Investigation into the Graphic Innovations of Geologist Henry T. De la Beche*. Retrieved from LSU Doctoral Dissertations: https://digitalcommons.lsu.edu/gradschool_dissertations/127/
- Clary, R. M., & Wandersee, J. H. (2005). "Through the Looking Glass: The History of Aquarium Views and their Potential to Improve Learning in Science Classrooms. *Science and Education*, 579–596.
- Davis, L. E. (2012). Mary Anning of Lyme Regis: 19th Century Pioneer in British Palaeontology. *Headwaters: The Faculty Journal of the College of Saint. Benedict and St. John's Universtiy*, 96-128.
- McGowan, C. (2001). *The Dragon Seekers*. New York: Perseus Publishing.
- Porter, S. (n.d.). *Paleontology Needs Paleoart*. Retrieved from Earth Archives: <http://www.eartharchives.org/articles/paleontology-needs-paleoart/>
- Rudwick, M. J. (1992). *Scenes from Deep Time: Early Pictorial Representations of the Prehistoric World*. Chicago: The University of Chicago Press.

Colorado Springs Mineralogical Society Rock Hound of the Year

Kevin Witte, longtime leader of the CSMS Crystal Group, is selected as the 2018 recipient of the CSMS Rock Hound of the Year award.

Kevin has served as the crystal group chair for 6 years. Under his leadership, the crystal group experienced steady growth due to several factors. Kevin reinvigorated the Crystal Group with new and varied teaching tools, from educational videos supplied by the *Mineralogical Record* magazine, to online crystal structure instructional videos. Kevin even created a "crystal bingo" game that made learning fun for club members of all ages.

Kevin's field collecting has ranged from Arkansas to Utah, and New Mexico to Wyoming. He specializes in Pikes Peak batholith minerals and maintains two mineral claims near Lake George, Colorado. He prospected different areas over 30 times this past year. Kevin hosted field trips to his claim, and donated crystals to the club's silent auction. He also gave motivational gifts to speakers in the Junior Earth Science Scholars Program.

As an educator, Kevin has written 15 articles on local mineral finds and rock hounding best practices for his "Rock Hounding the Rockies" blog. His blog has received over 25,000 visitors this past year and provided informative and entertaining reading for followers from Brazil to Vietnam. He spoke by invitation to an audience of over 50 college students at Ft. Lewis College, Durango, CO. On more than one occasion Kevin brought in mineral finds to CSMS General Assembly meetings for all to learn from and enjoy.

In addition to Kevin Witte's leadership and educational roles, he received recognition from the RMFMS and AFMS for his writing skills. He wrote a heartfelt reminiscence of his rock hounding mentor Ray Berry.

Kevin helped arrange for CSMS General Assembly speakers. He assisted with the silent auction by sorting, identifying and taking payment for minerals at the Club's annual Gem and Mineral Show. He also received recognition this year from last year's Club president, Ernie Hanlon, for his tireless efforts in supporting Ernie and various Club activities in the prior year.

Kevin Witte is most deserving of the title Rock Hound of the Year!



Kevin Witte holding a very large smoky quartz specimen from the Lake George, Colorado, vicinity.

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>



Ben Elick, CSMS Junior Rock of the Year 2018

Ben Elick: Colorado Springs Mineralogical Society Junior Rock Hound of the Year

Ben Elick a CSMS Pebble Pup and Earth Science Scholar has been selected as the CSMS Junior Rock Hound of the Year. Ben has been an active member of the Colorado Springs Mineralogical Society for over 5 years. Ben clearly demonstrates tireless dedication to the hobby as an active volunteer and club member.

Ben's contributions to the club and the hobby are numerous and varied. He assists the adult leaders with the Pebble Pup sessions and has taught some of the sessions himself. He has demonstrated the scientific and technical aspects of our hobby to the youth of the Pikes Peak region through venues such as Family Geology Day at the Western Museum of Mining and Industry and at the Cool Science programs at UCCS and Colorado College. He has assisted Steven Veatch with his annual Winter Fossil Poetry Walk at the Florissant Fossil Beds. Ben is also involved with the annual writing class at WMMI where he is a class assistant and photography instructor.

Ben is interested in repeat photography, a technique that juxtaposes historic photographs with his own modern versions taken from the same place and point of view. To further his knowledge of the process, Ben has met with the Douglas County History Director to learn about working with historic photos and research in order to prepare for the preservation and digitization of the historic photographs in the collection of the Cripple Creek District Museum. As a volunteer at WMMI, Ben has been learning archivist skills and will be working on curating historic documents. Using the above skills, Ben has developed a presentation that demonstrates the repeat photography process by featuring historic gold mining operations, the Garden of the Gods, Rainbow Falls, and other geological and cultural sites.

Ben is a published author, and he has presented on Cripple Creek Minerals at the New Mexico Mineral Symposium, on repeat photography at The Geological Society of America at Iowa State University, as well as the CSMS General Assembly and the Denver Gem and Mineral Show. He received a first place award for his article on barite for the bulletin contest from the RMFMS, and he received an award from the GSA for the excellence of his oral presentation on repeat photography on April 17, 2018.

The Colorado Springs Mineralogical Society is indeed fortunate to claim Ben Elick as our Junior Rock Hound of the Year 2018.

2018 CSMS Officers

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Randy Hurley, Vice-President

Open, Secretary

Ann Proctor, Treasurer

Adelaide Bahr, Membership Secretary

Larry Jones, Editor

John Massie, Member-at-Large

Laurann Briding, Member-at-Large

Ernie Hanlon, Past President

2018 CSMS Chairpersons

Randy Hurley, Program Coordinator,

Mike Webb, Field Trip Co Coordinator

Ernie Hanlon, Field Trip Co Coordinator

TBD, Science Fair Chair

Frank & Ellie Rosenberg, Librarians

Mark Schultz Social Committee Chair

Ann Proctor, Store Keeper

Lisa Kinder, Webmaster

Lisa Kinder, Facebook Keeper

Mike Nelson, Federation Representative

TBD, Federation Representative

SECRETARY'S SPOT by Sharon Holte

General Meeting Minutes for the Colorado Springs Mineralogical Society — 11/15/2018

The meeting was called to order by our President, Sharon Holte, at 7:06 p.m. followed by the Pledge of Allegiance.

Sharon asked everyone to stay for the Business Meeting. We needed to vote on Rockhound of the Year; Article VII, Para 8 – Western Museum of Mining and Industry; Article VII, Para 9 – RMFMS/AFMS Rock Hound of the Year Award, and select the 2019 Board. We still need an Editor, a secretary and a member at large.

Our guests were; Steve Cullen and wife and Lewis from the Gold Prospectors of Colorado. There were no new members.

There were several nominations for Rock Hound of the Year. The three finalists selected by the Board were Sharon Holte, Ernie Hanlon and Kevin Witte. Phil Spry made the announcement that it was a very close race, but Kevin Witte won. Congratulations Kevin. His name will be passed on to the RMFMS.

The program was given by Jenna Salvat on The Manson (IA) Impact Structure. This was an amazing presentation on meteorites and their ensuing impact structures. It was originally thought this meteor strike was the one responsible for the disappearance of the dinosaurs, etc. Later this supposition was disproved.

Break for 20 minutes - for drinks, cookies, goodies and door prizes.

There were about 29 people at this meeting; only three mineral specimens were given out. Taylor Harper donated several minerals.

The approval of October minutes as printed in the Pick & Pack was not voted on. We had only 23 members present which did not meet the quorum requirements.

We still need a secretary, an editor and a member-at-large. Also, not voted on were several changes needed to our Constitution and By-Laws. We need to Add Article VII, Para 8 – The grant for the Western Museum of Mining and Industry and Article VII, Para 9 – CSMS Rock Hound of the Year and the CSMS Junior Rock Hound of the Year. Also, the Board has been working on updating the Positions Descriptions and these will need to be voted on.

President, Sharon Holte, reported on the Calendar of Deadlines which has been developed by the Board over the last year. This will be added to the Presidents duties.

The Board of Directors Nominations are as follows: President, Sharon Holte; Vice-President, John Massie; Treasurer, Ann Proctor; Membership Secretary, Adelaide Bahr, Past President, Ernie Hanlon, Editor – still needed; Secretary, still needed; Member-at-Large, Laurann Briding; and Member-at-Large, still needed.

Vice-president, Randy Hurley, gave a list of the next speakers: January, Steve Veatch; February and March, open.

(Continued on page 12)

2018 Satellite Group Chairpersons

Crystal, Kevin Witte/Bob Germano

Faceting, John Massie/Doreen

Fossil, Jerry Suchan/Joyce Price

Jewelry, Bill Arnson

Lapidary, Sharon, Holte

Pebble Pups, Steven Veatch/
Betty Marchant

2018 CSMS Liaisons

Florissant Fossil Beds
National Monument, Steven Veatch

Western Museum of
Mining & Industry, Steve Veatch

(CONTINUED FROM PAGE 11)

Secretary, Sharon Holte: The Christmas Party will be held on December 20, 2018 in place of the General Assembly meeting, a gift having to do with our hobby and \$10.00 or under to be exchanged, A thru P bring side dishes, Q thru Z bring desserts. Larry is working on ham and turkey and Bill Arnson will bring Chili. Further, Sharon and the Board are working on updating the Position Descriptions. There are ten copies available to-night. The duties were changed according to the notes each officer made during the year. Sharon has also reformatted them for ease of reading. They will be posted in the Pick & Pack and voted on in December before the Christmas Party.

Membership Secretary, Adelaide Bahr: There were no new members. Adelaide gave a report on the research she did, 2018 Mineralogy Clubs Membership Fee Survey. For a copy of the report see the President's binder. In essence, we are in alignment with our dues taking into consideration how much we pay for meeting places and how much we give out in grants and scholarships.

Larry Jones, John Massie, Ernie Hanlon and Laurann Briding were absent.

Website Coordinator, Lisa Kinder, will work on the member's only section after viewing the Lake George Gem and Mineral Clubs website with Randy Hurley.

Show Chairman, Lisa Kinder, has received many pictures of minerals. She will use some of them on the post cards; others will be used on the show website.

Crystal Group, Kevin Witte: There will be no crystal club meetings in November and December. However, Frank and Ellie Rosenberg will host a social get together at their house on December 27, 2018, more to follow.

Fossil Group, Jerry Suchan, will meet at the Pikes Peak United Methodist church on December 4. Ernie Hanlon to talk about the Burgess Shale, 508 myo and Jerry will talk about earlier fossils – Aricopa.

Jewelry Group, Bill Arnson, and Lapidary Group, Sharon Holte are still by appointment only

Meeting adjourned by our President, Sharon Holte at 8:43 p.m.

Respectfully submitted by Sharon Holte, Acting Secretary.

Please read the information below. We will vote on this addition 12/20/2018

Add to the By-Laws as Article VII, Para 8,

Western Museum of Mining and Industry support: The Society hereby establishes an annual grant of \$500, as funds are available, for the support of the Museum. This grant will be funded by the Society from the following resources: proceeds from the Annual Pikes Peak Gem, Mineral, and Jewelry Show and the Annual Show Silent Auction and contributions to the Scholarship Fund.



Colorado Springs Mineralogical Society

Post Office Box 2, Colorado Springs, CO 80901

www.csms1936.com

2019

APPLICATION FOR MEMBERSHIP

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

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

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

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

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

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

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

Signature of Primary Applicant or Guardian if Minor

Application Date:

Mail this form and your payment to: Colorado Springs Mineralogical Society, PO Box 2, Colorado Springs, CO 80901
Membership Chair: Rev: 11/29/18

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

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

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

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

I/we know the risks and danger involved in such activities and that unanticipated and unexpected dangers may arise during such activities, and I/we assume all risks of injury to my / our persons and properties that may be sustained in connection with the stated and associated activities in and around the premises.

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

Winter Writer's Nonfiction Writing Class

*Come to a writing class for
students and learners of all
ages!*

January 26, 2019

9:00 am to 12:30 pm

Western Museum of Mining and Industry

225 N Gate Blvd, Colorado
Springs, CO 80921-3004
719.488.0880 | Toll Free:
800.752.6558

The course fee is \$45 for adults
and \$15 for students (21 and
under). WMMI members
receive \$5 off adult fee. CSMS
and Lake George Club
members receive a \$30
discount.



Are you ready to take your writing to the next level? The Western Museum of Mining & industry provides an intimate, inclusive program in a remarkable setting. This class combines excellent instruction with valuable resources and is ideally suited for the general public, teen writers, and beginners.

Immerse yourself in this intensive, half-day winter writing class designed for those who want to learn more about nonfiction writing and publishing. Writing about nature, science, history and other nonfiction subjects offers exciting opportunities to be published. Magazines, newspapers, bloggers, clubs, and schools are looking for articles to share with their audience, and this class can teach you how to publish.

Class highlights

- Work with published authors who will teach the class
- Learn about creative nonfiction, nature writing, science writing, and history writing
- Discover powerful research methods
- Identify and develop story ideas
- Practice how to outline and structure stories
- Learn potent craft tips
- Work with photos for your articles
- Understand the role of an editor in the publication process
- Discuss publication issues and learn some tips on publishing

(Continued on page 16)

(CONTINUED FROM PAGE 15)

A certificate will be awarded by the museum upon completion of the class. All other course materials will be provided including a morning reception. A writer's resource kit on digital media will be available for purchase from the instructor for \$10 to continue the training beyond the class at the museum.

Instructor bios:

Steven Veatch grew up in the Pikes Peak region and earned degrees at Colorado State University at Pueblo (BSBA), Webster University (MA), and Emporia State University (MS Earth Science). He is a writer of essays, book reviews, science articles, and professional papers. He has published over 150 articles on nature and science. He has contributed chapters to these three books: *Field Trips in the Southern Rocky Mountains, USA, Field Guide 5*; *The Paleontology of the Upper Eocene Florissant Formation, Colorado*; and *The World's Greatest Gold Camp: An Introduction to the History of the Cripple Creek and Victor Mining District*.



He was an associate editor of *Leonardo*, a literary and art journal published by the English Department of Central New Mexico Community College for three years. He is a regular at a writer's retreat held in the woods of northern Michigan at the Interlochen College of Creative Arts.

Ben H. Elick has published a number of nonfiction articles in newspapers and magazines, notably the international Earth science magazine *Deposits*. He recently presented his co-authored paper on repeat photography at the Geological Society of America's North-Central Section Meeting in Ames, IA and on Cripple Creek minerals at the New Mexico Technical Institute of Mining and Technology in Socorro. This will be his third year assisting with this writing class. He is currently a student and lives in Douglas County.



Family Geology Day at Western Museum of Mining and Industry

On behalf of the Western Museum of Mining and Industry I would like to invite the CSMS to join the Pebble Pups at the Family Geology Day on January 5 (Saturday), 2019. This involves setting up a table with a display that promotes our hobby and having someone from the club to sit behind it and meet the public. This day can be shared between several members. The museum will provide a table.

The Family Geology Day is from 10am-3pm, set up anytime between 8-9:30am. The museum opens at 9am so visitors may start arriving prior to 10am. Museum closes at 4pm, so take down any time after 3pm but probably closer to 4pm (depends on visitors). This is an excellent chance to have a display on a table and meet the public while you promote our club. Please let me know if you or other members from the CSMS can participate.

Thanks.

Steven Veatch,
Secretary, Board of Trustees
Western Museum of Mining and Industry

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

ROCKS & RAILS

December 7-9 10am – 5pm

Adults \$5 ::: Children 12 & Under Free with paid Adult

Discount 3-day admission pass available on Friday

Boulder Model Railroad Club 41st Annual

Model Railroad Exposition

Come one, come all, and enjoy the Boulder Model Railroad Club (BMRC) Exposition where you can see many different Scale and Toy Train Layouts for the young and old alike. The show will also have many displays of Model Train related items to both teach and entertain everyone. This includes many vendor tables where you can purchase railroad-related items just in time for the Holidays.



bouldermodelrailroadclub.org

Flatirons Mineral Club 2018 Annual

Rock & Mineral Show

Gem and mineral dealers, exhibits, speakers, grab bags, rocks, children's activities, kids' wheel, dig site, fossils, meteorites, tools jewelry, classes, and more! Bring your treasures for free mineral identification. Demonstrations include polishing rocks using lapidary equipment, gold panning, and silversmithing.



flatironsmineralclub.org



ATM & Food Service Available at the Show
BOULDER COUNTY FAIRGROUNDS LONGMONT
MAIN EXHIBIT BUILDING 9595 Nelson Road Longmont, CO 80501

Bad Weather? Call 303-591-2830 to see if we're open





PICK&PACK

P.O. Box 2

COLORADO SPRINGS, CO 80901-0002

Postage Here



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