

PICK&PACK

THE BULLETIN OF THE COLORADO SPRINGS MINERALOGICAL SOCIETY Published Since 1960

FEBRUARY 2008

PICK&PACK

Volume 48 Number 1

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 monthly to assist and promote the above.

A Petrified Wood Specimen from the Lost Continent of Pangaea

Steven Wade Veatch
Robert Mowery

About 35 miles outside of St. Johns in northeast Arizona an interesting section of petrified wood was recently found. The specimen was situated with a large number of petrified wood fragments that had weathered out of the Chinle Formation in a ravine rimmed with cedar and piñon trees. The petrified wood specimen was carefully removed and lightly brushed off with a toothbrush which revealed a crystalline interior (figures 1 and 2). The crushing force from overlying sediments or the process of decay left an open space in the sample of petrified wood that allowed a cluster of jewel-like crystals of quartz to form (NPS website, 2007).

The petrified wood specimen is from the Chinle, a thick and expansive rock formation that occurs across Arizona, Nevada, Utah, western New Mexico, and western Colorado. The Chinle Formation was laid down in the Late Triassic; a prehistoric time of floodplains, deltas, and marshes at the western edge of Pangaea—the super continent that existed 300-200 million years ago (Daniels and Dayvault, 2006). Specimens of petrified wood serve as a window to ancient forests and provide a fascinating view of lost worlds.

The Petrified Forest Member of the Chinle Formation is rich in petrified wood and is known for the so-called “rainbow wood” of brilliant colors (NPS website, 2007).

This member contains the Petrified Forest National Park’s petrified logs.



Figure 1. Petrified wood is a fossil of a woody plant preserved by chemical and physical processes. This specimen, found by Robert Mowery, has a center filled with quartz crystals. Robert Mowery specimen. Photo date 2007, © by S. W. Veatch.

(See “Pangaea” on page 4)

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Mineralogical Society

Founded in 1936

Lazard Cahn

Honorary President

**Our Staff...**

Betty Cain	<i>Editor</i>
Bill Cain	<i>Mailer</i>
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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 in the next month's issue is the third (3rd) Friday of every month. To submit an item, please use the following:

Photos:

For hardcopy photos, mail to the address below or bring them to the General Assembly Meeting. All 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:

Mail or email to the addresses below.

Email: bcain2@earthlink.net or Info@csms.us

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PO Box 2
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PRESIDENT'S CORNER



Rick Copeland

We have a new President!! We are pleased to introduce Rick Copeland, 2008 CSMS President.

Rick was elected by the membership at the November General Assembly and was sworn in at the 2008 Annual Banquet on January 17th. As a former member of the Executive Board serving as Secretary (2005 & 2006) and then as Treasurer (2007), Rick is no stranger to providing strong leadership to CSMS. He has been the Jewelry Club leader for many years and brings a wealth of knowledge and experience to CSMS.

We hope you will join us in welcoming Rick and thanking him for volunteering to serve in this very important office. We look forward to hearing from him each month in this column.

Rick accepts the traditional "big shoes to fill" from Past President, Drew Malin, at the officer inauguration on 1/17/08. The shoes belonged to Urban Turzi, 1996 President, and have been passed to each new succeeding president.



FEBRUARY GENERAL ASSEMBLY PROGRAM

Information on the February presentation was not available at *Pick&Pack* press time.

SHOW MEETING—FEB 21ST, 6:30P

The 2nd 2008 Show Meeting will be held prior to the February General Assembly at the Senior Center. We're planning another great show this year, and welcome all volunteers. If you want to participate, please attend the planning meetings to find out where a couple of hours of your time would be most appreciated. Many hands make the work light!

IT'S THAT TIME OF YEAR—DUES R DUE!

If you haven't submitted your 2008 membership renewal by this writing, you've missed the discount period, and the fee is now \$20 for individuals and \$30 for family membership. This is still a great bargain for all the fun and knowledge CSMS provides, not to mention monthly copies of the *Pick&Pack* newsletter and field trips. Another membership benefit is free admission to the Western Museum of Mining & Industry (WMMI).

To ensure you remain on the mailing list and continue the many benefits of CSMS membership, please send in your application right away (see application on page 13) to CSMS, PO Box 2, Colorado Springs 80901. **Bill Cain**, Membership Director, asks that you complete the application so that your information may be correctly entered into the database; this is the source of our newsletter mailings, annual Membership Directory, email notices, and anniversary membership pin awards.

Speaking of the Membership Directory, it will be published in April and contains information on all members' data through 31 March 2008.

EDITOR'S NOTE: We're out in front of Pres. Shirley Leeson's column due to a publication timing issue—her February input will not be published and available to us before the *Pick&Pack* goes to press this month. Therefore, I'll use this space to bring you additional AFMS information and news.

PARTICIPATION IN REGIONAL & NATIONAL CONTESTS—Let's Do It Again!!

AFMS Club Rockhound of the Year. We started the year off with the 2007 ACROY award for **Linda Laverty**. This was the 2nd time in as many years that CSMS was honored with this award (**Drew Malin** being the 2006 honoree). This is great PR for our club and so easy to accomplish—all that's required is a nomination from a club member! So, how about a nomination for 2008 ACROY? AFMS took my lead and will now be awarding an official certificate to the honorees. Please send me an email or note describing one of our many great members explaining why you think they should be our Rockhound of the Year; I'll submit the nomination to RMFMS and then on to AFMS.

Author/Editor Publication Contest. 2007 articles written by our members have been submitted to RMFMS for the annual competition. Winning articles will then go on to the AFMS competition with awards being presented at the annual Federation Show (this year in Humble, TX 9/25-28). The *Pick&Pack* was awarded 1st Place as New Editor last year but is not eligible for that category again (until a new editor is elected ☺); however, I did submit our entries for the Large Bulletin (12 pgs or more) contest. We have some pretty stiff competition at this level, but here's hoping we do well. Keep your articles coming for the *Pick&Pack*—you could help us win!! By the way (BTW), this includes poems.

AFMS Program Competition. It's been a while since CSMS competed in this program. We've had some wonderful programs presented by our members during the last year. It would be great to have them preserved for everyone to enjoy. Details and entry form may be found at the AFMS web site, www.amfed.org. Don't be afraid to ask for assistance with the entry!

All American Club "Yearbook" Award. This would be a natural for anyone who's concerned about passing along the history of our great club. Ray Berry did an outstanding job of capturing the "History of the Colorado Springs Mineralogical Society" from 1936 to 2002. An annual entry doesn't have to be so detailed and could be very informal. Entry forms and info are available at www.amfed.org.

Get involved with the regional and national contests; it benefits all of us!

UPCOMING SHOWS

Feb 5-17

Minerals of the USA, Tucson G&M Show; field trips before & after the show

Feb 22-24

Jewelry Gem & Mineral Show, Denver Gem & Mineral Guild, Jefferson Co Fairgrounds, Golden, CO, 10a-6p. **FREE**

Feb 23-27

QIA Pow Wow, Quartzsite, AZ, contact Diane Abbott (918) 927-6325 or powwow@qiaaz.org

Mar 28-30

Fort Collins Show, contact (970) 493-6168 or showchairman@fortcollinsrockhounds.org

Apr 25-27

55th Annual Wichita Gem & Mineral Society, "Nature's Wonders—Dazzling Gemstones"; Gene Maggard at show @wgmsks.org

May 2-4

McPherson Gem & Mineral Club; contact (620) 241-2433 or (620) 241-7003

May 16-17

35th Annual Rock Swap, sponsored by the Ellinwood, KS Chamber of Commerce; (620) 564-3300

May 21-28

NW, Rocky Mountain, & CA Federations Rockhound Rendezvous in Texas Springs, NV. Details on RMFMS website, www.rmfmns.org

Jun 21-22

CSMS 44th Annual Gem & Mineral Show, Phil Long Expo Center; contact Drew Malin at Advanceone@comcast.net

WMMI HAPPENINGS

Back to the Future: URANIUM

Exhibit Opening February 21, 2008 5:00 p.m.

Guest Speaker **Matt Mathisen** 6:00 p.m.

Concerns over rising oil prices and the health of our environment have lead to a renewal of nuclear power as a clean alternative. One ton of natural uranium can produce more than 40 million kilowatt hours of electricity. This is the equivalent of burning 80,000 barrels of oil. With this in mind, some utilities are getting ready to build nuclear reactors for the first time in three decades which has created a new market for uranium. The price of uranium was approximately \$10 per pound in early 2003 and has since risen to over \$100 per pound. Join the Western Museum of Mining and Industry for an evening opening of *Back to the Future: Uranium*. The exhibit focuses on the history of uranium mining in Colorado by exploring the early prospec-



tor and the boom and bust cycles since 1910. Not only is this a story about Colorado, but it is also a story about Colorado Springs as one of the early pioneers of the household Geiger counters. The exhibit opening will be complemented by guest speaker **Matt Mathisen** who will talk about his early uranium prospecting experiences. The exhibit runs until April 26, 2008. Exhibit Opening is free of charge and will include light appetizers, beverages, and music. Please RSVP by February 14 to (719) 488-0880. Customary admission applies to ongoing dates.

HERITAGE LECTURE SERIES

Guest Speaker **Dr. Jim Burnell**

Thursday, February 28, 2008, 7:00 p.m.

Uranium it's HOT and back by popular demand! To fuel (See "WMMI" on page 4)



Figure 2. Close up view of the crystal core. Robert Mowery specimen. Photo date 2007, © by S. W. Veatch.

The southern portion of the Chinle reaches a maximum thickness of just over 520 meters (1,706 feet). At the Petrified Forest National Park the Chinle is approximately 400 meters (1,300 feet) thick. The formation was named for the Chinle Valley in Apache County, Arizona.

Certain conditions must exist for petrification to occur (table 1). After rapid burial, the wood is transformed by a process called permineralization. Groundwater, enriched in silica, permeates wood and precipitates silica within wood cells (figure 3). Silica, in the form of silicon dioxide (SiO_2), or quartz, is the most common replacement mineral (Teachout, 1995).



Figure 3. The top of the specimen shows the details of the wood preserved by the process of permineralization from minerals (including silica from volcanic ash) in the groundwater. Robert Mowery specimen. Photo date 2007, © by S. W. Veatch.

Specimens of petrified wood are important fossils. Together with other fossils and the surrounding rocks they reveal prehistoric ecosystems and ancient climates. Petrified wood, just as all fossils, is a limited resource that reveals prehistoric worlds. Fossil collectors must have permission from landowners in order to collect fossils from private lands. Since regulations on public lands vary, the collector should contact the land manager before collecting any specimens.

Conditions Required For Petrified Wood

Burial	Rapid burial below the water table.
pH	A pH of 5 or 6 is favorable for polymerization of silicic acid which replaces wood and prevents chemical breakdown of cellulose in the wood.
Silica source	An abundant source is required, generally from a volcanic source (lava flows, tuffs, ash).
Temperature	Plant tissues break down at temperatures greater than 212°F (100°C). Fungal activity stops at temperatures less than 30°F (4°C) and more than 104°F (40°C). Fungal activity causes rotting of wood and prevents detailed petrification.
Sedimentary environment	A basin for deposition is required.
Time	The process is very slow, probably taking millions of years.

Table 1. Modified from Daniels and Dayvault, 2006

References cited:

- Daniels, F.J. and Dayvault, P.D., 2006. *Ancient Forests: A Close Look at Fossil Wood*, Western Publishing Company, Grand Junction. 450 p.
- NPS Website, 2007. *Petrified Wood*. Retrieved December 9, 2007, from Petrified Forest National Park Web site: <http://www.nps.gov/pefo/naturescience/petrified-wood.htm>.
- Teachout, G., 1995. *Petrified Wood of South Dakota*. Retrieved December 9, 2007, Web site: <http://www.northern.edu/natsource/earth/Petrif1.htm>.

NEW ROCK NAME

BY MIKE WHEAT, CSMS

There was an article in Colorado Springs newspaper, The Gazette, just before mid December, announcing the Mars Rover Spirit has found some silica for the first time. During its recent travels, and in spite of a lame, non-working wheel (since early 2006), the rover uncovered a bright spot in the wheel's drag marks. NASA scientists turned the rover around to take another look. They determined the rover had uncovered a brightly colored rock with high levels of silica coating it. The next step was to try and break it apart to see if the silica was all the way through it. Using the rover as a battering ram, the scientists backed it up and took a shot with what has to be the most expensive rock hammer in history. The target rock survived the impact, but the one next to it was cracked open. This neighboring rock turned out to be rich in silica all the way through, and the scientists (tongue in cheek) promptly named it "**Innocent Bystander**."

I don't want to sound like a complainer, but we rockhounds spend all of our hobby lives working hard to list and remember all of the different rock, mineral, gem, and fossil names of the specimens in our collections, not to mention the ones outside our collections. Now, the NASA scientists have gone and given us another name we have to try to remember—"Innocent Bystander!"

I have only one thing to say about this new burden placed upon us: *Lighten up NASA!!*

WMMI—continued from page 3

the discussion around the Mining Museum's Uranium Exhibit, Geologist Jim Burnell, PhD, with the Colorado State Geologic Survey, will speak about the issues revolving around uranium mining in Colorado and the importance of this resource worldwide. Dr. Burnell will highlight the historic, economic, environmental and energy questions posed by current demand for this product. Heritage Lecture Series are free and open to the public, but reservations are requested. Donations are accepted. Reservations are required by February 21, 2008. Call 719-488-0880.

PEBBLE PUPS

By BETTY CAIN

Pebble Pups are growing and learning! In spite of his recent surgery, Steve Veatch, had a great lesson on fossils and dinosaurs. The Pups received a dinosaur necklace from Steve along with a specimen of coprolite (dinosaur dung) and great handouts for their notebooks.



Steve is assisting the Pups on their collections and has a great idea for their display at the June 2008 Show.

February's program will be, "Rocks Under Pressure". Do you know what a metamorphic rock is (like a caterpillar changes to a butterfly)?

We start at 6:30p (new time) and will conclude before the General Assembly starts at 7:30p. Adults are always welcome.

We have a new badge program from the AFMS American Future Rockhounds program and will be discussing the program.

See you there.



EDITOR'S NOTE: Thanks to Mike Wheat's report on the Mars Rover Spirit, I went to the NASA web site at <http://marsprogram.jpl.nasa.gov/rockworld/> and found a plea from NASA scientists to kids around the world to send in rocks from their collections to be analyzed by the Mars Rover software. Here are the details from the web site.

NASA Scientists Need Your Help!

Mars scientists are asking students from around the world to help them understand the red planet. Send in a rock collected by you or your classroom from your region of the world, and we will use a special tool like the one on the rover to tell you what it's made of. Then everyone can compare their rocks to the ones found on Mars.

We'll post a picture of your rock on the web, and give you a report on what kind of rock it is. We'll also send you an official certificate and Mars sticker for your contribution.

Your rock will be kept in a special collection where scientists from around the world can come to study them. It's really important that you send a rock in or on the ground in its natural setting.

Avoid rocks that are decorative or used in landscaping as they could have come from other regions on Earth.

Here's how you can participate:

Minimum to send:

- Rock - minimum 2" maximum 6" (preferred 4" size)
- Name
- Age
- Address (to send certificate and sticker - not released)
- Name of city/village and country (include zip code if US)
- Clean rock - wash with water if dirty (make free of dirt)

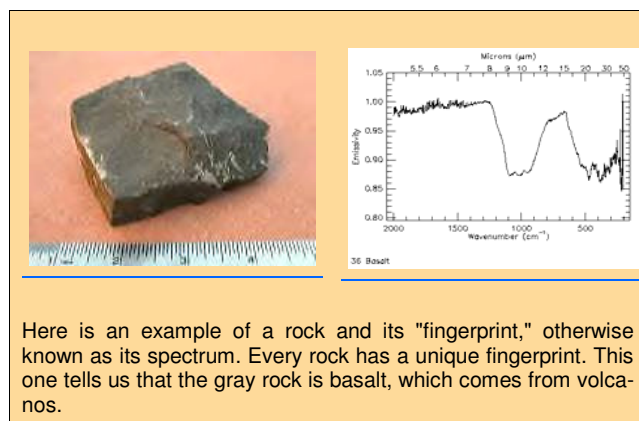
NOTE: Only First Names, Age, and Cities will be listed on the web.

Optional:

- Latitude/longitude of sample site
- Name of geographic feature (if it has one) where rock was collected
- Copy of map with location where rock was collected
- Picture of rock in person's hand for scale
- Picture of location where rock was collected (with no people)
- Short paragraph describing area where rock was collected
- Phone number

Place to Send Your Rock:

Dr. Phil Christensen
Mars Space Flight Facility
Arizona State University
PO Box 876305, Moer Bldg Rm 131
Tempe, AZ 85287-6305



Here is an example of a rock and its "fingerprint," otherwise known as its spectrum. Every rock has a unique fingerprint. This one tells us that the gray rock is basalt, which comes from volcanoes.

FIELD TRIP TO SOCORRO

BY LORRIE HUTCHINSON, CSMS

The weather was perfect, as usual, for the Mineral Symposium in Socorro November 8-11. Members from the Rams Club, North Jeffco, and Colorado Springs Mineralogical Society joined forces for a trip to the Blanchard Mine on Thursday and to the Magdalena Mining District of Friday.

Ray DeMark was our host at the Blanchard, and while some accompanied him into the Sunshine #3 Mine, other dug on top of the ridge. The seam of fluorite found on the ridge was as blue as the sky and prolific enough to keep the differs busy the entire day. Everyone was able to load their car with a pick of specimens in different sizes.



Fluorite

For those underground, there were many spots to find an array of fluorite, galena, and some brochantite. Most of the miners came out with smiles and wrapped treasures.

The Graphic and Nitt dumps yielded specimens of pyrite, cersusite, smithsonite, azurite, malachite, and auricalcite. Other finds were identified by Helen at Bill's Rock shop when we returned after another beautiful and fun day of collecting.

For those preferring to collect their finds at the tailgating, the specimens and prices varied enough to please many shoppers. The larger rooms at the Comfort Inn were pleasant and allowed for the circulation of more people and ample room to display minerals. I found several treasures there as well.

John Rakovan was the featured speaker at the symposium with a great presentation on the sakurashi or cherry blossom stones. **Ray Berry** did a great job presenting the collecting of Ed Over, and **Steve Veatch** presented the new way Cripple Creek is looking at gold deposits. **Ray DeMark** talked about New Mexico Fluorites and had a wonderful display. **Jim McGlasson** gave a very interesting presentation on silver found in Batopilas, Chichuahua, Mexico. Seventy-five to eighty percent of all the silver extracted occurred as native silver. Recent exploration by MAG Silver uncovered a vein in which 2.7 kilograms of native silver specimens were collected.

It was sad to hear that many collecting areas in New Mexico are being closed by the Abandoned Mine Land Program because of economic development and the carelessness of uneducated people who get hurt in mine shafts. To save some of these collecting sites, we should work with colleges, museums, and clubs to prove the value of keeping the
(See "Socorro" on page 8)

RMFMS PRESIDENT'S MESSAGE

BY STAN NOWAK, RMFMS

I want to thank all of you who have put your trust in me to be your new leader of this most essential organization. It is my goal to put the RMFMS as the leading regional federation in education, not only through scholarship programs, but also primary and secondary schools (public and private), home schooled and the local populace [programs]. We have the resources and talents needed to provide these services.



The cooperation I have seen and gotten is tremendous in the RMFMS. When we work together as a I have seen, a lot can be accomplished. We need to properly approach each other and our fellow members to volunteer for various club and federation positions no matter how small or major it may be.

Some of you may be saying, "what kind of hogwash is this?" or "what kind of political office is he trying to get?" Well, I just know that the more we can work together, the more we can accomplish. I know that everyone cannot get along with everyone else but, the more we can tolerate or cooperate, the more we can get done.

Enough of that for now. I want to tell you a little about myself. I was born and raised in southern Minnesota. I joined the U.S. Air Force just over a year after I graduated from high school. After 20 years of traveling around the world (the Phillipines, Turkey, Germany, Saudi Arabia, Italy, and various other places), I retired to Oklahoma which is where my wife lived. We joined the Enid Gem and Mineral Society (EGMS) in 1989. As a new member it didn't take me long to be elected president as what happens to a lot of new members. I've held various offices in the EGMS as well as the Oklahoma State Council of Mineralogical Societies. And as many of you know, I was the Show Chairman for the RMFMS Convention and Show in Enid in 2002.

I am currently employed as a contractor for the Air Force at Vance Air Force Base here in Enid. My job is Lead/Quality Monitor Precision Measurement Equipment Laboratory. In other words, I am in charge of the calibration laboratory which calibrates gages, torque wrenches, scales, weights, electronic test equipment that the technicians use to maintain aircrafts, civil engineering, fire department, clinic, and other numerous activities on base.

Happy New Year! We made it through another year. I would like to congratulate Richard and his administration for a very successful past two years. May all RMFMS members have a joyous and prosperous New Year.

SR ROCKHOUND SHARES LOCATIONS & HISTORY, ISSUING A CHALLENGE TO OTHERS

BY CHARLES WEBB, CSMS

After running the hills for years prospecting and rock hunting, I find I am slowing down. So I'm going to list some of the areas I have been in and am offering a challenge to other members to do the same. How much of Colorado's history has been forgotten?

Let's start with the Four Corner area. Between Cortez and Dove Creek on the west side of Hwy 666 is Yellow Jacket Canyon. Back in the 60's while deer hunting in this area, I saw some dinosaur bone "float". Following up the stream bed, I came upon a rock outcrop which had 5 (that I could see) large discs embedded in it. These discs were over 3' in diameter and were from the backbone of a dinosaur. This area is now listed as "Canyons of the Ancients National Monument" and is closed to hunting, etc.

Dinosaur bones have been found all along the Colorado/Utah border. South of McPhee Reservoir and north of Hwy 145, on private property, there are several **fossilized oyster shell beds**. I last saw them back in the late 60's. No, I didn't find any fossilized pearls.

Going east on Hwy 160 from Durango, cross the Peidra River, and then north on FR 622. Go to the trailhead on the north side of the Peidra River. Continue upstream (east) until you come to Sand Creek. Stay on the west side of Sand Creek, and go north towards the top of the ridge. As you approach the ridge top, there is an outcrop of **jasper** the size of a small school bus. The color is solid brown (reddish-brown). We were going elk hunting in the Sand Creek area in the late 60's, and the outcrop is about 2½-3 hours on horseback. There were only a few small pieces loose from the outcrop.

About 10 miles east of Pagosa Springs on Hwy 160 is Treasure Falls. Richard M. Pearl and Stephen M. Voynick both list this location in their books about the **geodes**, **agates**, and **natrolite** in the volcanic cliffs about ¼-½ mile east of the Treasure Falls area. I climbed the talus slope (scree) to the cliff area about ½ mile east in the late 60's. Following the cliff around to the left, I found an area of **blue-grey agate geodes** which did not appear to have been picked over by anyone. There were also **geodes** with **quartz crystals** in this area. One geode had common opal in it. When they were working on the highway back in the 60's about 2 miles east, they pushed a lot of material over the edge of the road on the west side. There were **geodes** with **amethyst crystals** showing in the cliff area where they were working. This area is not for small children as there is heavy traffic on Hwy 160. If you climb up to the cliff area, be careful not to cause

rock falls on the highway.

Now let's go northeast to the Saguache area on Hwy 285. From Saguache, take Hwy 114 west about 15½ miles to 41G. Turn south and go about 6.8 miles up Houselog Creek. There was a culvert there, and a forest road junction. About 150' or more up the hill to the north in weathered lava, there is **chalcedony nodules geodes, geodes, botryoidal, jasper, and banded agate**.

Returning to Hwy 114, continue west over the Continental Divide (North Pass) to FR 804. Turn left on FR 804, and go south to the T. Turn left on NN44 and go back east to the switchbacks just below Cochetopa Pass. Go north up Corduoy Creek a little over a mile. There are **geodes** in this area, **petrified wood** (highly agatized), and **arrow heads** have been found. When Jim Walker was cutting **geodes** from this area, he stated there was **gold dust** found in the diamond saw.

Back on NN-44, go past FR 804, staying on NN-44. On the right is Cochetopa Dome. On the southwest side of the mountain, I picked up one piece of float which was **fancy jasper**, about the size of a flattened egg. The colors were red, green, and yellow. I looked around the area but never found any ore. There has been **fancy jasper** found on the Sawtooth Mountain to the northwest. There is a story about this area of **jasper** being mined over 150 years ago and transported over Cochetopa Pass and down the Rio Grande to Santa Fe. This **jasper** was used in the cathedral of the City of Mexico. There are **apache tears obsidian nodules** from ¼"-2" in size on the west side of Cochetopa Dome. Look for them along the side of the road or in a road cut.

Going back to Saguache and north to Poncho Pass, I was told that **opal** could be found along the old railroad track on the north side of the pass. The railroad used to run up over Marshall Pass. They said there were blue or green color in the stone. Due to the cold which would freeze and break **opal** in this area, I have felt that what had been seen was **labradorite**, a plagioclase feldspar. I made one trip in the Marshall Pass area (east) but lost the railroad and ended up on the south side of Pancho Pass.

Let's now go north of Buena Vista to the Clear Creek Reservoir, just south of the small town of Granite. Go west past the reservoir and the private property. In the Clear Creek streambed, there are chunks of **green fluorite**. It is possible that they were washed down from the old mining areas up above Winfield, Rockdale, and Vicksburg. I never saw **fluorite crystals** but didn't look very hard. I found out just how brittle fluorite was when I started cutting a teardrop and dropped it.

Okay, let's change gears. What is an **arrastre**? This is a man-made item for grinding (milling) ore for metal. On fairly level ground, a hole is dug and a post is placed into it. A circle is dug around the
(SEE "HISTORY" ON PAGE 8)

HISTORY—CONTINUED FROM PAGE 7

post and lined with stone in the bottom of the circle, trying to keep the top of the circle as level as possible. Fastened to the post is a long pole. Fastened to the short, large end is a drag to go around the rock circle and break up the ore. The long end of the pole is to provide leverage so that it is easier to go around the circle with the drag. The **arrastre** is normally located fairly close to a stream. After the ore is crushed, it is then panned to collect the precious metals. The collected metals are then melted down and cast as a slug or ingot. The reason for smelting the metal is so that it could be moved on the back of animals in panniers. The old panniers were mostly made of leather (rawhide) and would let fine metal be lost through the stitches when they were sewn together. The old Padre miners worked the La Plata Mountains many years ago. They would travel up Junction Creek over the Cumberland Basin and down Bear Creek. Years ago there was a saber embedded in a tree on Bear Creek, and I have not heard of it being removed. I did hear that the small cannon was packed out on a horse, crossing the Dolores River up over Taylor/Stoner Mesa to the area of Dunton.

Northeast of Dunton is Navajo Lake. The story is that the Ute Indians ran off and killed the miners in that area and then filled in the shaft to the gold mine. The mine has not been relocated.

Northwest of Dunton 6 or 7 miles, there are stories about another mine which also had been covered over. Little Joe of Dunton was supposed to have located this mine. He had a rock shop at Dunton, when you could catch him as he was also working a mine on Calico Mountain for **silver in rhodonite**. Joe passed in the early 70's. While elk hunting, a member of a group crossed a stream at dusk searching for elk tracks in the snow on the other side of the stream. Returning across the stream, he broke through the ice and got wet up to his waist. We built a fire and put him in a sleeping bag to warm him up. He asked me what would make a large circle in the snow like someone had placed a large doughnut down and then picked it back up. He said there were 6 of these circles before he went to sleep. This was in the area where Joe was supposed to have found the old Padre Mine. Yes, there were arrastres.

The old Padre miners also went northeast from the La Plata Mountains over the Continental Divide, angled northeast up the San Luis Valley, crossed to the east of Poncho Pass, down across the Arkansas River, and up through Bassam Park. There is a cave in the Bassam Park area that the locals call the Old Spanish Fort. I'm told the miners did stop in that area but not at the cave.

On up past Trout Creek Pass, staying on the west side of the pass, and through Buffalo Meadows north of Buena Vista on Four Mile Creek is another arrastre (teenagers lovers lane area).

There were arrastres on Buckskin Creek northwest of Fairplay. Years ago I was talking to Bill of Buena Vista and he told me of hunting in the Buffalo Meadows area. While crossing a stream, he saw something on a sand bar; dismounting his horse, he picked up a slug. He stated he had spent several hours in that area and returned again later but never found anything more. He showed me the slug. It was about 1½" long, as big as my thumb, and was bronze gold color. Bill had several claims in the Buena Vista area including a **copper** claim up Cottonwood Creek. I have been told of 2 arrastres, one on each side of a ridge which was supplied by a mine on top of the ridge.

If you know of any arrastres in the area north of the Arkansas River, east of the Continental Divide, south of I-70 and west of Hwy 9, I would like to know. Please drop me a letter at Charles Webb, 2524 Cather Circle, Colorado Springs 80916 (I do not have email). I also have a numbered location map of the Chaffee County sites which was distributed about 30 years ago at the Columbine Gem & Mineral Show in Salida.


Okay; now who will be next?!!


SOCORRO—CONTINUED FROM PAGE 6


collecting sites accessible and put a claim on them, if possible. Write to your congressmen and senators. If we work together, we may be able to save some areas.

I enjoyed the symposium, collecting, and the time spent with new friends from other clubs. Thanks everyone for making it another great trip.

TIPS & TIDBITS:

 **Outdoor Storage**—When storing gem material outdoors, be careful. Many colorful pink and purple minerals are faded by intense sunlight. These include rose quartz, amethyst, lepidolite, and fluorite. Fossil specimens may be destroyed outdoors by wetting, freezing, and thawing. Many fossil specimens are clay based, although there are some specimens that are in sandstone sediment. Common opal, if left in the elements, will craze, crack and fall apart. *From Quarry Quips 12/07 via Rock Chips 7/07*

 **Chrysocolla Color Rejuvenator**—If you have chrysocolla and would like to bring out the blue and green, also any copper, put it in full strength chlorine bleach for as long as it takes. This really works, and you get good colors. *From T-Town Rockhound 12/07 via McCurtain G&M Club News, 9/07*

 **Gardener Trick**—For different colors from your chrysanthemums, try this trick from Walt Brundage of the Shawnee G&MS; empty the sludge from your Genie water tray into suspension and then into the chrysanthemum beds. The mineral sludge produces all kinds of colors in the flowers. *From T-Town Rockhound 12/07 via McCurtain G&M Club News, 9/07*

I ALWAYS NEED TO DIG!

BY JOHN CASTO, CSMS

Last year my spring break was coming up, and Colorado was frozen! My wife, **Laurie**, and I were going crazy; what could we do? Then a flock of geese flew overhead, and it came to me—HEAD SOUTH!!

Laurie loves fluorite and had been reading about the mines in Bingham, New Mexico, and I thought we would drive down and check it out. Laurie called **Allison Holland** at the Blanchard Mine and for a nominal fee, of course, she was happy to set us up.

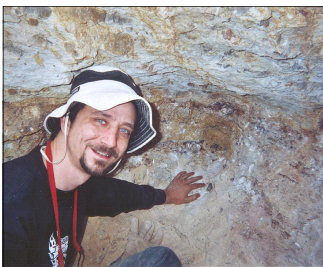
I rented a mini-van, piled the family in, and hit the road. The drive was not that long, about 5-6 hours. Unless you like speeding tickets, be careful! There are some long stretches, and it's hard not to speed.

We arrived in Socorro, got a hotel, and tried to get some sleep. We left the hotel the next morning and made the short drive to the "town" of Bingham (2 buildings out in the middle of nowhere). The Rock Shop is the building on the right with all the rocks in front of it, so it's hard to miss.

We met up with Allison, signed the necessary paperwork, and got directions to the mine. Allison stressed that if it started to rain, we would need to leave right away; the road floods out and becomes quite slick. She also insisted that we sign out when we left so they would know that we got out safely, just in case. Good to know if you plan to go.

With all the legalities done, it was time to dig! The mine was easy to find, and the van had no problems getting in. Excitedly, I parked the van and after just a few steps, I was finding signs all over the hill leading to the mine. This area is famous for fluorite, galena, linarite, wulfenite, barite, quartz, etc.

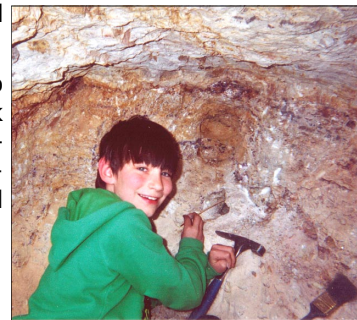
Entering the mine was prohibited, but the area just outside the main entrance showed some promising seams of fluorite with barite. I was surprised how hard the rock was to break, but luckily I had brought extra chisels (I broke 2), hammer, and other implements of destruction. It took several hours to expose a small pocket. We were excited after previously seeing some of the finds at the rock shop. Although it turned out to be a small pocket, it yielded some nice pieces of small blue fluorite on matrix.



Laurie and our son, **Johnny**, had been finding a bunch of good pieces in the mine's dump pile. This is where she found our best piece of the day, a beautiful bunch of deep blue fluorite and galena cubes. **Jamie**, our daughter, even found a nice Trilobite fossil in the hillside, as well as many nice druzy quartz formations.

After a beautiful day of rock collecting, it was time to go. We packed up our treasures, checked out with Allison, and showed her our prizes. She did say something about a 20-lb limit that morning but had no problem with the amount we collected as the van drug off.

Once again, I need to dig, my spring break is coming, and Colorado is frozen! I wonder if we should head south?



Give people more than they expect and do it cheerfully.

Marry a man/woman you love to talk to. As you get older, their conversational skills will be as important as any other.

Don't believe all you hear, spend all you have, or sleep all you want.

When you say, "I love you," mean it.

When you say, "I'm sorry," look the person in the eye.

Believe in love at first sight.

Never laugh at anyone's dreams. People who don't have dreams, don't have much.

Love deeply and passionately. You might get hurt, but it's the only way to live life completely.

In disagreements, fight fairly . . . no name calling.

Don't judge people by their relatives.

Talk slowly but think quickly.

Remember that great love and great achievements involve great risk.

Say 'bless you' when you hear someone sneeze.

When you lose, don't lose the lesson.

Remember the three R's: Respect for self; Respect for others; and Responsibility for all your actions.

Don't let a little dispute injure a great friendship.

When you realize you've made a mistake, take immediate steps to correct it.

Smile when picking up the phone. The caller will hear it in your voice.

2007 AWARD BANQUET & 2008

OFFICER INSTALLATION BY BETTY CAIN

It was bitterly cold but dry and the attendance was good at the January 17th event. The Embassy Suites provided a great location and the festivities started at 6:00p. The room filled quickly and dinner was served.

Drew Malin, the out-going president, started the program with announcement of the 2007 Life Members, **Dorothy Atlee, Vince Johnson, and Marge Regel**. Unfortunately, none of the honored members were present to accept their awards (they will be available at the next General Assembly).

The next order of business was the presentation of the 2007 Awards of Merit. Recipients **Ilona Vogt, Roger Pittman, and Betty Cain** were surprised by the great honor. This award is presented to members who have demonstrated exceptional service throughout the years to CSMS; selection is made by the Executive Board from member nominations and is always kept a secret until the banquet. (*Editor's Note: I was gobsmacked at being selected; this is truly a great honor. My thanks to everyone who felt I was worthy to be added to such a prestigious list. I am truly humbled.*) ☺

Next, but certainly not least, were the presentation of Certificates of Appreciation. This award is presented to members and guests who have gone over and above during a CSMS event. Awards were presented to **Mannie Sanchez** for the 2007 Show printing, **Steven, Rich Fretterd** for the New Member Orientation Class, **Glenn, Don, Loren Lowe** for the New Member Orientation Class, and **Donald Miranda** for the New Member Orientation Class and assisting with the Pebble Pups.

A special new award this year, the "Passion" award, was presented by out-going vice president, **Linda Laverty**, to **Prof. Steven Veatch** for his reorganization of the Pebble Pubs. Great work, Steve; we appreciate you so much!

Ray Barry issued the official oath of office to the new Board of Directors **Rick Copeland** (President), **Ron "Yam" Yamiolkowski** (Vice President), **John Casto** (Secretary), **Ann Proctor** (Treasurer), **Betty Cain** (Editor), and Members-at-Large **Bill Cain** and **Charles Webb**. The new officers were charged by Ray to perform their duties in accordance with the

CSMS Constitution and By-Laws. The new Board presented thank-you gifts to Drew Malin and his lovely wife, Brenda.

The new Board proved to have a sense of humor by wearing flannel in honor of our new president (see "Fashion Tip" in the December 2007 *Pick&Pack* for an article from Rick on his favorite attire!). BTW—he was the only one not wearing flannel at the party, even the Past President, Drew, got in on the spoof. According to Rick, he "didn't get the memo." It was surprising how nice the flannel shirts looked with a coat and tie, and it never goes out of style!

After the laughter died down, our guest speaker, Pete Modreski, presented a wonderful program, "A tour of the best mineral, gemstone, and crystal localities of the U.S." There were many door prizes of great specimens awarded after the presentation. We truly appreciate you, Pete; you always do a wonderful job!



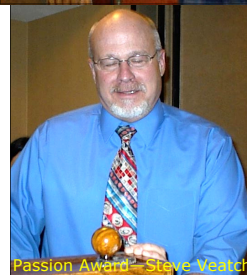
Award of Merit - Ilona Vogt



Award of Merit - Roger Pittman, 1/17/08



Award of Merit - Betty Cain, 1/17/08



Passion Award - Steve Veatch



"Yaminite" specimens awarded to Ron "Yam" Yamiolkowski, VP



2008 "Flannel" Board: (L/R) John Casto, Drew Malin, Bill Cain, Betty Cain, Charles Webb, Rick Copeland, Ray Barry, Yam Yamiolkowski, Ann Proctor

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
FEBRUARY 2008 — CSMS CALENDAR					1	2 Ground Hog Day 12n Lapidary Group
3	4	5	6 Ash Wednesday	7 Chinese New Year 7p Board Meeting	8 7:30p Crystal Group	9
10	11	12 7p Micromounts	13	14 Valentine's Day	15	16 3p Jewelry Group
17	18 Presidents Day	19	20	21 6:30p Show Meeting 6:30p Pebble Pups 7:30p General Assembly Meeting	22	23
24	25	26 7:30p Camera Group	27	28 7p Faceting Group	29 Leap Year	Mar 1

"Draw a circle, not a heart, around the one you love because a heart can break but a circle goes on forever." - Unknown

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, 1514 North Hancock; Kerry Burroughs: 634-4576

Jewelry Group: 3rd Saturday @ 3p; 6608 Gambol Quail Dr E; contact Rick Copeland: 594-6293 or Bill Arnsen: 749-2328

Faceting Group: 4th Thursday @ 7:00p, Senior Center, David Wilson: 635-7891 dlwilson@pcisys.net

Fossil Study Group: Meets at 6p quarterly at the Senior Center contact John Harrington, 599-0989 or Steve Veatch 748-5010

Lapidary Group: 1st Saturday @ Noon 3085 Rhapsody Drive, Drew Malin: 531-7594

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

Pebble Pups: 3rd Thursday @ 6:45p, Senior Center, Steven Veatch: 748-5010



REFRESHMENTS FOR GENERAL ASSEMBLY MEETINGS

Feb—Board	Mar—Crystal	Apr—Jewelry
May—Faceting	Jun—Show	Jul—Lapidary
Aug—Picnic	Sep—Camera	Oct—Micromounts
Nov—Fossils	Dec—Everyone	

PRESIDENT	Rick Copeland	594-6293	rick.copeland@covad.net
VICE PRESIDENT	Ron Yamiolkoski	488-5526	Ron.yamilkoski@dmjmharris.com
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MEMBER-AT-LARGE	Charles Webb	392-7214	
PAST PRESIDENT	Drew Malin	531-7594	advanceone@comcast.net
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FIELD TRIP DIRECTOR	Brent Williams	632-3552	zaphod1863@yahoo.com
SHOW CHAIRPERSON	Drew Malin	531-7594	advanceone@comcast.net
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FOSSIL GROUP	John Harrington	599-0989	harrington1@mindspring.com
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MICROMOUNT GROUP	Phil McCollum		acc@frii.com
PEBBLE PUPS	Steven Veatch	748-5010	sgeoveatch@worldnet.att.net

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, Rick- etson Auditorium, Denver Museum of Nature and Science, <http://www.wipsppc.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.



Mettler H33AR Electronic Scale, 160 gal max; accurate to .0001 grams. \$170
Dick's Rock Shop



4-1/2" Trim Saw \$195
Dick's Rock Shop

FOR SALE

14" diamond
Lapidary Saw
Highland Park
\$800
Dick's Rock Shop

Membership Pins

We experienced a problem with the first vendor selected for our new membership pins but found another vendor—the pins will be available at the February General Assembly. They are beautiful!

Pins will be awarded to active 2007 members who have successfully completed 1 yr, 5 yr, 10 yr, 15 yr, 20 yr, and new Life membership. We will have a supply available for \$5 each if anyone wants to 'bling' up their CSMS vest!

We also have CSMS patches and 2005 Rocky Mountain Show pins available.

Give your sweetheart a CSMS pin for Valentine's Day.



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GENERAL ASSEMBLY MINUTES

JANUARY 17, 2008

BY JOHN CASTO, CSMS SECRETARY

2007-2008 Annual Awards & Officer Installation Banquet

This year's dinner at the Embassy Suites Hotel started at 6pm for cocktails and 7pm for dinner. **Drew Malin** started the night off with heart-felt thanks to all CSMS members for a wonderful five years as both Vice President and President. In closing he said, "If ever there was a group or club to be involved in, it's Colorado Springs Mineralogical Society. Take time to get involved; it's been a lot of fun."

Special awards were presented to **Manny Sanches** for all the printing he provided at the 2007 Gem & Mineral Show and to **Ilona Vogt** for her great work at the silent auction and our club shows. Other awards included **Roger Pittman** for his unsung work with local schools. A very special award went to **Betty Cain** for her wonderful work keeping the *Pick&Pack* going as "lifetime" editor.

Steve Veatch received an award for reviving the Pebble Pups. This group is open to all members from very young to as old as Roger Pitman. Lifetime Member awards were presented to **Dorothy Atlee**, **Vince Johnson**, and **Marge Regel**.

Steve Veatch reminded us of the upcoming Colorado Prospecting & Mineral Collection Seminar (AKA: New Member Orientation) at the Western Mining Museum of Industry. This class teaches how to read various maps, locate and use GPS coordinate for mapping, and fossil and mineral collecting. Do you want to know how to find them? They will teach you all you need to know about prospecting. Sounds like fun! The class is scheduled for May 17, 2008 at WMMI.

CSMS members **Glenn Beatie**, **Rich Fretterd**, **Don Hillman**, **Loren Lowe** received awards for their involvement at the 2007 Member Orientation class. **Donald Miranda**, Steve's assistant, was also honored for his work with CSMS.

Then it was time to roast the New Guys! Ray Berry had the duty of swearing in the 2008 Board members. This year's members are Members-at-Large **Charles Webb** & **Bill Cain**, Editor **Betty Cain**, Treasurer **Ann Proctor**, Membership Secretary **Bill Cain**, Secretary **John Casto**, Vice President **Ron "Yam" Yamiolkoski**, and lastly your new President **Rick Copeland**. Our new president's fashion statement of flannel proudly represented your Board members.

The evening's awards concluded with the traditional "passing of the shoes" which are large to fill, but Rick has big feet. A new tradition of presenting yamonite to the incoming Vice President was begun thanks to Drew.

Pete Modreski gave the presentation, "A tour of the best mineral, gemstone, and crystal localities of the U.S." Thank you, Pete, and to everyone whose efforts throughout the year have made Colorado Springs Mineralogical Society a successful, fun, and growing organization.

YAMONITE

BY YAM YAMIOLKOSKI

I want to thank you all for the two specimens of yamonite. As you discovered when collecting the yamonite for me, it comes in different forms. The more popular and useful form is the one that exhibits the presence of carbon atoms. As you know it is not a crystal and can deteriorate over time. Nevertheless, it has some useful properties that have made it a mainstay in certain parts of our country and during certain seasons of the year. Actually, one of my favorite ways to show the carboniferous form of yamonite is to cut the mineral into elongated strips; place it in a very hot vegetable oil bath until its color changes somewhat. I then shake off the oil and sprinkle fine chips of halite on it.

Large pieces of carboniferous yamonite are found on the island of Paupau, New Guinea, where they are considered to be quite valuable. For a bushel or so, you can buy a wife if you so desire. Personally I'd rather just dunk my specimens of carboniferous yamonite in hot oil.

I'll keep the non-carboniferous specimen in my collection as a memory of a fun night.

CSMS ANNIVERSARIES

25 Year Life Members

Dorothy Atlee, Vince Johnson, Marge Regel

15 Years

Loren Lowe

10 Years

Sidney Benda, Jack Bierdeman

5 Years

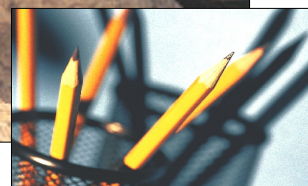
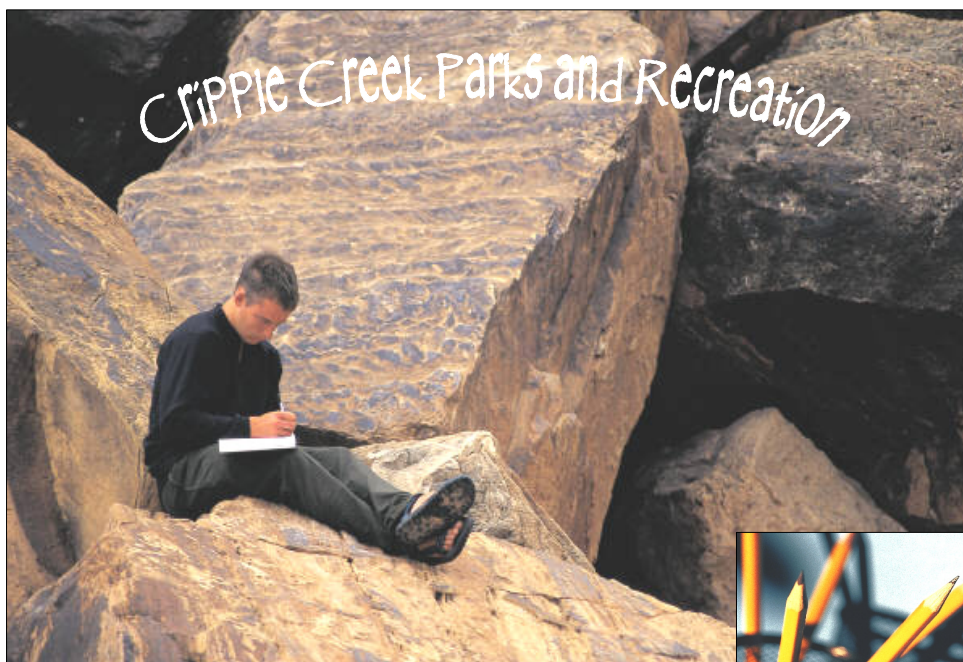
Jim Bushnell, Drew Malin, Steve & Emily Cope, Colin Nisbeth

1 Year

Dan Alfrey, Brian & Kari Annen, Craig & Raelynne Blackwell, Ron & Ester Blake, Michael Doughty & Robin Temple, Terry & Purnima Girouard, David Gardiner, Dave Greenberg, Robin Hagman, Darren & Marilyn Heese, Sharon Holte, James & Deborah Hooker III, James & Lynn Hunkins, Don & Norma Kursulas, Carol MacCauley, Chris Macur, Ted Moge, Mike & Cathy Mosby, Rich Neely, Michael & Yitsin Pauly, Mike & Tammy Tanis, Carolyn Thornton, Rob & Tammy Weiss, Paul Whitehead & Thelma Hatfield, Diana Wing, Ted & Mara Woods

2007 New Members

Tom Acciavatti, Cat Ashley, Catherine Atwood, Jennifer Bailey, Roger Barnes, DeAn Beukema, Jack Boyers, James & Shelly Brandon, Danny & Laura Canini, Ken & Ellie Carlson, Bob Carnein, Steve & Linda Carnell, Jerry & Marilyn Cavin, Frank & Dee DiNio, Dianna Ebat & Alex, Jim & Kathryn Evans Jr., Jim & Katy Gilbert, Barbara Gumlia, Phil Harris, Peggy Hartmann, Jean Hensel, Frank & Cornelia Hice, Larry & Linda Hill, Richard Hobson, Willy & Bonnie Hofmeister, John Holiday, Mary Beth Hollinger, Cal & Chris Jacobson, Tom & Nancy Lemmond, Susanne Methot, Daniel Mitchell, Marion Muhme, Mike Nelson, Michael & Megan Pack, Florence Parks & Linda Gragert, Mark & Sherri Phelan, Tim & Bobbi Poland, Veronica Poteat, Ann Proctor, Jeff & Paula Rossmanith, Art & Becky Santellen, Clint & Donna Gail Schneider, Teresa Stoiber, Francisco & Mindy Sotomayor, Raymond Wilson, Kevin Witte, Ron Yamiolkoski, David Yates, Michael Yates, William & Fern Zisser



SCIENCE AND NATURE WRITING WORKSHOP

Date: February 2, 2008

Time: 9:00am-5:30pm

Location: Cripple Creek Park & Recreation

Instructor: Steven Veatch, Don Miranda, local authors

Registration Fee: \$49, includes certificate of completion (Optional Tuition Fee: \$30 for Colorado School of Mines graduate credit **payable during workshop**)



Science and nature writing is a popular genre of contemporary literature, offering endless opportunities for craft, creativity, and publication. Learn to write clearly and effectively about science and nature. This class is for anyone wishing to learn about science and nature writing. This course introduces you to the fundamentals of science and nature writing and includes the process of writing a single piece of science and nature writing. The workshop includes tips on: finding and developing story ideas (hikes, stargazing, fossil hunts, etc.); discovering the difference between a subject and a story; outlining and structuring stories; strategies for opening leads and making transitions between your story and its larger contexts; and discovering the role of the editor in publication.

This is also a perfect class for teachers. With all the state standards and other competencies required of students, writing is an essential skill. This workshop approaches the subject in a clear and accessible manner that provides science-rich, student-centered learning experiences. Taught by experienced practitioners, this class will be a valuable asset for anyone interested in integrating inquiry-based science and literacy strategies in their classrooms, informal education programs, or for their own use. A certificate of completion will be awarded. Formal scientific writing will also be covered.

What others have said about the workshop . . . *"The instructors taught us amazing techniques for investigating the natural world around us, and revealed the most compelling ways to communicate our findings to others."*

"This workshop is an absolute treasure for anyone interested in writing about science and nature."

To register or for more information, contact:

Cripple Creek Park & Recreation

Phone: 719/689-3514



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

APPLICATION FOR MEMBERSHIP

1. All memberships run from January 1 to December 31.
2. 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 received membership for November and December plus the following year beginning January 1. The partial year membership shall not apply towards the 25 year Lifetime Membership.
3. 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.
4. 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.
5. 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						
STATE		ZIP		CITY		
PHONE				EMAIL		
				CELL		
HAVE YOU PREVIOUSLY BEEN A MEMBER OF CSMS						
			NO	<input type="checkbox"/>	YES	<input type="checkbox"/>
			WHEN			
YOU ARE PAYING FOR THE YEAR			2008		Each year the Colorado Springs Mineralogical Society publishes a Membership Directory. The directory is distributed to members ONLY .	
Your dues MUST accompany this application.				<input type="checkbox"/> Check if you would NOT like your name and address included.		

	Existing Member Before Jan 31	All Members After Jan 31	New Member	
			After June 30	Oct 1 – Jan 31
<input type="checkbox"/> JUNIOR MEMBERSHIP (12 TO 17 YEARS OLD)	<input type="checkbox"/> \$2.00	<input type="checkbox"/> \$2.00	<input type="checkbox"/> \$1.00	<input type="checkbox"/> \$2.00
<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 <input type="checkbox"/> | MICROMOUNTS <input type="checkbox"/> |
| FOSSILS <input type="checkbox"/> | FACETING <input type="checkbox"/> |
| LAPIDARY <input type="checkbox"/> | SILVERSMITHING <input type="checkbox"/> |
| JEWELRY <input type="checkbox"/> | PHOTOGRAPHY <input type="checkbox"/> |
| METEORS <input type="checkbox"/> | FLUORESCENTS <input type="checkbox"/> |

VOLUNTEER CAPABILITIES *Clubs are made up of volunteers!*

- | | | |
|--------------------------------------|--------------------------------------|---|
| ARTIST <input type="checkbox"/> | WRITING <input type="checkbox"/> | EDITOR <input type="checkbox"/> |
| MAILING <input type="checkbox"/> | LOCAL SHOWS <input type="checkbox"/> | YOUTH ACTIVITIES <input type="checkbox"/> |
| PROGRAMS <input type="checkbox"/> | FIELD TRIPS <input type="checkbox"/> | REFRESHMENTS <input type="checkbox"/> |
| HOSPITALITY <input type="checkbox"/> | WEB SITE <input type="checkbox"/> | LIBRARY <input type="checkbox"/> |

FOR FAMILY MEMBERS, PLEASE LIST CHILDREN AND AGES

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 web site, www.CSMS.us.

Signature of Primary Applicant

Mail this form and your payment to:

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

Application Date

BETTY CAIN, EDITOR



NONPROFIT ORG
US POSTAGE PAID
COLORADO
SPRINGS, CO 80901
PERMIT No. 6

Time Value
Do Not Delay

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

February 2008



Joining the Colorado Springs Mineralogical Society (CSMS)

General Assembly meetings are the third (3rd) Thursday of each month, except 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. 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—\$2

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.