



**Colorado Springs
Mineralogical Society**
Founded in 1936

**June 2014
PICK&PACK
Vol 54..... Number 5**

**CSMS General Meeting
Thurs. June 19, 2014 7PM**

**Tonight's Presentation:
"Meteorites Plus"
By Jack Thompson**

Treats provided by the CSMS Board.

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THE PIKES PEAK GEM, MINERAL and JEWELRY SHOW
PRESENTS
EXHIBITS FROM THE COLORADO SNOWMASTODON PROJECT
JUNE 6-8, 2014
FRI.&SAT 9am-5pm-SUN. 9am-4pm
WESTERN MUSEUM of MINING & INDUSTRY
225 North Gate Blvd., 1-25 exit 156A Colo. Spgs, CO

What Did The Mastodon Say?

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WORKING STAMP MILL
GOLD PANNING
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ADULTS \$5.00 CHILDREN FREE

CSMS Calendar

June 2014

Tue., Jun 3—Fossil Group, 7 p.m., Senior Center. Jerry Suchan 303 648-3410

Thu., Jun 5—Board Meeting, 7 p.m., Senior Center.

Sat., Jun 7—Lapidary, By appointment until Sep., Sharon Holte 719 217-5683.

Tue., Jun 10—Micromounts, 7 p.m., Senior Center. Dave Olsen, 719 495-8720

Thu., Jun 19—General Assembly, 7 p.m., Senior Center.

Pebble Pups & Juniors. Meetings resume in Sep, Steven Veatch, 719 748-5010

Thu., Jun 26—Crystal Group, Meetings resume in Sep. Kevin Witte, 719 638-7919

Faceting Group, Meetings resume in Sep. Paul Berry, 719 578-5466

Jun, Jewelry Group, By appointment. Call, Bill Arnson, 719 337-8070. 15610 Alta Plaza Cir., Peyton

July 2014

Tue., Jul 1—Fossil Group, 7 p.m., Senior Center. Jerry Suchan 303 648-3410

Thu., Jul 3—Board Meeting, 7 p.m., Senior Center.

Sat., Jul 5—Lapidary, By appointment until Sep., Sharon Holte 719 217-5683

Tue., Jul 8—Micromounts, 7 p.m., Senior Center. Dave Olsen, 719 495-8720

Thu., Jul 17—General Assembly, 7 p.m., Senior Center.

Pebble Pups & Juniors. Meetings resume in Sep., Steven Veatch, 719 748-5010

Thu., Jul 24—Crystal Group, Meetings resume in Sep, Kevin Witte, 719 638-7919

Faceting Group, Meetings resume in Sep, Paul Berry, 719 578-5466

Jul, Jewelry Group, By appointment. Call, Bill Arnson, 719 337-8070. 15610 Alta Plaza Cir., Peyton

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

Other Events of Interest to CSMS Members

June 6-8, Pikes Peak Gem and Mineral Show (Western Museum of Mining & Industry)

June 21, Florissant Fossil Beds Night Sky Program 8:30-10, **Summer Solstice Storytelling**, The star and constellation stories told by native peoples. In the telescope, see Mars, Saturn, star clusters, nebulae, and other deep-sky treasures of the summer. Meet at the Visitor Center. For info see www.nps.gov/flfo or call at (719) 748 – 3253 ext. 202

June 22, Leadville, CO, 10 - 2, Florissant Scientific Society, at the National Mining Hall of Fame & Museum, presentation by Vince Matthews “**How Laramide Folds and Faults Form**”. Museum tour (\$9) and perhaps collecting feldspar crystals at Chalk Creek?. For info Beth Simmons, cloverknoll@comcast.net.

Aug. 7-10, Contin-Tail Rock Show, Buena Vista Rodeo Grounds

Aug. 14-17, Woodland Park Rock Gem and Jewelry Show, Between Wal-Mart and Burger King on Hwy 24, Rock, Gem, and Jewelry Auction both Fri. & Sat nights.

Aug. 15-17, Lake George Gem and Mineral Show, Lake George, CO

Sep. 5-7, San Juan Mountains Mineral Symposium, Ouray CO; lectures and field trips; sponsored by Friends of Mineralogy, Colorado School of Mines Geology Museum, and the Friends of the CSM Geology Museum. For more info see <http://friendsofmineralogycolorado.org/>, or <https://www.facebook.com/pages/Ouray-Silverton-San-Juan-Mountains-Mineral-Symposium/224883727702374>

Sep. 6-9, Denver Fine Mineral Show, at the Denver Marriott West, 1717 Denver West Boulevard, Golden, Colorado; see <http://www.finemineralshow.com/>

Sep. 6-14, Denver Coliseum Mineral, Fossil, & Gem Show

Sep. 7-14, Colorado Mineral & Fossil Show, Ramada Plaza Hotel (formerly Holiday Inn), Denver

Sep. 10, Colorado School of Mines Geology Museum, Reception & Open House, 6-9 p.m.

Sep. 12-14, Denver Gem and Mineral Show, Denver Mart (formerly the Denver Merchandise Mart); the theme of the 2014 show is “Agate”; see <http://www.denvermineralshow.com/> for more info.

GOLD IN THE HILLS

Mike Nelson csrockguy@yahoo.com

Each February I try and return to Tucson, Arizona, for the gem and mineral show (see past articles) as well as to explore the surrounding countryside. Of course, one of the more interesting geological localities is the Santa Catalina Mountains, the skyline-dominating range of north Tucson and Oro Valley (Fig. 1). There are very few roads heading into the western front and most travel is by foot. However, the north end, and the “backside,” of the range have several trails and roads to explore by using the small community of Oracle as a base. The major road from Oracle heading directly into the interior of the Range is known as the “Control Road” and leads to Mt. Lemmon (9157 feet) and the summit summer housing community of Summerhaven. However, there are many smaller roads weaving in and out of the Range flanks and any traveler should obtain a good Forest Service map and/or topographic map. These maps, besides showing the roads and trails, delineate the parcels of private land that are scattered throughout.



Fig. 1. Map of Santa Catalina Mountains, Tucson in south-western corner. Red road is paved leading to Summerhaven. The Control Road trends south from Oracle. Many trails and paths branch off this road.

The Santa Catalinas have produced metallic ores such as gold, silver and copper; however, the Range has not yielded the huge deposits as at other nearby Arizona localities—for example, the Tiger/Mammoth/St. Anthony mines to the northeast and their deposits of gold, molybdenum, vanadium, lead and zinc and the San Manuel copper deposits to the east.

It is not that gold is absent from the Catalinas for there have been several local “gold rushes” in the area, mostly around Oracle and the “backside” of the Range; however, the yields generally have been low. Mines were first staked and claimed in ~1880 and a geologist told me that perhaps 70-80 (or more) claims were posted close to Oracle. He also informed me that shafts and holes are quite numerous but that many entrances are located on private property. This trip I talked to some of the local residents and it appears that every year “some company” is about to reopen a gold mine, and has plans for a “big operation.” This “reopening” may be happening in the near future but the end product may will be copper.

For several years Oracle Ridge Copper has been in the planning stages to reopen the Oracle Ridge mine located on the backside of the Range west of San Manuel. A February 2014 news release noted that core drilling

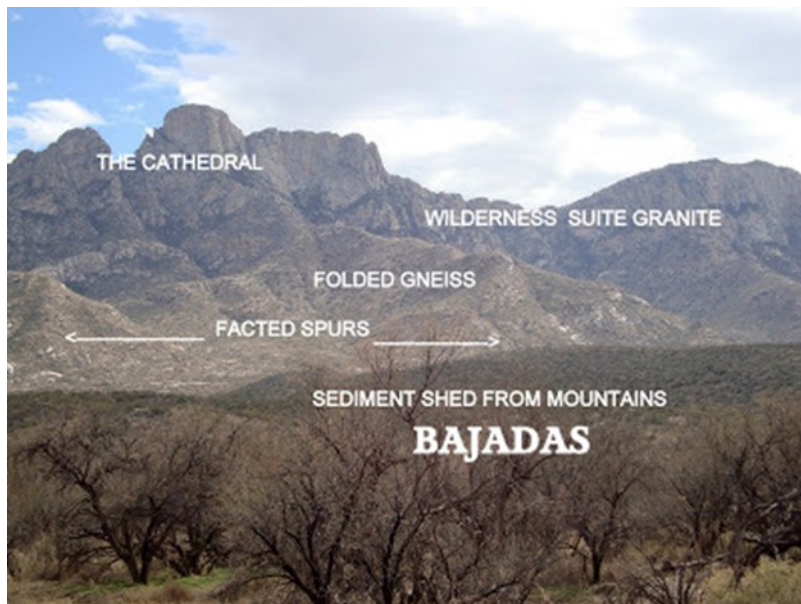


Fig. 2. West flank of Catalina Mountains near Oro Valley. Note the pile of shed sediment—bajadas.



Fig. 3. Inselberg south of Oracle.



Fig. 4. Inselberg south of Oracle.

and evaluation indicated the feasibility of producing substantial amounts of copper with some silver and less gold. The company is progressing toward active mining.

The geology around Oracle is fairly complex—a big hunk of the Oracle Granite of Precambrian age (~1.4 Ga) with Tertiary intrusions and volcanics, much faulting, and evidently some Paleozoic limestones. It is tough to find out much about the geology of the mining area but it seems as though the mineralization is related to faulting and I suppose hydrothermal alteration.

Interesting Cenozoic features along the Catalinas include the bajadas sloping off the range in all directions. They form as alluvial fans that first accumulate sediments at the mouths of canyons, and then with time these fans increase in size and coalesce into bajadas (Fig. 2). The second features to appear in the area are boulder inselbergs, small hills of fractured granite arising from the bajadas (Figs. 3-4). An inselberg is an isolated “hill” and the Oracle inselbergs are in-place rounded boulders of the granite dissected by numerous joints.

So, during my road trip I was driving around on the various minor country roads looking at the rocks and trying to decide if I wanted to explore since it appeared that much of the land was private/claimed. I was also sort of spooked since I did not have on my gators and a couple of days before had seen a quite large rattlesnake. I was hiking down a trail, minding my own business, and had adopted the geology stroll—keeping your eyes on the ground. All of a sudden I stopped in my tracks after hearing a big buzzzzzzzz, a sound that hikers and geologists never forget. There it was, about 8-10 feet down the trail, coiled and unhappy that I had disturbed his nap in the sun. I tossed a couple of small rocks in his direction, said something like “shoo snake”, and waited. Those actions only ticked him off and made him really mad. I wisely decided that discretion is the better part of valor and took a wide detour.

So, at Oracle I was not very excited to go exploring in the rocks that looked like “good snake country.” As a result, I simply started looking at what was on the ground in some of the small washes near the road. And, then something caught my eye, a piece of metal on a small rock. Could it be? Yep, a rock with a smear of gold (Fig. 5). Nothing spectacular and probably only



Fig. 5. Smear of gold. Width 1.9 cm.



Fig. 6. A gold Arizona sunset.

worth a few dollars, but never-the-less it was gold. I could immediately see how the sight of such an object could create "gold fever" in an individual.

In searching references it appears that many, many stories are out there about the gold and other metallic ores near Oracle. Perhaps the most interesting are those associated with William "Buffalo Bill" Cody. In a 1910 article in the Los Angeles Times, *BUFFALO BILL BEGINS MINING IN ARIZONA* Veteran Scout and Showman Takes Up New Life with Old Comrades: *In partnership with his old cronies, John Burgess, scout and prospector, and Colonel L. W. Getchell, mining engineer, Colonel W. F. Cody has started to develop 100 claims in south-eastern Arizona (2000 acres) about 40 miles north of Tucson....The Cody-Getchell-Burges syndicate has turned six claims at Campo Bonito [near Oracle] into a \$600,000 corporation under the style and title of the Campo Bonito Mining and Milling company, and the first development work will be made there.*

The mines at Campo Bonito contain gold, silver and tungsten and surface workings yield about \$30 a ton The ore runs nearly 3 per cent tungsten [mining scheelite], a mineral which has come Into large use In the hardening of steel and in the manufacture of lamps...Colonel Cody carries in his pocket a nugget of pure gold taken from one of the Campo Bonito claims that is worth about \$60, and he shows it with great pride, says a New York exchange.

Mr. Robert Zucker a Tucson native, author, former journalism instructor and newspaper publisher, is the CEO of *Entertainment Magazine* network, publisher of AZentertain.com. Zucker has researched and explored the Santa Catalina Mountains and has written a number of articles on the history of Oracle and the nearby mining districts. See <http://azentertain.com/arizonagoldrush/> for other articles. In addition, a local prospector, William "Flint" Carter, mines "Cody Stone" (gold in quartz) that the lapidary then turns into design jewelry and cabs. Check out: <http://emol.org/irondoor/codystone.html>.

All in all, it was a good day. I am not much of a gold bug so the surface piece was a bonus. It had been a number of years since I had visited Tiger/Mammoth so that was nice; however, a poor ole traveler like me could not get near the actual mine (appears mostly reclaimed). I did not locate the "lost" Iron Door Mine in the Catalinas but did get to observe, rather closely, a splendid Western Diamond Rattlesnake (*Crotalus atrox*). And in the evening the Arizona sunsets (with some dust and pollen in the air) are spectacular, maybe more so than the gold (Fig. 6). Life is good.

COLORADO SPRINGS MINERALOGICAL SOCIETY AWARDS

STUDENT RESEARCH SCHOLARSHIPS

Michael E. Nelson csrockguy@yahoo.com

The Colorado Springs Mineralogical Society (CSMS) was formed in 1936 by a small group of local mineral collectors with a vision to *promote and disseminate knowledge of the earth sciences, especially as they relate to mineralogy, lapidary, and fossils*. Since those early days the Society has grown in membership, sponsors a yearly Pikes Peak Gem and Mineral Show (June 6-8, 2014), holds monthly meetings with programs, publishes a monthly newsletter (*Pick & Pack*) and has an active array of field trips. The Society (WWW.CSMS.US) is a member of the Rocky Mountain Federation of Mineralogical Societies (WWW.RMFMS.ORG) and the American Federation of Mineralogical Societies (WWW.AMFED.ORG).

In 2014 CSMS started a new program, the Student Research Grant Program, to *promote and support original research on Colorado geology by undergraduate students*. The grant program does not seek to cover all of the researcher's expenses but instead is viewed as a **professional endorsement** of an original research project. Proposals are judged on the feasibility and scientific merit of the project as it relates to the advancement of the science of geology and its related branches within the State of Colorado. At the conclusion of the project each student researcher will submit a manuscript for publication in the *Pick & Pack*.

The Society is pleased to announce the 2014 CSMS Student Researchers:

Nora Dwyer is a rising 4th year student from New Castle, Colorado, enrolled at Fort Lewis College in Durango, Colorado. Under the supervision of Dr. David Gonzales, Nora's project is entitled **Age and composition of the Chicago basin Stock, Needle Mountains, Southwestern Colorado (\$800)**: *Chicago Basin is nestled between three of Colorado's 14ers in the Needle Mountain Range of the San Juan Mountains, Southwestern Colorado. The rocks in this area are dominated by ~1430 Ma Eolus Granite which is intruded by a small stock of younger granite. Cunningham et al., (1994) used fission-track methods on zircon to obtain a Miocene age of ~10 Ma. In this investigation, I will sample the Chicago Basin Stock and attempt an U/Pb age determination on zircons using the HR MC LA-ICP-MS at University of Arizona. This method is capable of producing a more accurate and precise age constraint. Cunningham (et al., 1994) suggested that the Chicago Basin Stock might be one of the youngest intrusions in the region. Recent studies (Gonzales, 2013) establish that Miocene plutons in the area more widespread than thought, and these rocks are important for understand the Late Cenozoic magmatic record in the region.*

Nicholas Salter, also a rising 4th year student at Fort Lewis College from Durango, will work on **the Silver-bearing inclusions in argentiferous galena and tetrahedrite: Highland Mary Mine, San Juan County, Colorado (\$250)**: *Research on the galena (lead sulfide) and tetrahedrite (copper iron antimony sulfide) will be conducted with the use of reflected light microscopy of polished sections, and an electron microprobe (EMP) to analyze chemical characteristics. Polished sections will be created from hand-samples collected at the Highland Mary Mine. Inclusions will then be studied with an EMP to determine chemical compositions of blebs or inclusions. Nicholas will be mentored by Dr. David Gonzales.*

Nick Warren, a rising 3rd year student at the University of Colorado, Boulder from Highlands Ranch, Colorado, has a project entitled **The impact of the decline in predator population on microbialites of the Permian-Triassic Lykins Fm, Colorado (\$500)**: *Along Colorado's Front Range, and spectacularly exposed at the Heil Ranch locality in central Boulder County, are outcrops of the upper Permian/lower Triassic Lykins Formation; these near-shore sedimentary facies – or paleo-sabkhas – preserve abundant and diverse examples of stromatolite morphotypes. Stromatolites are microbially-induced sedimentary structures (a.k.a. "microbialites") that are frequently (but not exclusively!) implicated with the fossilized remains of cyanobacterial colonies at the sediment-water interface. What makes the Lykins stromatolites so interesting is their relative youthfulness. The main focus of my research will be to better understand this re-appearance of stromatolites in the geologic record, in light of the P-Tr catastrophe, and to quantitatively compare the various spatial characteristics of the Lykins Fm stromatolites to their ancient (Precambrian) relatives. Dr. Stephen Mojzsis will direct the project.*

The Colorado Springs Mineralogical Society wishes to congratulate all awardees as they represent the future of our human society. In future years interested students should consult the CSMS web site for details.

PEBBLE PUPS CORNER



This vintage postcard shows a *Smilodon* sneaking up on a prey animal that is stuck in the tars of the La Brea Tar Pits in Los Angeles, CA. This postcard is part of the Pebble Pup postcard collection. There is no copyright.

Poet's bio: Zachary Sepulveda recently moved to the Pikes Peak region from San Diego, CA. He became interested in paleontology by visiting the La Brea Tar Pits in Los Angeles as often as he could. He is a junior member of the Colorado Springs Mineralogical Society and is part of the Pikes Peak Pebble Pups and Earth Science Scholars Program.

Caution Thrown Away

The promise of life
In this oozing,
black morass
Is naught but a lie
A sickly sweet seduction

That I can never escape
The primeval cold
Eating at my weary bones
Never goes away
That deadly warm temptation

It beckons ever stronger
A victim-less crime
To eat what's already dead
Lying at my feet
Just a little jump across

That roiling promise of death
Is it worth it now?
The trial in search of warmth?
Of a full stomach?
Is what I gain worth the risk

Of a slow, fiery demise?
Caution thrown away
The fateful leap is taken
At first, there is warmth
And mountains of food to eat

Just like I had wished
But my footing slips
It's all to soon, all at once
All I had is gone
Never to be seen again

By the bright eyes of my kin
Eons pass me by
As my charred remains are raised
Slowly to the sun I shall be cherished by man
And my spirit lives in him

Note: the poet is experimenting with Tanka, a classical Japanese poetic form that consists of 5 lines generally following the pattern on these numbers of syllables: 5-7-5-7-7. Zach has expanded the traditional Tanka to 7 stanzas.



Earth Science Haiku Poems

By Luke Nielsen



The clumps of crystal
That are in a pegmatite
Waiting to be found



Gold in the river
So you may want to catch it
Patience always pays

Poet bio: Luke Nielsen is 9 years old. He is in third grade his favorite subject is science. Luke enjoys rock hounding and his favorite mineral is amazonite. He also enjoys reading and creating new inventions.

CSMS Pebble Pup/ Earth Science Scholar Field Trip Report

By Roger Pittman

Three families met about nine miles south of Taos, New Mexico on the last Saturday of April to explore the metamorphic area just east of Pilar, N.M. We left the highway and traveled about two miles into the mountains where we explored the area known as the Hondo Canyon District of Taos County, the minerals of interest are Staurolite and Almandine Garnet. Within minutes of our arrival everyone in the group began to pick up staurolites and mica schist covered in tiny garnets. Linda found a large matrix specimen covered with hundreds of nice staurolites that she convinced Don to carry several hundred feet to their car. After several hours we moved a short distance to an area covered with altered silvery mica schist dotted with books of black biotite mica. Several yard specimens were gathered. By mid afternoon the clouds threatened to make our return trip wet and slippery so we headed back to the asphalt jungles of civilization our collecting bags bulging.



Field Trips

Thu., June 19, Smoky Hawk Amazonite Claim, Meet at the Lake George Ranger Station, 8:45 A.M., Contact Mark Lemesany, 719-649-2652, mlemesany@yahoo.com

Sat. June 21 Calumet Mine, Meet Safeway parking lot at 3rd Street and G Street in SALIDA, 9 A.M., Contact Don Bray, Don_Bray@copper.net

Sun., June 22 Sedalia Copper Mine, Meet Safeway parking lot at 3rd Street and G Street in SALIDA, 9 A.M., Contact Don Bray, Don_Bray@copper.net

Thu., July 10, Smoky Hawk Amazonite Claim, Meet at the Lake George Ranger Station. 8:45 A.M. Contact Mark Lemesany, 719-649-2652, mlemesany@yahoo.com

Sat., August 2, Leadville Area Collecting, Orthoclase Twins & Beta Quartz Crystals (FMC HOSTED) Meet at the parking lot at the top of Fremont Pass on the south side. Contact Tally O'Donnell (FMC) 720-409-6982

See <http://www.csms-web.org/drupal/calendar-node-field-event/month> for complete detail

2014 CSMS Officers

Mark Lemesany, President

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TBD, Science Fair Chair

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Camera Club Chair is Vacant

Georgia Woodworth, Social Committee Chair

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Gary del Valle, Webmaster

SECRETARY'S SPOT Renee Swanson

MINUTES OF COLORADO SPRINGS MINERALOGICAL SOCIETY GENERAL MEETING MAY 15, 2014

Called to order: 7:00 p.m. Followed by Pledge of Allegiance
Program for evening: Ice Age Death Trap.

New members and guests were introduced.

The break for refreshments was well appreciated by all!!

Mike Nelson announced the scholarship recipients:

1. Nicholas R. Slater of Durango, CO 81301; Research Project: *Silver-bearing inclusions in argentiferous galena and tetrahedrite: Highland Mary Mine, San Juan Country, Colorado*
2. Nick Warren of Highlands Ranch, Co 80130-3730; The impact of the decline in predator population on microbialites of the Permo-Triassic Lykins Formation, Colorado a
3. Nora J. Dwyer of New Castle, CO 81647; *Age and composition of the Chicago Basin Stock, Needle Mountains, Southwest Colorado*

Frank Rosenberg announced that the library has a copy of *Thirty Five Years of Field Collecting And Still Counting!* By Ray Berry of Colorado Springs, CO

Approved the April 2014 minutes as printed in the Pick and Pack. Satellite Groups reported. Nothing new for this month or next month.

Kim Packham discussed the 2014 CSMS Gem and Mineral Show. Mark your calendars for the first week-end in June. She and the volunteers could use much help starting Thursday morning when the vendor booths area will be marked off. The vendors will start arriving by 11:00 a.m. The show runs June 6 and 7 – from 9 a.m. To 5 p.m. And June 8 – from 9 a.m. To 4 p.m. At 4:00 p.m. On Sunday, the show is broken down and packed up for another year. The more volunteers, the easier for everyone. Please volunteer!

Adjourned at 8:45 p.m.

Respectfully Submitted

Sharon Holte for Renee Swanson

Sub-Group Responsibilities for Refreshments for General Assembly Meetings

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

THE PIKES PEAK ANNUAL GEM, MINERAL AND JEWELRY SHOW

JUNE 6-8, 2014

FRI.&SAT. 9:00am-5:00pm - SUN. 9:00am-4:00pm

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The Mastodon
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PICK&PACK

Our Staff...

Ellie Rosenberg—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

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 2012 or 2013, your year pin award

See Storekeeper,
Ann Proctor

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5th Annual

Woodland Park Rock, Gem and Jewelry Show

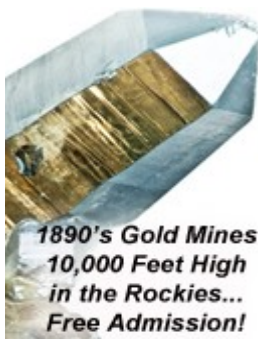


Thursday - Sunday
August 14th - 17th, 2014
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CSMS is an incorporated nonprofit organization with these goals:

To promote and disseminate knowledge of the earth sciences, especially as they relate to mineralogy, lapidary, and fossils.

To encourage study, collection, and fashioning of minerals.

To accomplish the same through social meetings, lectures, programs, displays, shows, and field trips.

The Pick & Pack is published 10 times each year to assist and promote the above.

Joining the Colorado Springs Mineralogical Society (CSMS)

Meetings are held the **third (3rd) Thursday of each month**, except January & August, 7:00 p.m. at 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.

CSMS is a Member of: the following:

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

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