

PICK&PACK

THE BULLETIN OF THE COLORADO SPRINGS MINERALOGICAL SOCIETY Published Since 1960

SPECIAL EDITION
JANUARY 2009
PICK&PACK

Volume 49 Number 1

ACROSS THE DIVIDE: COLLECTING NEAR GRAND JUNCTION

BY MIKE NELSON, CSMS

One of the great "things" about living in Colorado Springs is that the intrepid explorer and rock collector has at his/her disposal a wide variety of collecting sites within a few hours drive. I spend most of my summer tramping around the Mosquito, Sangre de Cristo, Ten Mile, and Front ranges. At times, however, I get the urge to visit red rock country in the western part of the state and head toward a camping site at Colorado National Monument (CNM). This really fantastic park is located southwest of Grand Junction and, although close to I-70, seems off the beaten pass for most travelers—rarely is the campground full and sites are usually available (except for a major holiday or two and the Fruita Bike Race weekend).

CNM is part of the very large physiographic province termed the Colorado Plateau (CP), a 130k sq. mile area centered on the Four Corners region of Colorado, Utah, Arizona, and New Mexico (Fig. 1). The CP is set apart by "stability" as it has remained relatively free of major plate-edge tectonic stress since the Precambrian; however, it is surrounded by tectonic mountain ranges on each side. Rocks of the CP are characterized by flat-lying strata well-exposed in deep river canyons, for example, the Grand Canyon of the Colorado, and in high mesas, such as the Uncompahgre Plateau.

At CNM red- to orange-colored rocks deposited in the Mesozoic are exposed in a high mesa dissected by several small tributaries of the Colorado River. The northern edge of the mesa, the exposures seen by travelers on I-70, are bent in a large monocline and disrupted by a fault (Fig. 2). The southern edge of the CNM grades into Glade Park and then up in elevation to Pinon Mesa, a long time collecting area for agate, jasper, and petrified wood. The Glade Park area, reached via local roads from Fruita or Grand Junction, is a site for the collection of opalized wood according to Pearl (1972); however, in 2007 and 2008 I ran into off-limits private land



Fig. 2. The north facing escarpment at Colorado National Monument. The upper "red rocks" are of Triassic and Jurassic age. The lower "gray rocks" are Precambrian in age and are exposed along the Redlands Fault. Photo courtesy of the U. S. Geological Survey.

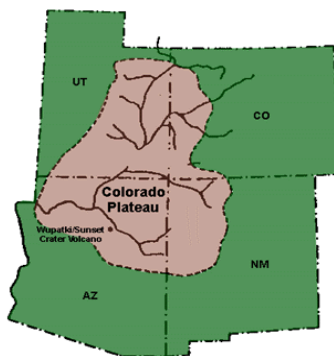


Fig. 1. Outline map of the Four Corners region showing the Colorado Plateau. Sketch courtesy of Wikipedia.

and was unable to find such wood on public lands. Further south on Pinon Mesa a number of streams drain toward the Colorado River and walking the stream beds on small public lands produced red jasper, blackish petrified wood, and a

See "Four Corners" on pg 4

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 monthly to assist and promote the above.

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**Our Staff...**

Betty Cain	Editor
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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 Saturday after the General Assembly every 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.

All articles not shown with an author are provided by the Editor.

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The PICK&PACK is published at least ten (10) times per year; 350-375 copies mailed per month (no issues in January or August).

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PRESIDENT-ELECT'S CORNER BY RON YAMOLKOSKI, CSMS



I know I'm jumping the gun, but those of us elected to be your 2009 officers are truly excited about the coming year. We have great plans for CSMS, and we hope that each of you will find time to participate in as many as you can.

I plan to continue on as Field Trip Chair and will be contacting our Field Trip Leaders in January so that we can start developing a list of fun outings. Like last year, we will be trying to do something for everyone. We had around 25 outings last year, and my goal is to increase that number to at least 30 or 35. Look for the first list in the February Pick&Pack.

Our first big event of 2009 is our Annual Banquet. Besides the installation of new officers, and some special awards, we will be passing out longevity pins. Speaking of which, Max Fillmore and his wife will be joining us. Max Fillmore has been a member of CSMS for 50 years!

We've moved the calendar around a bit to save the club some money. We could not afford to do our Annual Show at the Phil Long Center in June. Fortunately, we were able to cut a deal with the Phil Long Center for the first weekend in December. This means that we will be able to have the same high quality show we have had in the past. It also means that we had to move the date of our Silent Auction that funds our satellite groups activities. So that it does not conflict with the "digging season", we moved it to Saturday, March 7th. Those of you that did not get a chance to attend the Silent Auction in December get another chance at some great bargains.

I know many of you love to go out and collect. Vice President-Elect and Chair of the Fossil Group, Mike Nelson, has come up with a competition to spice up your efforts. **Look for the rules elsewhere in this issue.** Mike also has some great plans for other activities with the Fossil Group.

I know many of you, like me, like to attend outdoor shows in the summertime. Well, the Board is in discussion with the Western Museum of Mining & Industry to jointly sponsor a summer "Rock Fair" at the Museum. The plan is to create a summer event for the whole family. Look for more details in future issues of the Pick&Pack.

Speaking of the Pick&Pack, Betty Cain, our Super-Managing Editor, is always looking for articles. We, and that includes a large group of individual members, won a bunch of awards last year. I know Betty has made some refinements to the layout of our newsletter, but she needs those articles, stories, and pictures to fill out the pages.

Lastly, as we go through the year, there will be many opportunities to volunteer. It might be to help at the Silent Auction, to judge at the Science Fair, to help at our "Rock Fair", to lead a Field Trip, or help out with one of our Groups. I can truly tell you that by volunteering you will get more out of your club, and CSMS will continue to be the fine organization that it is.

Thank you for your support.

NEXT GENERAL ASSEMBLY PROGRAM

The February 19th program will be **"Why are there so many 'pretty' copper minerals?"**, by Bob Carnein, CSMS and Lake George Club member.

Mineralogists recognize some 440 copper minerals—more than 10 percent of all accepted mineral species. Except for bornite and chalcopyrite, the major ores of copper tend to be a bit drab (e.g. chalcocite, enargite, tetrahedrite/tennantite). However, many secondary copper minerals exhibit vivid colors (think of turquoise, malachite, azurite, and diopside). More than a few mineral enthusiasts got their start after seeing and coveting such eye candy at a major museum or show.

AFMS NEWS

BY SHIRLEY LEESON, AFMS PAST PRES

I'm delighted to share some exciting news with all of you. The AFMS Officers and Directors have selected *Rock & Gem Magazine* as the official magazine of the American Federation!

Rock & Gem is published by Miller Magazines, and our own International Relations Chair, Bob Jones, is its Senior Editor. He and his "boss", Lynne Varon, Managing Editor of the magazine, have been actively promoting the AFMS and several of its activities for the past year and plan to continue doing so in years to come.

Rock & Gem is the last of the true "rockhound" magazines now that *Lapidary Journal* has been morphed into *Jewelry Arts/Lapidary Journal*. *Mineralogical Record* and *Rocks & Minerals*, of course, continue as outstanding publications, but their focus is on minerals, not on rockhounds. Each issue of *R&G* contains articles on field trips, minerals, projects, and a series of kids activities.

The November issue includes an editorial by Lynne Varon entitled, "Find Your Voice" touting the AFMS Conservation & Legislation program plus information about our efforts to get the U.S. Postal Service to produce a series of commemorative stamps featuring birthstones and an early plug for the AFMS 2009 Convention in Billings, MT by Bob Jones.

If you're not already a subscriber, and thus a supporter of the magazine, you can easily get information by visiting their website <www.rockngem.com> or by calling them at 760-291-1549.

Not yet had the opportunity of meeting our International Relations Chair Bob Jones? He's always at the club show in Tucson each February, the Denver Show each September, the Springfield show each August in W. Springfield, MA, and many, many local club shows. He's also scheduled to be the speaker at the EFMLS Wildacres Workshop in 2010.

Our association with *Rock & Gem* can truly be a symbiotic relationship—we subscribe, and the magazine supports the efforts of the American Federation and our local clubs.

UPCOMING SHOWS

Jan 16-17

NW CO Gem & Mineral Show, Steamboat Springs, CO, 970-629-3492, nwcogemshow09@hotmail.com

Jan 31-Feb 14

AZ Mineral & Fossil Show, Tucson, AZ, mzexpo@aol.com

Feb 12-15

Tucson Gem & Mineral Show, Convention Center, tgms@tgms.org

Feb 27-Mar 1

Denver Gem & Mineral Guild, JeffCo Fairgrounds

Mar 20-22

Albuquerque 40th Annual Gem & Mineral Show, Fairgrounds, Paul Hlava 505-255-5478

Apr 24-26

Denver Spring Mineral & Fossil show, mzexpo@aol.com

May 1-3

17th annual McPherson, KS Gem & Mineral Club Rock Sale & Swap, 4-H Fairgrounds, Jim Nutter 620-241-2433

May 16-17

Cheyenne, WY American Legion Post 6, Donna Durako 307-634-4229, bluebarite1@bresnan.net

Upcoming Events

Sep 26—Jan 4

Dinosaurs, Ancient Fossils-New Discoveries, Denver Museum of Nature & Science, <<http://dmns.org/dinosaurs/>>

Mar 7

CSMS 2009 Silent Auction

May 20-25

Inter-regional Rockhound Rendezvous hosted by NFMS & CFMS; contact Richard Pankey, AFMS, dickpankey@juno.com

Jul 12

Kemmerer, WY field trip open to all rockhounds; \$60/pp. Hosted by White Mountain Gem & Mineral Club in Show Low, AZ; Eunice McQuiston, 928-536-7209

WMMI HAPPENINGS

January 3, 2009, Keep What You Find Gold Panning Saturday! Fun for the whole family. During this special day, Museum visitors will discover how to gold pan and they keep all the gold they find! Take an adventure to the Mining Museum, and learn about the geology of gold. Afterward, everyone gets his or her "hands wet" by experiencing the gold panning process. Best of all, each visitor will receive a bag of ore containing real (18 screen) gold nuggets, and if you're good – you can keep what you find (and crystals too). EUREKA! Customary admissions apply, but no reservations are required. Gold panning kits will be available for purchase to take home and try on your own!

Family Exploration Day: January 10, 2009, from 10:00 a.m. to 3:00 p.m., It's all about power! Simple Machines, Electricity and Giant Steam Engines! Motor on down to the Museum to explore the principles of physics like work, friction and inertia through hands on experiments with levers, pulleys, wheels and axels. Then witness how these simple machines are put to work in the giant, operating steam engines of the Industrial Revolution! In addition, Museum visitors will explore the basics of electricity by safely building circuits, learning about early Electric Revolution inventors, and finally becoming part of an imaginary 'Human Electric Generator'! Museum Staff and Volunteers will be available all day at as this special event to help our visitors with hands on discovery. Feel free to come anytime during the day, but allow at least an hour for exploration and experimentation! Family Exploration Days introduce families to the myriad of educational resources available at WMMI (all programs meet State education standards), and provide another reason for families to become Museum Members! Customary Museum admissions apply to this program and reservations are requested. ***Remember, Free admission for visitors with CSMS membership cards!***



number of banded agates. However, I was not overly excited about any of the specimens. The siliceous nodules appear to have weathered out of the Jurassic Morrison Formation.

When arriving CNM from Fruita on CO 340, Opal Hill is located immediately to the west after crossing the Colorado River—take Kingsview Road for approximately one mile. Pearl (1972) noted that local citizens had collected several hundred pounds of common white opal, a hydrous silicon dioxide ($\text{SiO}_2 \cdot n\text{H}_2\text{O}$). Precious opal, with its iridescent display of colors, is a valuable gemstone. Common opal, mostly white in color, found at Opal Hill is just short of a somewhat interesting specimen mineral but lacking good color. It appears that the surface specimens are all collected and taking the advice of Voynick (2002), I dug into the Morrison Formation mudstones without a tremendous amount of success.

Southeast of Grand Junction on U. S. 50 is the small hamlet of Whitewater where the traveler begins to observe exposures of the Late Cretaceous Mancos Shale, especially in small bluffs on the north side of the road. Approximately three miles further on U. S. 50 are some open gates and cattle guards with trails leading to the bluffs. Weathering out of the Mancos are numerous broken concretions displaying mostly broken calcite crystals. Some make reasonable specimens but better concretions are available in the Book Cliffs north of Grand Junction.

The Book Cliffs are one of the most recognized landforms in western Colorado (Fig. 3). For about 200 miles the escarpment extends from where the Colorado River descends south through De Beque to Price Canyon near Price, Utah. The lower slope exposes marine shales of the Mancos Formation while interfingering sand-

stone beds of the upper Mancos and overlying Mount Garfield Formation (generally referred to as the Mesa Verde Group or Formation) were deposited in fluvial (stream), swamp, and near-shore marine environments. These sandstone units capping the cliffs are fractured with vertical joints that reminded some long forgotten person of a row of books. In the area of economic geology, the Book Cliffs contain important reserves of coal. Sitting on top of the sandstones, but usually back from the edge, are various early Tertiary rock units, for example, the Green River Formation and De Beque Formation.

I followed the directions of a local rock shop employee and just drove north from Grand Junction on gravel/dirt roads toward the cliffs until finally the trails simply stopped, and I was on public lands. Examining the slopes of the cliffs proved quite fruitful as I



Fig. 4. Specimen of *Baculites* weathering from shattered concretion.

collected ~25 specimens of *Baculites* sp. (Fig. 4). Most were steinkerns, or internal molds, but some individuals displayed quite nice suture lines. Most specimens seemed to be weathering from badly broken, rusty colored concretions. These concretions also produced calcite and barite crystals, the subject of my original journey to the cliffs (Fig. 5).

One of the more scenic drives near Grand Junction begins west of the city on CO 139 at I-70 exit 15. The highway heads north to Rangely, CO and at about the midpoint of the drive (33.5 miles) reaches the summit of Douglas Pass at an elevation of ~9000 feet. Travelers will be able to interpret the local stratigraphy on the drive---from the gray lowlands of the Mancos Shale to the overlying interfingering sandstones and shales of the Mancos and "Mesa Verde" to small outcrops of the reddish colored early Tertiary Wasatch Formation (freshwater sandstone and mudstone) to the cliff forming Tertiary Eocene Green River Formation. Picture in your mind the deposition of the Mancos Shale in the marine waters of the great Cretaceous Western Interior Seaway (WIS) (see Pick&Pack v. 48. #4). As the WIS receded the shoreline fluctuated back and forth and the sandstones of the "Mesa Verde" were deposited followed by stream and flood plain sediments of the Wasatch which begin to interfinger with the lake deposits of the Green River Formation.



Fig. 5. Barite crystal from a Book Cliffs concretion. Photo courtesy of Richard Geiger.

A rather famous collecting site in the Green River Formation (GRF) occurs near the summit of Douglas Pass and is known as the Radar Station locality (yes, there is a FAA radar station). The Parachute Creek Member of the GRF has produced thousands of specimens of fossil leaves and insects that are housed in museum collections the world over, not to mention untold numbers of private collections. In addition, several vertebrate fossils, including fish, crocodiles, birds, bats, and lizards are known from permitted collections (remember it is unlawful to collect vertebrate fossils on federal land without a permit).

The following road log (Dayvault and Goodknight, 1987) will be of interest to the collector:



Fig. 3. Book Cliffs near Grand Junction. Photo courtesy of the American Geological Institute and Michael Collier.

- 0.0 Highway maintenance shed at summit of Douglas Pass on east side of road. Turn east up gravel road with switchbacks.
- 0.1 Cut on right shows algal beds above shoreline sandstones in Douglas Creek Member (DCM) of GRF
- 0.7 Algal beds with ostracods in cut of DCM.
- 1.7 Sawmill Canyon to north. Cut in DCM.
- 2.5 Road junction, keep left. Entering Parachute Creek Member (PCM).
- 2.8 Mahogany oil shale bed in cut on hill.
- 4.1 Mahogany bed two feet thick exposed in cut.
- 4.6 Road junction, keep left.
- 5.0 FAA radar dome. Do not enter fenced area. Park on side.

The collecting at the site will require broad chisels and a sturdy hammer as the fairly hard shale must be split. Be certain to wrap all fossils in appropriate packing such as newsprint.

There certainly are other sites around Grand Junction that demand exploration such as the localities in Unaweep Canyon. However, descriptions of those sites will be reserved for another time.

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CSMS OPPORTUNITIES

BY MIKE NELSON, CSMS

At the November 2008 CSMS meeting, Steve Veatch gave another inspiring presentation to the general membership. The thesis of Steve's presentation was that members of a society, in this case the Lake George Club, could define a project, complete research, and produce an outstanding product. For those of you who missed the talk, the Lake George Club worked on the natural, physical, and human history of the Guffy area. A large number of club members participated in the project as many different skills were needed for completion; the end products being a written report, visual presentations, and a refereed abstract in a scientific journal. After his presentation, several CSMS members commented something like, "we could do that sort of a project", and "when can we start doing something".

Yam and I are relatively new to the CSMS, about two years, and I am new to the Colorado Springs area and still learning much. What both of us do know is that the membership of the Society is quite knowledgeable about a variety of things concerning rocks, minerals, fossils, geology, techniques, etc. In addition, members seem more than willing to share information, lead field trips, and work extremely hard on projects (witness our annual show and silent auction).

I have often believed that the Society could become more involved in the presentation of information to our community--what better way to give back to our friends and neighbors. And, what better way to make our image in the community even more outstanding. However, taking on additional "work" also comes with additional responsibilities that must be shared by the membership--large numbers of members. But, I am convinced members

would enjoy these additional responsibilities and could learn much from their colleagues and from the research.

So, what I am proposing is that CSMS take on one or more new projects. In other words, I am looking for volunteers (**you**) in area(s) where members (**you**) want to gain additional knowledge, where members (**you**) have skills, or where members (**you**) just plain want to get involved. I am also looking for particular projects that members (**you**) believe would be of interest. These projects could be structured similar to our interest groups and could proceed as the group sees fit. The Board certainly is willing to provide some sort of oversight; however, these projects generally would be member-driven.

I have thought of several possible projects that might be of interest to members and could be roughly categorized as "research", "learning", "community give-back", or "of interest to the membership". Perhaps some projects could fit in more than one category. So, here are some ideas:

- A history of major mineral collecting sites in Colorado. This could include photos (old and new), geological history, oral history, written history, etc.
- A history of a particular old and defunct mining area in Colorado. See the list above.
- A history of "New Deal" structures in Colorado---Roosevelt era CCC, WPA projects involving the construction of native stone bridges, buildings, etc.
- A pictorial and written guide to identifying the "local fossils".
- A pictorial and written guide to identifying Colorado minerals.
- A pictorial and Written guide to coal mining in the Colorado Springs area.
- A trail guide to the Ute Valley Open Space (and/or other localities).
- A guide to downtown building stones (walking tour).
- A 2010 calendar with photos of mineral/fossil specimens provided by our members (and we could sell the calendars at our Show!)
- Construction of "lesson plans" for use in schools, complete with specimens.

And the list could go on and on. Before embarking on any project I would like to gauge the interest of the membership in participating with your

See next page

colleagues, solicit other areas of project interest, and solicit leadership. There would be room for all levels of experience. So, what do you think? Too much work? Would be interested? Don't have enough time? Would take a leadership role? Please contact Yam Yamiolkoski at Ron.Yamiolkoski@aecom.com and/or me at csrockguy@yahoo.com), see us at the next meeting, or give me a call, (719) 522-1608.

THANK YOU, CSMS MEMBERS!!

BY LINDA LAVERTY, CSMS

This was a great Silent Auction, and I hope you all had as much fun as I did. Thank you for all the superb donations and volunteering your time to make this soooo successful.

And, a special *thanks* to those of you who helped out bid each other. We are very pleased you chose to spend your extra cash at our Silent Auction.



Photos by Ilona Vogt and Pete Modreski

ASK A GEOLOGIST

BY MIKE NELSON, CSMS

Jake writes: *My dad told me that next spring we would go and collect rubies down south. My mother was excited. Are these really rubies? Will I find a big one?*



An interesting question Jake. I presume that by "down south" your father was talking about Ruby Mountain southeast of Buena Vista. Although Ruby Mountain (Fig. 1) is a wonderful mineral locality, and you will have a great time collecting, you will not be able to locate gem rubies that will excite your mother.



Fig. 1. Ruby Mountain, Chafee County, as seen from the BLM Ruby Mountain Campground. Photo by author.

The gemstone known as ruby is actually a variety of corundum, a mineral known as the "second hardest" after diamond. On the Mohs Scale of Hardness, diamond is a 10 while corundum ranks as 9. It is so hard that abrasive corundum, or pulverized corundum, is known as emery—the source, at least originally, of the emery board used in the cosmetic industry as a "fingernail file".

Sapphire is also a variety of corundum and generally is thought of as being a blue gem stone (with color imparted by minor amounts of iron and titanium); however, any colored variety (including colorless) of corundum, except red, is actually a sapphire. In fact, ruby could be thought of as red sapphire. At any rate, ruby is a red variety of corundum ranging in color from bright "ruby red" to a dark reddish-brown. Nice rubies are transparent and may be the most valuable gem stones on the market, even worth more money than diamonds. The most valuable gem rubies are from Burma (now known as Myanmar) but most commercial rubies are from Thailand. Many rubies on the market are also heat treated to improve clarity and color. In addition, many commercial rubies, of lesser price, are synthetic and are "man-made", a process known since 1902. I have had jewelers show me both "real" rubies and synthetic "rubies" and certainly my skill is not great enough to readily distinguish between the two varieties unless a gem microscope is available—virtually all natural rubies have inclusions of the mineral rutile but heat-treated and synthetic stones lack the inclusions.

Rubies are an aluminum oxide, Al_2O_3 , the red color coming from minor amounts of chromium. Red spinel ($MgAl_2O_4$) was, in the past, commonly mistaken for ruby. In fact, the Imperial State Crown of Great Britain, made in 1937 for King George VI, contains the Black Prince's Ruby. Actually this "ruby" is a red spinel.

OK, so what about the Colorado gemstones? The "Colorado rubies" at Ruby Mountain are actually a variety of aluminum garnet called spessartine with a chemical composition of $Mn_3Al_2(SiO_4)_3$. These stones occur in a Tertiary rhyolite exposed as a series of intrusive dikes at Ruby Mountain and adjacent Sugarloaf Mountain and Dorothy Hill. Rhyolite is a light-colored, silica rich, vol-

canic rock that is, mineralogically speaking, the equivalent of granite (they have about the same mineral composition). However, the rapid cooling of rhyolite did not allow for large ground-mass crystals to form—you need to examine the rocks with a loup in order to see the crystals. Rhyolite also has the tendency to form vugs and cavities, essentially hollow spaces, in rapidly cooling lava. The garnet crystals at Ruby Mountain formed in such cavities from “late stages vapors...enriched in fluorine, sodium, and potassium” (Modreski and Murphy, 2002).

Topaz crystals and obsidian nodules (Apache Tears) also occur at Ruby Mountain with the tears being exceedingly common and the topaz rare. The topaz is often found in association with the garnets in vugs or cavities while the Apache Tears are found in a perlite near the north end. Perlite is a light (low specific gravity) rock formed when the rhyolite magma was frothy and full of gas bubbles and cavities. An abandoned perlite mine may be observed along the BLM hiking trail at Ruby Mountain.

This locality has been prospected since at least the 1880’s, perhaps even earlier, for the U. S. Geological Survey in 1911 noted that Cross in 1886 described the general geology of the region and observed the crystals are small and average about 2.5 mm. In addition, he stated most collectors offer a “few blasts” to loosen the rock. Sometimes I wonder what collecting today would be like if I was able to offer a “few blasts” to shake things up!

The crystal garnets (Fig. 2) are best located by “banging” a crack hammer on the very tough rhyolite (with appropriate personal protection). It is my understanding that the best garnet localities are located on the west side of the mountain, land that is private and now off-limits to collectors. I found garnet crystals in rhyolite near the top of the mountain but have been unable to collect topaz (in two trips). The Apache Tears, eroded from the perlite, are located virtually “everywhere on the surface” near the north end of the mountain. Most are tiny, about the size of a wooden match head.



Fig. 2. Spessartine garnets from Ruby Mountain. Photo courtesy of Stone Haven Mineral Shop, Greg Holland.

One of the more interesting aspects of Ruby Mountain is the chance to see the intrusive rock (rhyolite) contact with the Precambrian granite (Fig. 3). The rhyolite has been isotopically dated as 30.1 million years (McIntosh and Chapin, 2004) while the Precambrian granite is approximately 1700 million years (Tweto, 1979).

To locate Ruby Mountain travel south from Buena Vista on U. S. 285 to Chaffee County Road (CCR) 301 (about a mile and a half north of Nathrop) and turn east for one- half mile. At the inter-



Fig. 3. The contact between the massive bedded Precambrian granite (left) in contact with the Tertiary intrusive rhyolite dike (right).

section with CCR 300 turn right toward Ruby Mountain Campground and travel about two and one- half miles. At the Campground (located along the Arkansas River) take the left fork of the road up a small valley to a dead end parking lot. Ruby Mountain is to the south.

Ruby Mountain, the public sector, is now part of the Bureau of Land Management (BLM) Brown’s Canyon Wilderness Study Area and as such, there are rules. However, rockhounding with hand tools is allowed.

So Jake, I hope you find a nice red garnet for your mother. Take the multisided crystal to a jeweler and get it set in a nice pendant. Or, if that fails, buy her a singing mockingbird: *He’s going to buy me a mockingbird, and if that mockingbird won’t sing, he’s going to buy me a ruby ring* (with apologies to Carly Simon).

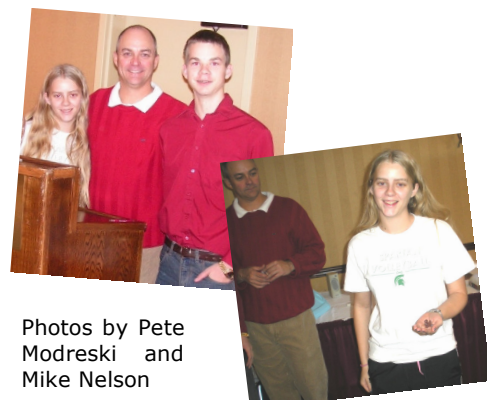
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REMINDER . . .

The map interpretation class sign-up deadline is **1 February 09** with the first class starting at 5:15p on **19 February**. Sessions continue in March and April with the final session being held on a Saturday in April or May. Class size is limited, but there are a couple of spots open.

Contact Mike Nelson at csrockguy@yahoo.com to register.



Photos by Pete Modreski and Mike Nelson

MEET THE 2009 BOARD

CONT'D FROM DECEMBER PICKNPACK

PRESIDENT:

Ron "Yam" Yamiolkoski was born in Norwalk, CT and lived there until he was about twelve years old when he and his mother and father moved to a small farm near Middleburgh, NY. Yam remembers the rocks in Middleburgh very well, because it was one of his jobs to remove them from the garden. Graduating from Middleburgh Central School, he went to SUNY Oneonta where he secured a BS degree in Education with a minor in Mathematics. Although he worked all four summers while attending college at Automatic Signal (makers of traffic control equipment), he started his formal career as a teacher first in Sidney Center, NY and then in Yonkers, NY. Like any teacher, he had to continue to work during the summer to make ends meet. It was a summer job as an office engineer that led to a career in the engineering and consulting business. At the end of the summer, his employer offered him the opportunity to stay on. He eventually became assistant resident engineer on the 130 acre White Plains Urban Renewal Project. During this time, he continued his education at City College of New York where he continued to take classes in science, mathematics, and pre-engineering. One thing led to another as he continued to work for the firm, opening two offices and becoming involved in the marketing of engineering services. Over the last 40 years, Yam has worked for two major professional consulting firms, serving as a marketing person, project manager, business manager, regional controller, regional manager, and business unit manager for architecture, engineering and software development. More recently he has worked with the corporate staff on Federal regulation compliance, acquisitions, and reorganization efforts. Yam is married to Jean, his wife Jean of 41 years, and they have three sons (Allen, Michael, and Steven). He also has two grandchildren (Krysia – Michael's daughter and Jack – Allen's son). Yam joined CSMS in January of 2007 and served as Vice President and Field Trip Chairman in 2008. Yam enjoys rockhounding, fishing, the outdoors, gardening, cooking, reading, and playing games.

TREASURER:

Ann Proctor lives at the base of Pikes Peak in Chipita Park with her husband. They relocated to Colorado Springs in 1986 from Maryland where Ann was a Certified Property Manager. She has a Colorado Real Estate License and specializes in Property Management along with residential sales.

Ann got into CSMS by way of the gemstone faceting class taught by Dave Wilson. Being in property management, she has a lot of experience in the accounting field keeping and balancing books. Other classes and hobbies include beading, jewelry making, and knitting. She is also the President of the Pikes Peak Landlords and Investors Group.

MEMBER-AT-LARGE:

Charles (Chuck) Webb is from Illinois. A retired US Army MSGT whose military career extends from WWII occupation (Germany) past Viet Nam. He was a Logistician and, at the end, a member of the Inspector General's team. Schools include the University of Illinois, University of Maryland, and even El Paso Community College. Chuck also wore a badge for several years after retiring from the Army before final retirement. Chuck has collected rocks/mineral specimens from Germany, Australia, and Korea, as well as various states in the US.

MEMBER-AT-LARGE:

Laura Canini was born near Chicago and attended University of Illinois, University of Barcelona, Spain, and Monterey Institute of

International Studies, California, graduating with a M.A. degree in Spanish Translation. She then enlisted in the Army Reserves as an interrogator and attended the Defense Language Institute to study Russian. During a summer reserve training, Laura met her husband, Danny Canini, and became the proud mother of Laurisa (senior at Lewis Palmer H.S.) and Julian (7th grader at Eagle-view). Laura has worked as a bilingual pregnancy counselor, adoption caseworker, and preschool teacher. She is currently employed by One World Translation Spanish medical interpreter, and has been a volunteer interpreter with the Colorado Springs Police Department's Espanol Service Program for eight years. While in college in Illinois, Laura took a geology course that sparked her interest in fossils. When she and her family moved to Colorado in 1997, she began to spend more time looking for fossils, and for her birthday in 2007, her husband found CSMS on the Internet, signed up, and bought her some tools! Her free time is spent rockhounding and hiking with her family and dogs, doing volunteer work, reading, and attending her daughter's track and field competitions around the country. Laura never leaves the house without her boots and backpack, because she might see a spot that needs exploring. Her motto is "so many rocks and trails, so little time."

PAST PRESIDENT:

Rick Copeland is a Colorado native born in Denver. He has had a few different careers through the years. He started out in heavy construction, but an accident where he drove off a mountain road 300 feet down the mountain and ended up under his pickup truck ended that career. So after a brief rehabilitation and a few surgeries, Rick started a career as a carpenter which lasted until he fell three stories in a construction accident. That ended his construction career and between numerous spinal surgeries, he went to college for computer science which became a more permanent career and is his present job as a systems programmer for Verizon.

Rick seemed to always be interested in rocks and acquired his first rock tumbler when he was 12 years old. With a ready supply of polished stones, he decided to make jewelry

out of them. After seeing the limitations of what could be done with epoxy, ready-made settings, and drilled stones, he decided to take a silversmith class in 1974 through Jefferson County adult education. Turquoise and Native America jewelry was in it's heyday, and he made a nice little side income for a couple years. Then the turquoise fad wained, and he noodled around for years occasionally selling at craft shows and making gifts for friends. Around 2000 Rick decided to start making jewelry again and realized that the only way he could find stones in the quality and style he wanted was to cut and polish them himself. He slowly began to collect used lapidary equipment. His silversmithing skills have evolved over the years with little formal training. Rick is fortunate to have a network of fellow silversmiths, bench jewelers, and jewelry store owners that have mentored and guided his career as a silversmith in return for lapidary services. He does 10-20 shows a year with an eye for early retirement from the computer field into his jewelry and lapidary business, Rocky Mountain Wonders.

CSMS FIELD SPECIMENS OF 2009

The CSMS Fossil Group is sponsoring a competition for 2009: FIELD SPECIMENS OF THE YEAR. There are several categories for the competition, see below, and few rules:

- The specimen must be collected, by a CSMS member, during the calendar year 2009
- Purchased specimens are not eligible
- Specimens from "pay-to-dig" sites are eligible (if not purchased)
- Specimens will be turned into judges in mid-October (details later)
- Awards will be presented in November, 2009
- The winning specimens will be exhibited at our "Annual Show"
- Specimens should be correctly identified and clearly labeled

Categories:

CSMS PEBBLE PUPS/JUNIORS

- Fossil
- Rock or mineral collected in Colorado
- Rock or mineral not collected in Colorado

ADULT CSMS MEMBERS

- Fossil
- Rock or mineral collected in Colorado
- Rock or mineral not collected in Colorado

Questions? Contact Mike at csrockguy@yahoo.com or catch him at a meeting.

CSMS PHOTO CONTEST BY MIKE NELSON, CSMS

The CSMS Fossil Group is sponsoring a **photo contest** for Society members, including Juniors and Pebble Pups. The rules are simple—submit your digital photo (JPG file) of: 1) any fossil (s) - invertebrate, vertebrate, plant, protest: or 2) any rock formation that has the appearance of an animal or fossil.

Send the photo file, one per email, and not later than **1 March 09**, to csrockguy@yahoo.com. Include information in the email about the fossil such as identification (as best as possible), where it was collected or exhibited (such as a museum), submitter, and a signed (electronic) copy of the release form below. Include information on the "animal rock formation" such as location and name of the "animal".

Individuals may submit up to five photos (in individual emails). Photo judging (blind) by members of the Fossil Group will take place in March with the winners announced at the March CSMS General Assembly meeting. Prizes will be awarded, and one need not be present to win.

RELEASE FORM

I, _____ (name), give my permission for the Colorado Springs Mineralogical Society to use the attached photograph, _____ (title), in their educational activities and displays, including the CSMS annual show and the Society's web site. I also understand that I retain intellectual ownership of the photograph.

In order to jump-start the photo contest, a "preliminary contest" is being held. The rules: 1) identify the locality of the rock formation in the photo below. It is located within a 25 mile radius of Colorado Springs city center; 2) give the rock formation a name; and 3) submit the information to csrockguy@yahoo.co no later than **13 February 09**. The winner will be announced at the February CSMS General Assembly meeting. A prize will be awarded; need not be present to win.

In addition, the Fossil Group will construct an educational display for the CSMS annual show. Remember, any fossil, or fossil grouping, or rock formation, is eligible, although artificial enhancements by a photo software is discouraged. Be creative, have fun, convert those old slides to digital, and get those photos submitted. Questions? Email Mike or catch him at a meeting.



RMFMS PRESIDENT'S MESSAGE

BY STAN NOWAK



Hope everyone has made it well through the holidays. It is time to start the new year on the run.

I want to thank Yonis Lone Eagle for his work with the Farmington, Durango, and Grand Junction clubs, and Debbie Leschner with the Prescott club for near future convention sites. By the time you read this, I hope to have had emergency meetings with the Executive Committee and the House of Delegates (phone or email) on the selection of the site for the 2009 convention as well as sites for the next five years to be voted on at that convention. Be sure to have your list of officers and contacts updated with the federation so they can be properly contacted.

At the House of Delegates meeting at Tulsa, I hesitantly stated, with the reluctant approval of our new Credentials Committee, that we had a quorum when in fact we did not. The committee did not receive complete training prior to the convention. Errors were discovered when the Credentials Committee reviewed the Articles of Incorporation and the By-Laws prior to turning over the delegates' paperwork to the Historian. Some, but not all, proxy forms were properly signed by local clubs prior to the House of Delegates meeting as were required by the By-Laws and Ops. At the meeting, I was not completely sure of the legality of all of the proxies. I have now confirmed that there was no quorum.

Since we have By-Laws and Ops that were confirmed and approved by previous House of Delegates, we need to abide by them. State Directors and individuals who are members of multiple clubs cannot assume that they have the delegate representation of other clubs without having proper proxy paperwork prior to the convention. Otherwise, all State Directors and/or individuals of multiple clubs could assume representation of all their respective clubs (6 for some individuals) and basically negate the purpose of the House of Delegates.

Yes, there were some excellent items presented, but these can be taken care of as required. Bottom line is that no business was legally conducted, and no officers were elected. This means that it is imperative, if you want the RMFMS to continue to function, that all clubs must participate to the fullest of their capability to include, but not limited to, sending delegates or proxies to the RMFMS Convention to voice your club's wishes, ideas, opinions, requests for assistance, etc.

To the Federation and fellow clubs:

This is not just a federation of officers and committees, but a federation of individual clubs working together as a whole to promote and protect the rights of rockhounding and education in the earth sciences.

I want to congratulate the Federation—we have increased our membership by about 600 new members. Some clubs have increased more than others, such as Colorado Springs, but everyone keep up the good work.



Photos by Ilona & Pete

ANNUAL SILENT AUCTION

BY MIKE NELSON, CSMS

The Colorado Springs Mineralogical Society held its annual fall silent auction on Saturday the 6th of December at the Embassy Suites in north Colorado Springs. Although the final financial figures have not been reported, by all accounts the auction was again a resounding success. CSMS members were extremely generous with both their donations and their wallet. However, there were some outstanding bargains snapped up by the bidders.

The two high ticket items were gaveled in at \$85 for several preformed faceted gem garnets and \$50 for a cast skull of *Hoplophoenus*. Bill Battin perhaps got the steal of the show with a \$21 bid on a cast claw of the giant allosaur, *Saurophananax*. All proceeds from the auction will be divided between the CSMS Fossil Group, and the Board as it pursues an additional mineral claim.



In addition to the auction, Bill and Betty Cain monitored the "bake sale" with goodies again provided by members. Tens of thousands of calories were present on the sale table. The club left it to Bill Cain, as chief sampler, to guide members in their purchases.

Two long-time members of CSMS, John White and Joe Swanson, were also present with displays of their wares to sell.

As with all events such as the auction, the CSMS owes a great deal of thanks to our volunteers: to the members for donating and buying, to Drew for securing the auction room and for supplying the world with slabs, to Bill and Betty for guarding (and selling) the food, to Chuck for collecting the money, to Jim for using the gavel, and to Illona and Linda for



Photos by Mike Nelson

<i>Sunday</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
JANUARY 2009 — CSMS CALENDAR						
				1 A HAPPY NEW YEAR	2	3 12n Lapidary Group
4	8	9	7	8 7p Board Meeting	9 7:30p Crystal Group	10 
11	12	13 7p Micromount Group	14	15 6p Annual Awards Banquet & Officer Installation	16	17 12n Jewelry Group
18	19 	20 7p Fossil Group	21	22 7p Faceting Group	23	24
25	26	27 7:30p Camera Group	28	29	30	31

"Most of the trouble in the world is caused by people wanting to be important." - T.S. Elliot

REFRESHMENTS FOR GENERAL ASSEMBLY MEETINGS

Jan—**Banquet**
Apr—Crystal
Jul—Jewelry
Oct—Micro

Feb—Board
May—Faceting
August—**Picnic**
Nov—Projects

Mar—Camera
June—Fossil
Sep—Lapidary
December—**All**

*Have a Happy &
Prosperous 2009*

719 A.C.

PRESIDENT	Rick Copeland	332-7915	rick@rockymountainwonders.com
VICE PRESIDENT	Ron Yamiolkoski	488-5526	theyams@q.com
SECRETARY	John Casto	329-0912	jcasto@fvs.edu
TREASURER	Ann Proctor	684-9010	annmgmt@msn.com
MANAGING EDITOR	Betty Cain	634-8205	bettycain3@comcast.net
MEMBER-AT-LARGE	Mike Nelson	522-1608	csrockguy@yahoo.com
MEMBER-AT-LARGE	Charles Webb	392-7214	
PAST PRESIDENT	Drew Malin	531-7594	advanceone@comcast.net
MEMBERSHIP DIRECTOR	Bill Cain	634-8205	billcain4@comcast.net
FIELD TRIP DIRECTOR	Ron Yamiolkoski	488-5526	theyams@q.com
SHOW CHAIRPERSON	Drew Malin	531-7594	advanceone@comcast.net
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CAMERA CLUB	Roger Pittman	683-2603	rpittman@netzero.com
CRYSTAL STUDY	Kerry Burroughs	634-4576	kburrou@comcast.net
FACETING GROUP	Dave Wilson	635-7891	dlwilson@pcisys.net
FOSSIL GROUP	Mike Nelson	522-1608	csrockguy@yahoo.com
JEWELRY GROUP	Bill Arnson	749-2328	ritaarnson@msn.com
LAPIDARY GROUP	Rick Copeland	322-6915	Rick@rockymountainwonders.com
MICROMOUNT GROUP	Phil McCollum		acc@friei.com
PEBBLE PUPS	Steven Veatch	748-5010	Steven.Veatch@gmail.com
WEBMASTER	Allen Tyson	268-0775	allentyson@yahoo.com

Locations

Board Meeting: 1st Thursday @ 7:00p. Senior Center, Ron Yamiolkoski, 488-5526

Camera Club: 4th Tuesday @ 7:30p, Senior Center, Roger Pittman: 683-2603

Crystal Study Group: 2nd Friday @ 7:30p, Senior Center; Kerry Burroughs: 634-4576

Faceting Group: 4th Thursday @ 7:00p, Senior Center, Dave Wilson, 635-7891

Fossil Study Group: 3rd Tuesday @ 7:00p every other month, Senior Center, Mike Nelson, 522-1608

Jewelry Group: 3rd Saturday @ 12n, 15610 Alta Plaza Circle, Peyton, Bill Arnson, 749-2328

Lapidary Group: 1st Saturday @ Noon, 6608 Gambol Quail Dr E; Rick Copeland 322-7915

Micromounts Group: 2nd Tuesday @ 7:00p, 1514 North Hancock, Phil McCollum, acc@friei.com, Moyra Lyne, 442-2673

Juniors & Pebble Pups: 3rd Thursday @ 5:15p & 6:30p, Senior Center, Steven Veatch, 748-5010

Homesteaders, Fossils, and Scientists

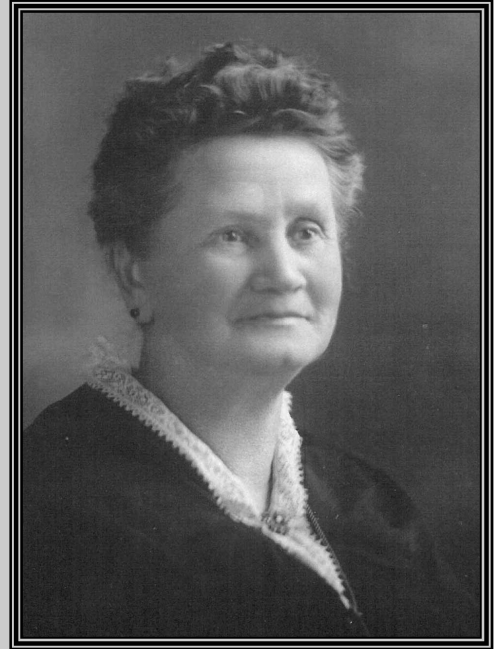
A Tribute to Charlotte Hill on Her 160th Birthday

- **Sponsored by**

- National Park Service
- The Friends of the Florissant Fossil Beds
- Pikes Peak Historical Society
- Florissant Scientific Society

- **Events**

- Welcoming Reception
 - Hors D'oeuvres
 - Superintendent, Florissant Fossil Beds National Monument (Keith Payne)
 - President, Pikes Peak Historical Society (Celinda Kaelin)
 - Representative for the Florissant Scientific Society (Tim Brown)
 - Vice President, The Friends of the Florissant Fossil Beds (Sally Maertens)
- Speakers
 - Herb Meyer
 - *The homesteader who made the difference: Charlotte Hill's role in unveiling Florissant's place in world fame*
 - Steven Veatch
 - *Charlotte Hill and the Princeton Scientific Expedition of 1877*
 - David Atkins
 - *Charlotte Hill and her influence on paleontologist Samuel H. Scudder*
 - Beth Simmons
 - *Passing the heritage to brother John Coplen: The Coplen Petrified Forest*
 - Comments from the Hill Family
- Reception and Celebration
 - Cake and unveiling of new wayside exhibit
- Field Trip to overlook the site of the Hill Homestead



February 15, 2009, 11:30 to 4:00
Florissant Library Reception Hall
Seating is limited so come early!
Doors open at 11:00.



Colorado Springs Mineralogical Society, Post Office Box 2, Colorado Springs, CO 80901

APPLICATION FOR MEMBERSHIP

- All memberships run from January 1 to December 31.
- Any person joining the CSMS as a new member after June 30th shall pay half of the yearly rate. Any person joining as a new member after October 1st receives membership for November and December plus the following year beginning January 1. The partial year membership shall not apply toward the 25 year Lifetime Membership.
- 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.
- Members who have paid their dues for 25 years will be awarded a Lifetime Membership. Lifetime Members receive all of the CSMS benefits and no longer have to pay the annual dues.
- Members in good standing receive the following benefits: 10 issues of the CSMS newsletter, *The Pick&Pack*, 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.

LAST FIRST MIDDLE

SPOUSE

STREET

CITY

STATE ZIP

EMAIL

PHONE CELL

HAVE YOU PREVIOUSLY BEEN A MEMBER OF CSMS ☐ NO ☐ YES ☐ WHEN

YOU ARE PAYING FOR THE YEAR 2009

Each year the Colorado Springs Mineralogical Society publishes a Membership Directory. The directory is distributed **ONLY** to CSMS members.

Your dues **MUST** accompany this application ☐ Check if you do NOT want your name & address included

	All Members Before Jan 31	All Members After Jan 31	New Members	
			After June 30	Oct 1 – Jan 31
<input type="checkbox"/> Junior Membership (12–17 years old)	<input type="checkbox"/> \$ 5.00	<input type="checkbox"/> \$ 5.00	<input type="checkbox"/> \$ 2.50	<input type="checkbox"/> \$ 5.00
<input type="checkbox"/> Regular Membership (18 and over)	<input type="checkbox"/> \$15.00	<input type="checkbox"/> \$20.00	<input type="checkbox"/> \$10.00	<input type="checkbox"/> \$15.00
<input type="checkbox"/> Family Membership (parents & dependents under 18)	<input type="checkbox"/> \$25.00	<input type="checkbox"/> \$30.00	<input type="checkbox"/> \$15.00	<input type="checkbox"/> \$25.00

YOUR INTERESTS Please check ALL that apply

CRYSTALS ☐ FACETING ☐

FOSSILS ☐ SILVERSMITHING ☐

LAPIDARY ☐ PHOTOGRAPHY ☐

JEWELRY ☐ METEORS ☐

MICROMOUNTS ☐ FLUORESCENTS ☐

VOLUNTEER CAPABILITIES Clubs are made up of volunteers!

ARTIST ☐ WRITING ☐ EDITOR ☐

MAILING ☐ LOCAL SHOWS ☐ YOUTH ACTIVITIES ☐

PROGRAMS ☐ FIELD TRIPS ☐ REFRESHMENTS ☐

PUBLICITY ☐ WEB SITE ☐ LIBRARY ☐

Sometimes knowing where our members are employed or retired from helps us when we are looking for special information or guidance in our activities. This information will not be published or accessible except by the CSMS Board of Directors.

List any other things you may be willing to do.

I hereby agree to abide by the Constitution and By-Laws of the Colorado Springs Mineralogical Society.
CSMS Constitution and By-Laws are available at our website: www.csms.us

Signature of Primary Applicant _____

Application Date _____

Mail this form and your payment to:

Colorado Springs Mineralogical Society
PO Box 2
Colorado Springs, CO 80901



Colorado Springs Mineralogical Society
2009 Awards Banquet & Officer Installation Registration
January 15, 2009

Embassy Suites
7290 Commerce Center Drive
Colorado Springs, CO

Cocktails—6 pm Dinner—7 pm Program—8 pm
(Open Bar)

Name(s) _____

Phone: _____

MENU:

Number of Dinners: _____

Tossed Greens with Raspberry Vinaigrette & Ranch Dressing

Number of Vegetarian Dinners: _____

Chicken Breast topped with Teriyaki Sauce

Total Number of Dinners: _____

Served with Rice Pilaf and a Seasonal Vegetable Medley

x \$18 ea

Dinner Rolls & Butter

Total Enclosed: _____

Chef's Choice Dessert

Coffee or Iced Tea

Send check payable to **CSMS** along with this registration by 1/9/09 to:

CSMS
PO Box 2
Colorado Springs, CO 80901

Regular meetings of various groups

Café Scientifique features a talk and discussion on some current science topic; 6-30-8:00 p.m. Tuesday evening once a month (approximately the 3rd Tuesday) at the Wynkoop Brewery (Mercantile Room), corner of 18th & Wynkoop Streets, Denver. No charge; all are welcome. <http://cafescolorado.org>

Colorado Scientific Society, monthly meetings with one or two speakers on an earth science topic, 3rd Thursday, 7:00 p.m. American Mountaineering Center, 710 10th St. (NE corner with Washington), Golden, CO. <http://www.coloscisoc.org>

Denver Mining Club, Informal weekly luncheon meetings with a speaker, every Monday, 11:30-1:00, Country Buffet, 8100 W. Crestline Ave, #A3, Littleton, CO (about 1/2 mile north and east of the intersection of Wadsworth Blvd. & Bowles), tel: 303-933-9923. No charge, but all who attend must purchase a lunch at the restaurant. See web site http://china-resources.net/den_min.html

Denver Region Exploration Geologists' Society (DREGS) meets monthly on the 2nd Monday, 7:00 p.m. Consolidated Mutual Water Company (lower level), 12700 W. 27th Ave., Lakewood, CO; no charge, all are welcome to the meetings. See <http://www.dregs.org/>

Rocky Mountain Assoc. of Geologists (RMAG) has monthly luncheon meetings with a speaker at the Marriott City Center, California St. between 17th & 18th Streets, 11:30 a.m. Luncheon cost is \$24; no reservations are needed for the talk only. See <http://www.rmag.org/>

USGS Colloquium Series, lectures on Thursday, 1:30-2:30 p.m. Foord Lecture Room, Bldg. 20, Denver Federal Center, Lakewood, CO. USGS staff, visitors, and guests are welcome. See <http://geology.cr.usgs.gov/crg/colloquia.htm>

Western Interior Paleontology Society (WIPS), meets 7:00 p.m. first Monday of the month, Sep-May, Ricketson Auditorium, Denver Museum of Nature and Science, <http://www.wipspc.com>

CLASSIFIEDS . . .

NOTICE—Items listed for sale in the Pick&Pack are displayed only as an informational service to our members and advertisers. CSMS and/or the Pick&Pack do not promote nor warranty any item displayed. The sellers and buyers are responsible for the condition and ownership of any item shown.

CSMS T-Shirts, Badges, and Pins are available for sale at each meeting.

Have You Picked Up Your Membership Award Pin?

If you celebrated a CSMS anniversary in 2008, your year pin award is available from the Membership Secretary, Bill Cain.

Dues R Due
Discount ends 1/31/09!

WANTED

Specimen display case for home use
Contact:
debbybeneze@msn.com or
719-429-4004

NEW CSMS "DIAMOND" BACK BADGES

A new supply of the badges used on the back of our vests has been arrived. We can now proceed with vest manufacturing. If you're interested in purchasing a CSMS vest, please contact **Linda Laverty**, perl24@juno.com.

(719) 633-1153

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Denver-Spring Mineral & Fossil Show

April 24 - 26, 2009

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BETTY CAIN, EDITOR



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January 2009



Joining the Colorado Springs Mineralogical Society (CSMS)

General Assembly meetings are held the third (3rd) Thursday of each month, except January & August, beginning at 7:30 p.m. at the Colorado Springs Senior Center, 1514 North Hancock Blvd., 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: Camera Club, Crystal Study Group, Faceting Group, Fossil Group, Jewelry Group, Lapidary Group, Micromounts Group, and Pebble Pups/Juniors. For details on Satellite Group meetings, see page 11.

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—\$20*

Family—\$30*

Juniors—\$5

*Deduct \$5 if paid by 1/31/09

If you are interested in joining CSMS or would like more information, we encourage you to attend our next General Assembly meeting (see page 2 for details of the next meeting) or visit our web site: www.csms.us.