



PICK&PACK

THE BULLETIN OF THE COLORADO SPRINGS MINERALOGICAL SOCIETY Published Since 1960

May
2013

PICK&PACK

Volume 53

Number 04

CSMS General Meeting Thurs. May 16, 2013 7PM History & Geology of Last Chance Mine, Creede, CO

By Jack Morris, Owner & Operator

The Last Chance Mine is a working mine and Rockhounding site. It features historic buildings and a museum. Turquoise, amethyst, galena, zinc, sphalerite, native silver, copper and many others can be collected there. For more information see www.lastchancemine.com.

The CSMS Pikes Peak Gem & Mineral Show & Rock Fair, June 7-9 9AM – 5PM Fri. & Sat., 9AM – 4PM Sun.

Meteorites & the 40th Anniversary of the Canon City Meteor
Western Museum of Mining and Industry.

See a Piece of the 2013 Russian Meteorite

CSMS is partnering with the Colorado METeorite Society (COMETS) to celebrate the 40th year anniversary of the Canon City Meteorite Impact. There will be museum exhibits and exhibits from the COMETS. There will also be mineral and fossil exhibits. (For more details see pg 7.)

May & June Field Trips

YAM STILL NEEDS VOLUNTEERS TO LEAD FIELD TRIPS

yamofthewest@gmail.com;

Sat, April 27, 2013 North Table Mountain Zeolites Dennis Gertenbach, FMC
Sat, May 04, 2013 Fountain Creek Walk Yam
Sat, May 11, 2013 April Fools Claim John Casto
Sat, May 11, 2013 GPOC (Woody's Claim) Gold Panning Yam
For details see. <http://www.csms.us/events/eventsindex.html>

FOSSIL GROUP UP & RUNNING—COME JOIN US May 7!!

Jerry Suchans will present a program entitled “Anthropocene” (Age of Humans)” by Dr. Bob Reynolds of the Colorado School of Mines and the Museum of Science and Technology. Dr. Reynolds presented this program to the WIPS (Western Interior Paleontological Society) on April 1. See pg 7 for more details.

Continuing Episodes of The Prospectors on the Weather Channel Tuesdays. at 7 PM

Join the Lake George Club at Denny's in Woodland Park to view the continuing episodes. E-mail Dick Lackmond so he can let Denny's know how many are coming. dlackmond@q.com

CSMS is an incorporated non-profit 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.

Proud Members of:

American Federation of Mineralogical Societies (AFMS)
www.amfed.org

Rocky Mountain Federation of Mineralogical Societies (RMFMS)
www.rmfmms.org

Colorado Federation of Gem & Mineral Societies (CFGMS)

**Colorado Springs
Mineralogical Society**
Founded in 1936

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**Treats for May to be
provided by the Jewelry
Group**

CSMS Calendar

May 2013

Thu., May 2—Board Meeting, 7 pm., Senior Center.

Sat., May 4—Lapidary, 10-2 pm., Sharon Holte 217.5683.

Tue., May 7—Fossil Group, “Anthropocene” (Age of Humans) 7 pm., Senior Center.

Tue., May 14—Micromounts, 7 pm., Senior Center. Dave Olsen, 719.495.8720

**Thu., May 16—General Assembly, “History & Geology of Last Chance Mine” 7 pm., Senior Center.
Pebble Pups & Juniors. 5:30 to 6:15 p.m. Steven Veatch, 719.748.5010**

Thu., May 23—Crystal Group, 7 pm., Senior Center. Kevin Witte, 719 638-7919

Faceting Group, 7 pm., Senior Center. Paul Berry, 719.578.5466

May, Jewelry Group, By appointment. Call, Bill Arnson, 719.337.8070 15610 Alta Plaza Cir., Peyton

June 2013

Sat., Jun 1—Lapidary, 10-2 pm., Sharon Holte 217.5683.

Tue., Jun 4—Fossil Group, TBD 7 p.m., Senior Center.

Thu., Jun 6—Board Meeting, 7 pm., Senior Center.

Tue., Jun 11—Micromounts, 7 pm., Senior Center. Dave Olsen, 719.495.8720

Thu., Jun 20—General Assembly, Program TBD 7 pm., Senior Center.

Pebble Pups & Juniors. 5:30 to 6:15 p.m. Steven Veatch, 719.748.5010

Thu., Jun 27—Crystal Group, 7 p.m., Senior Center. Kevin Witte, 719 638-7919

Faceting Group, 7 p.m., Senior Center. Paul Berry, 719.578.5466

Jun, Jewelry Group, By appointment. Call, Bill Arnson, 719.337.8070. 15610 Alta Plaza Cir., Peyton

Other Events of Interest to CSMS Members

Sat., May 4, Colorado Mineral Society Mineral Auction, Holy Shepard Lutheran Church at: 920 Kipling Street. Denver. From 11:00 AM to 3:00 pm. Free Admission View and bid on fluorescent minerals in a special ultraviolet powered Fluorescent Room

Sat., May 11, Dinosaur Discovery Day and Boy Scout Day at Dinosaur Ridge, Morrison, CO; 10 a.m. – 2:30 p.m. See <http://www.dinoridge.org/> . “Dinosaur Discovery Days” (free public tour days) continue on the first Saturday of each month, through October.

Sat., May 11, Friends of Mineralogy Colorado Chapter, Silent Auction, 12 noon – 3 p.m., Clements Community Center, 1580 Yarrow St., Lakewood CO.

Mon 13, Canon City Geology Club meeting. Dr. Pete Modreski will speak on "The Day the Mesozoic Died" about the K-T impact/extinction theory. First United Methodist Church Fellowship Hall (on the northwest corner of 9th St and Main) in Canon City, 6:30 pm, Please call 719-275-9781 for more information.

Fri-Sun, May 17-19, So. Jordan (Sandy), UT, RMFMS Convention & Show hosted by the Wasatch Gem Society, Salt Lake County Equestrian Park & Events Center, 2100 W. 11400 South; contact Kim Blanton, 801-604-1265, kimblanton2@aol.com

Sun., May 19, the monthly meeting of the Florissant Scientific Society will be a field trip to visit sites near Cañon City including the Indian Springs trace fossil site, the dinosaur quarries and oil spring site near Garden Park, “and if time permits a drive up Skyline Drive”. For information contact Beth Simmons, cloverknoll@comcast.net .

June 1-4, 19th Annual Tate Summer Conference and 68th Annual Wyoming Geological Association Field Conference, **Cretaceous Conference: Evolution & Revolution;** Paleontology ~ Geology ~ Engineering. Casper College : Casper, Wyoming see <http://www.caspercollege.edu/tate/conference/> for more information.

June 7-9, Pikes Peak Gem and Mineral Show and Rock Fair, sponsored by Colorado Springs Mineralogical Society and held at the Western Museum of Mining and Industry. Theme: “Meteorites and the 40th Anniversary of the Canon City Meteor”.

June 22-23, 1st Annual Victor, Colorado Gem and Mineral Show, “in historic downtown Victor”.

July 18-21, Looking at Plants of the Past: A Tour Through Geological Time, 9AM-9PM, A Seminar on Petrified Wood, CSM Museum Conference Room, All day field trip on Sunday. For more info contact, Beth Simmons cloverknoll@comcast.com, 303-986-9693.

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.us

ROAD TRIP: TUCSON 2013

Mike Nelson csrockguy@yahoo.com

I suppose that most rockhounds have compiled a personal bucket list of places to visit or quarries to explore. I certainly have and as these goals are reached check marks are made and perhaps now destinations added. I always wanted to stand on the summit of Mt. Elbert in Colorado—check, to canoe the Boundary Waters in Minnesota—check, to collect at the Bingham Mine in New Mexico—waiting on that one. Another check mark was entered about 6 years ago for attending the Tucson Gem and Mineral Show. Actually I liked this latter event so much I return year after year and recently was able to attend the 59th Annual Show. But the great “thing” about the Tucson show (vernacular for all the venues) is that the main event at the Convention Center (the “official” Tucson Gem and Mineral Show) is not the only game in town. Scattered across the city are something like 40 other venues, most housed in a particular motel, including individual rooms or, in some “really big” tents. For my few days in the city I was just unable to attend all/many of these events. In fact, it is probably impossible to thoroughly see all of the booths. So, I concentrated on just a few secondary venues and then twice attended the main show. I know that several other CSMS members were here in the city looking and buying; however, I was unable to spot them.



Fig. 1. Perusing the items at the Kino Show.



Fig. 2. Get your genuine beads here.

This year the weather was quite cooperative for the main event in the Convention Center with nary a cloud in the sky and temps in the 70's. However, early on in February some of the outdoor shows experienced cold weather (well at least cold for Arizona) with frosty mornings and some rain and even snow in the nearby Santa Catalina Mountains.

My favorite outdoor venue is the former Tucson Electric Park (TEP) Mineral and Gem Show now known as the Kino Sports Complex Rock Show. This show, situated south of downtown along I-10, is set up on a series of soccer fields with free parking, free shuttles, and even offers the opportunity for “dry camping” at a nominal cost. I enjoy this show since the vendors are quite friendly (often selling from stands situated next to their RVs), the specimens reasonable in price, and the merchandise eclectic in nature.

Every year I make a point to visit the “Amethyst Tent” where hundreds of the South American cathedrals are displayed for sale in all their lavender glory. This year the prices were really very “cheap” as the dealer may be going out of business. Large cathedrals were priced in the hundreds of dollars as opposed to thousands as seen in past years (and in other tents). In fact, a person that was attending with me purchased four of these “churches” (as the dealer advertised them).

Some of the more funky items at other tents/tables included firearms (this is the “west”), welded figurines of farm animals, perhaps 2500 dop sticks (in one locality), colorful clothing that reminded me of my youth in the 1960's, chairs made of petrified wood, and 10,000 (give or take a few thousand) plastic bead strings. Trilobites were everywhere including several fakes---cast a black bug in resin and plop it on some limestone. Or perhaps carve out a nice looking star fish and give it a paint job. Know and trust your dealer!

On the other hand, some dealers had “lots of” really nice specimens. If you were looking for sliced agate slabs—thousands were available. Runnin Boar Minerals from Woodland Park (the organizers of the 2013 CSMS Show) had dozens of really fine amazonite crystals, and some fibrous malachite that was 75% less expensive than specimens observed at the main show. The group from Mt. Ida, Arkansas, (who will be at our CSMS Show) sold me a nice gemmy piece of scapolite for a few dollars. And, since I am a fan of Utah minerals I could not turn down specimens of Wonder Stone, Picasso Marble, and

ROAD TRIP: TUCSON 2013 continued

Utah Lace Opal.

I have always wanted to collect, what is currently known as Vernon Hills Wonderstone, from its locality in Toole County west and south of Salt Lake City. However, for some reason, I was always too busy doing other things, mostly looking for research fossils. The specimens at that locality are brightly colored cream to yellow to brown (iron oxides) “welded vitric tuff (glassy) of rhyolitic composition”. Secondary circulating ground waters supplied the iron for coloration (Utah Geological Survey: www.geology.utah.gov). The banded nature and swirls of the rock, plus the bright colors, and the fact that it polishes nicely, makes the wonderstone quite collectable.

Picasso Marble is a name given to a “specimen rock” mined near the southern end of the Mineral Mountains west across the valley from Beaver, Utah, and, just north of the old Creole Mine (which had some nice specimens of bismuthinite). The Mineral Mountains are composed of a small batholith (Oligocene-Miocene in age?) surrounded by a thin rim of sedimentary rocks. The original limestone must be late Paleozoic in age, most likely Permian. The area is badly cut by faults and I presume late Cenozoic volcanism cooked the limestone via contact metamorphism and produced the marble. Picasso Marble is distinguished by the presence of numerous black-brown-gray streaks running through a gray marble. Some person thought the marble looked like a cubist painting so hence the name Picasso. At any rate I need to visit the area.

Utah Lace Opal is sort of a misnomer since it is not an opal in the traditional rockhound sense and does not even resemble, in appearance, either precious or common opal. The material is some sort of a siliceous sinter, amorphous silica, deposited around one of the current and/or former hot springs near Milford, Utah. As silica-infused hot thermal waters reached the surface a rock with quite porous texture was deposited—essentially a geyserite similar to material forming the terraces and mounds in some of the Yellowstone areas. The Utah material makes nice looking specimens since iron, copper, magnesium, titanium, aluminum, and antimony often appear as impurities and impart some nice banded color patterns. There are other hot springs deposits in the area that market similar rocks—satin flash opal, bubble opal, candy opal, and bacon opal (some of these names may be trademarked). At any rate, the quarry operators told me they located the deposit and therefore gave it a name.

I also like the Kino Show for some of the “large”, really large, specimens. At one time I had seen a hand sample size specimen of orbicular granite—here was one slab on display measuring several feet in length. This hunk of rock really impressed me. The dark matter of the orbicules is composed of plagioclase and hornblende that evidently nucleated on seed crystals in a fluid magma. A date of 2687 ± 5 Ma (Precambrian: Archean) has been established from exposures at Boogardie, near Mt Magnet, Western Australia (University of western Australia, no



Fig. 3. Large hunk of Utah Lace Opal, a siliceous sinter that formed around a hot spring.



Fig. 4. A nice slab of orbicular granite from western Australia.



Fig. 5. Iron pyrite from Peru; price \$19,000. How do you protect this monster from pyrite disease.

ROAD TRIP: TUCSON 2013 continued

date).

Left over from last year were giant-size hunks of azurite smear (or some blue copper mineral), nice terminated and extra-large quartz crystals, and the largest example of pyrite that I have seen in my life.

As informal as the Kino Show seemed, the opposite was found at the 59th annual Tucson Gem and Mineral Show in the downtown convention center (February 14-17). Many of the ~250 dealers (some men dressed in ties with more formal wear for women) were selling, or at least offering for sale, some beautiful high-end specimens (probably well out of the price range for an “average” rockhound), but it was just nice to “window shop”. I was able to observe two pendants with each priced at \$300k---one a faceted aquamarine of 297 carats and the

other a large faceted ruby; both were spectacular. Perhaps other specimens had a larger price tag but I did not observe such. As many other show attendees have expressed on other chat rooms, it seems that each year the number of high-end specimens increases (with resulting higher prices) while sellers of more reasonably priced specimens decreases. I certainly don't have statistics but it does seem to me that dealers with specimens that I might be able to afford decrease each year. However, I mostly attend this show to observe and admire the many museum-quality minerals displayed around the ballroom.

I always try to attend the Thursday opening at the Convention Center since: I am always excited about seeing the displays and specimens; and to peruse the better priced specimens (read cheaper) that seem within my price range as a frugal collector (I love that termed used by Bob Jones). The variety and uniqueness of specimens is best early in the show and I always assumed “the early bird gets the worm”. As it turns out I was able to obtain, what I believe, are some really nice specimens for my modest collection.

For example, in a previous blog post I wrote about vesuvianite (www.csmgsgeologypost.blogspot.com *Idocrase: Where have You Gone*; 11/18/12); however, the crystal that I described, although nicely formed, is far from gemmy. I now have a small, but clear, gemmy specimen from Canada. I was/am pretty unfamiliar with the mineral scapolite but do have a fairly nice crystal picked up somewhere. In preparing a posting I noticed that in some cases scapolite can be faceted as a gemstone---news to me! Well, now I have a piece of gemmy scapolite. The Tiger Mine in Arizona is fairly famous for producing specimen minerals. My collection now includes some nicely formed, twinned cerussite crystals, and their cost seems minimal. I was happy then to acquire two really nice specimens: mesolite and scolecite; both form long, slender, gemmy crystals. And in a fit of mineral excitement, I returned to the Convention Center on Saturday for another day of observation.

The theme of the show was *Fluorite: A Rainbow of Colors* and the displays certainly brought out those colors. Fluorite (calcium fluoride, CaF_2) is one of the more collectable minerals since it: occurs in a wide variety of sedimentary and igneous rocks; is almost world-wide in occurrence; usually contains trace elements imparting a variety of colors; often is found in well-formed crystals.

The Smithsonian Institution had a great display that actually explained the *Rainbow of Colors*: Purple is probably the



Fig. 6. Colorado fluorite.



Fig. 7. A specimen of fluorite presented to Yale University by Professor James Dwight Dana.



Fig. 8. Faceted gemmy fluorite, 1031 carats, from Cave-in-Rock, Illinois.



Fig. 9. It would only take one piece of natural gold like this specimen to start a good retirement fund!

result of light scattering by calcium colloids in the atomic structure; Green is due to samarium substituting for calcium in the structure; Blue may be the result of yttrium substituting for the calcium, or the color centers releasing both oxygen and hydroxyl; Pink and red require yttrium to combine with oxygen.

One of the best-known fluorite deposits in the United States is the Illinois-Kentucky Fluorspar District where fluorine-rich circulating hot waters reached Mississippian limestones, probably in the Jurassic, and deposited fluorite in fractures and veins, and along bedding planes. The result, other than commercial production, has been the formation and acquisition of some of the finest and largest fluorite crystals known in the U.S. The Rosiclare area had production of vein deposits while Cave-in-Rock was well known for stratiform deposits. In the 1900's Kentucky and Illinois produced most of the fluorite needed in the U.S. for hydrofluoric acid and steel flux. Today the mines, both open pit and underground, are closed and our country imports whatever fluorite is needed. As a student many years ago I traveled to southern Illinois and picked up a couple of magnificent specimens—virtually all the homes in some small mining towns had piles of crystals “for sale”.

The Denver Museum of Nature and Science had a nice display with some examples of fluorite from Colorado. A really showy specimen, multicolored but mostly green, was labeled “Park County” (perhaps Sweet Home Mine?). Some water-clear crystal cubes came from American Tunnel (San Juan, County) but which mine? Maybe Sunnyside (known as American Tunnel) or perhaps the “other American Tunnel”? The specimen from Cripple Creek was a beautiful yellow in color.

From a historical viewpoint the most interesting specimen was one presented by James Dwight Dana to Yale University. Yes, the same Dana who wrote *System of Mineralogy* (1837), *Manual of Mineralogy* (1848), and *Manual of Geology* (1863). The *Manual* is a common college text book, and has been continuously revised and updated for decades with the 23rd edition (*Manual of Mineral Science*), revised by Cornelius Klein and Barbara Dutrow, published in 2007. His *System of Mineralogy* has also been revised, early on by his son the mineralogist Edward Salisbury Dana, but the latest, the 8th edition, by R. V. Gaines and others. Many or most rockhounds have an old copy of “Dana” lying around somewhere! So, to see a specimen actually handled by Dana was exciting.

Although fluorite is a fairly soft mineral (4 on Mohs) I was greatly impressed with displays of numerous faceted stones---gems of several hundred carats.

Although most displays stuck to the fluorite theme there were several other cases exhibiting a variety of specimens including a “gold” display (WOW), a case of brilliant cut gemstones, and the center of attention---the Maharaja of Indore necklace owned by the Smithsonian Institution. This beauty contains 374 diamonds and 15 emeralds. The center emerald is an intense green color, is exceptionally clear, and weighs about 45 carats. I figured that

would make a nice little Valentine's Day present!

So once again the Tucson Show came to an end and visitors returned home to all parts of the world! The annual event is truly a magnificent sight for anyone evenly remotely interested in minerals, rocks, jewels, or fos-



Fig. 10. The Maharaja of Indore necklace—diamonds and emeralds-- owned by the Smithsonian Institution.

ROAD TRIP: TUCSON 2013 continued

sils. And the theme this year certainly was appropriate for the “average” rockhound as virtually every mineral collector has one or more specimens of fluorite in their collection. See you next year.

REFERENCES CITED

University of Western Australia, no date, Achaean Orbicular Granitoids from Boogardie, near Mt Magnet, Western Australia: <http://geology.lafayette.edu/files/2012/02/orbicular.pdf>

The CSMS Pikes Peak Gem & Mineral Show

Bob Landgraf Exhibits Chairman CSMS

This year CSMS is partnering with the Colorado METeorite Society (COMETS) to celebrate the 40th year anniversary of the Canon City Meteorite Impact. We will have both museum exhibits and exhibits from the COMETS that will be Colorado historical and educational in nature. Part of the commitment to the museums is to have attended exhibits to engage the public. I also need to have mineral and fossil exhibits to broaden the show and promote our club although all of these activities meet our charter of promoting education in the earth sciences. I am asking that each exhibitor write at least a paragraph on his exhibit so that some of us engaging the public or providing tours through the museum can say a few words about the club and the nature of each particular exhibit. We would welcome anyone who would care to spend a little time at his or her exhibit talking to visitors but that will be your option. Additional

FOSSIL GROUP UP AND RUNNING—COME JOIN US!!

By Joyce Price

A small group of fossil enthusiasts met at the Senior Center on April 2. A lively discussion of the group's future, especially field trips and programs, was the feature of the evening. We all agreed that we need to have more field trips in addition to programs. Jack Null had some very good ideas for field trips. There are still places in and close to Colorado Springs where good specimens can be found. Jerry Suchans has good ideas for future programs.

We all agreed that “Show and Tell” should be a big part of each meeting. Sharing our finds with others and helping others identify their finds is a great way to learn more about fossils and get acquainted with other CSMS club members.

Come join us on the first Tuesday of each month, 7:00 p.m., at the Senior Center. Bring your fossils to share and your ideas for the group.

Jerry Suchans will present a program entitled “Anthropocene” (Age of Humans) by Dr. Bob Raynolds of the Colorado School of Mines and the Museum of Science and Technology. Dr. Raynolds presented this program to the WIPS (Western Interior Paleontological Society) on April 1.

COME JOIN US ON MAY 7!!

A tribute to Our Long Time Member Evelyn Wolfe

On April 1, 2013, Colorado Springs Mineralogical Society lost one of its long-time members, Evelyn Wolfe. Evelyn and her husband, Clarence, joined the Club in 1962, and immediately became active members of the Society. Evelyn was Treasurer from 1982 to 1986 and was elected secretary in 1977. After that she and Clarence helped on the Pick and Pack, mailing the monthly newsletter. But those of us who knew Evelyn remember her for her outstanding cookies and pies that she shared with us at meetings and bake sales. Due to her health she has not been as active in recent years as she had been in the past century. At our January meeting this year, Evelyn received an award honoring her 50 years of membership and service to the society. Old timers will miss her!

Pebble Pups Corner

NEWS RELEASE CSMS Pebble Pups Win AGAIN

The CSMS Pebble Pups were encouraged to enter the River of Words poetry competition. Jack Shimon, age 7, was a national winner. **Today we learned that we had two winners at the state level:**

1st place is Caden Rothzeid

2nd place is Jack Shimon

Their poems will be published in a literary anthology.

All winners will be honored in a ceremony on Thursday, May 16 from 2:00 to 4:00 p.m. in the Conference Center, Lower Level of the Denver Public Library, 10 W. 14th Avenue Parkway, Denver. A reception will follow.

1st Place students will be asked to read their poem.

One Bad Day at the End of the Cretaceous: The Death of the Dinosaurs

By Victor Gordillio

Junior Member and Earth Science Scholar

Colorado Springs Mineralogical Society

The Earth was ruled by dinosaurs for about 150 million years or so, a very long time. Sixty-five million years ago, they were all gone, setting the stage for the rise of mammals. Rewind the geological clock to 65 million years ago, and dinosaurs are the dominant organisms on the planet. Move forward only 1 million years and the entire group is nonexistent. Almost overnight, the most successful large animals at the time vanished (leaving only fossils and tracks), setting stage for the rise of the mammals.

The sole cause for this monumental change was a single bad day about 65 million years ago. What happened? Scientific evidence suggests that an asteroid, roughly 10 kilometers in diameter, impacted what is now the Yucatan Peninsula of Mexico. Molten material, ejected from the impact, ignited forest fires around the world within hours. Thousands of cubic kilometers of sulfur-rich rocks were vaporized and thrown into the atmosphere, forming a blanket of soot covering the Earth for months. The Earth was in perpetual darkness which destroyed many links in the food chain, especially plant life. The sulfur combined with water vapor sprinkled back to Earth as sulfuric acid. Ten kilograms of this acid drenched every square meter of Earth. More than 70 percent of all species went extinct as a result of this catastrophe, known as the K-T event (Cretaceous-Tertiary Mass Extinction event).

Our first clues to this doomsday event were discovered in a rock outcrop in Italy that has a definite layer found to be heavily enriched with the element iridium, which is very rare in the Earth's crust but abundant in asteroids. This extraterrestrial iridium layer has even been found in Colorado. This "smoking gun" sediment layer also included quartz grains that had been subjected to a powerful shockwave. Subsequent analyses from rocks and ocean sediments of this age throughout the world provide a detailed picture of this asteroid impact and how its sweeping changes to the environment resulted in what scientists call the "Great Dying," and how this impact changed the history of life on Earth. Just recently, a meteorite exploded in the atmosphere over Russia, and an asteroid passed very close to the Earth, giving us pause to think about our planet still being in a "shooting gallery."



These dinosaurs are about to have a very large change in their day. Original artwork by © Kurt Lahmers

AN EARLY START TO THE COLLECTING SEASON

By Frank Rosenberg

April 6, 2013, President, Mark Lemesany and his son Chris, along with Dale Clouse, Jeanette Carol, Phil Spry, and Frank and Ellie Rosenberg got the collecting season off to an early start at our April Fools Claim. Dale got into a pocket of microcline while Phil Spry and I did a lot of digging. Although I was fortunate to find a small but clear smokey quartz crystal (approx 1 in x 3/8 in), I was told my digging efforts benefited Renee Swanson who found a pocket of smokey quartz the next day. We look forward to a great collecting season.



The words for today - "dig deep"



Dale points to the red clay indicating signs of a pocket



Phil is digging



Ellie scouts for crystals



Dale comes up with microcline



Frank's smokey (1 in x 3/8 in)



Dale and Mark resting



Phil taking a break



Dale found some microcline

2013 CSMS Officers

Mark Lemesany, President

Jean Miller, Vice President

Renee Swanson, Secretary

Ann Proctor, Treasurer

Ellie Rosenberg, Editor

Susan Freeman, Membership Secretary

Sharon Holte, Member-at-Large

Frank Rosenberg, Member-at-Large

Roger Pittman, Past President

2013 CSMS Chairpersons

Kim & Bodie Packham, Annual Show Chairperson

Ron Yamiolkoski, Field Trip Director

Ron Yamiolkoski, Science Fair Chairperson

Brenda Hawley, Historian

Frank & Ellie Rosenberg, Librarians

Camera Club Chair is Vacant

Georgia Woodworth, Social Committee Chairperson

Ann Proctor, Store Keeper

Kevin Witte, Crystal Studies Group

Paul Berry, Faceting Group

TBD, Fossil Group

Bill Arnson, Jewelry Group

Sharon Holte, Lapidary Group

Steven Veatch, Juniors & Pebble Pups

Dave Olsen, Micromount Group

Gary del Valle, Webmaster

To contact an officer or chairperson, go to csms.us, click on Board Members, and, if their name is underlined, click on it.

SECRETARY' SPOT

by Renee Swanson

MINUTES OF COLORADO SPRINGS MINERALOGICAL SOCIETY GENERAL MEETING APR 18, 2013

Bought to order by President Mark Lemesany at 7:06 p.m.

The meeting was opened by the Pledge of Allegiance.

March general meeting minutes, as published in the Pick & Pack were passed with one correction on page 10, Olson to Olsen.

Jean Miller introduced our speaker Professor Charles Love. He gave a fantastic presentation on ***Easter Island***. Also introduced was the Earth Science / Wilderness Tours – The Wild Calls. The Wild Calls donated one ticket to CSMS.

A break for goodies was called 8:35 p.m. Thanks to Georgia Woodworth our Social Committee Chair!

Each satellite group gave a short presentation about their specialties.

The new fossil Group is meeting on the first Tuesday of each month except August at the Senior Center at 7:00 p.m.

The Lapidary group will meet the first Saturday of each month except August or if an interesting field trip is going out....!!

Our Web Master was introduced, Gary Del Valle stated that the Field Trips have not been posted; Yam Yamiolkoski is still working on the first six.

The meeting was adjourned at 9:08 p.m.

Respectfully submitted by Sharon Holte, Member-at-Large

Sub-Group Responsibilities for Refreshments for General Assembly Meetings

Feb. Crystal	Mar. Faceting	Apr. Fossil
May Jewelry	June Lapidary	July Micromounts
Aug. Picnic	Sept. Projects	Oct. Board
Nov. TBD	Dec. Christmas Party	

PICK&PACK

Our Staff...

Ellie Rosenberg—Editor
CSMS Members Reporters

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

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

The ability to write well is NOT a requirement. We will fix the grammar while keeping the author's voice, style, and work intact.

Handwrite it, type it, or email it. Format does not matter. All submissions are welcomed. DEADLINE for items to be included is the **21st of the month**

To submit an item, please use the following:

For hardcopy photos or articles, mail to the address below or bring them to the General Assembly 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 and type. All articles not shown with an author are provided by the Editor.

E-Mail to:

csmseditor@hotmail.com

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Classifieds

June 22-23, 2013
FIRST ANNUAL
VICTOR GEM
MINERAL SHOW
Gem & Mineral Vendors
Join Us In
Historic Victor, Colorado
Pre-register by April 1: \$20 per 10x15 space
Register at VictorColorado.com
Register Early for the Best Space!

The Colorado Mineral Society's Mineral Auction **Saturday - May 4, 2013**

Minerals, fossils, faceted stones, lapidary pieces, books, jewelry, and fluorescent minerals. All reasonably priced! Children's auction. Verbal auction at 1:00pm. Great door prizes, and refreshments. Handicap accessible.

To register for your Buyer and Seller letters call Leslie Osgood @ 303-986-4488

Holy Shepard Lutheran Church at:
920 Kipling Street., Denver
From 11:00 AM to 3:00 pm.

ACKLEY'S ROCKS

Cathy / David / Shawna
Owners / CDM Rocks LLC

Services: Lapidary, Silversmithing,
Goldsmithing, and Jewelry Repairs
**3230 Stone Ave. Colorado Springs,
CO 80907 719-633-1153**

ackleysrocks@comcast.net
Hours: 9 to 5, every day but Sunday.

Sangre de Cristo

Gallery & Rockshop

Steve & Peggy Wilman

114 Main Street, Westcliffe, Colorado 81252

(719) 783-9459

gallery@ris.net

CSMS 2013 Pikes Peak Gem & Mineral Show

40th Anniv. Canon City Meteor Event
June 7-9 9- 5 Fri. & Sat., 9-4 Sun.

Western Museum of Mining & Industry
225 North Gate Blvd., I-25 exit 156A
Colorado Springs, CO (Free Parking)

**Special exhibit: Roof section & Meteor
specimen from 1973 Canon City
Meteor Impact**

Operating steam engines, antique mining equipment and working stamp mill. Gem, jewelry, mineral & fossil vendors, free gold panning, rock identification, kids area, silent auction, food vendors, exhibits, USGS booth

Sponsored by
Colorado Springs Mineralogical Society &
Cripple Creek & Victor Gold Mining Co

For more info. see: www.csms.us and
www.wmmi.org

Hurry! Hurry!! Hurry!!

**Have You Picked Up Your
Membership Award Pin(s)?**

If you celebrated a CSMS anniversary
in 2011 or 2012, your year pin award
is available from the
Storekeeper, Ann Proctor

CSMS

T-Shirts, Badges, and Pins

are available for sale.

See Storekeeper, Ann Proctor

2013 Lake George

SHOW

GEM AND MINERAL SHOW

FRIDAY, SATURDAY, & SUNDAY

Dates TBD



By Appt. Only

719-531-7203

Joe & Marylee Swanson Colorado Springs, CO
Krystals@webtv.net



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Joining the Colorado Springs Mineralogical Society (CSMS)

General Assembly meetings are held the **third (3rd) Thursday of each month**, except January & August, (picnic) **beginning at 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 by RVSP, Lapidary Group by RVSP, 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 Assembly meeting or visit our web site: www.csms.us.