

Cripple Creek Opal

By Steven Wade Veatch, CSMS, and
Michael J. Driessen, Earth Science Student-Emporia State University

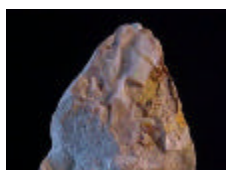
Introduction

Water plays an important role in the formation of opal deposits. Groundwater, seeping downward through decomposing silica-rich rocks, picks up traces of the silica and then combines with various chemical elements at low temperatures, forming a kind of silica gel. This gel often fills amygdulæ (cavities) in volcanic rocks such as rhyolite and basalt. Opal may replace a buried shell, a bone, or more commonly an old log forming an opalized fossil in sedimentary rocks.

Opal deposits followed the emplacement of a volcanic complex in Cripple Creek, Colorado about 32 million years ago. The volcanic complex contained several explosive vents localized along a single diatreme (central fissure). Mineralization soon followed the emplacement of the volcanic complex when mineral-rich fluids moved from great depths below the ground and seeped into cracks and fissures. These mineral-rich fluids then cooled into narrow, high-grade gold telluride veins or as low-grade disseminated, microcrystalline native gold attached to pyrite. A number of other minerals, including opal, were also deposited in those veins.

Opal

Opal is identical to quartz in chemical composition but contains one to ten percent water. The water is in the microscopic openings between silica spheres that make up the bulk of an opal. Since opals contain water and may lose it in dry air, some varieties of opals may slowly decay through the loss of water. The results are a stressed and smaller opals covered with cracks.



Physical Properties

Opal is amorphous (not in crystals), brittle, easily scratched, and heat sensitive. Its hardness can range from 5.5 to 6.5 on Mohs scales, and has a specific gravity between 1.98 and 2.25. Opal has a milky translucency, a vitreous or pearly luster, and forms in a variety of habits ranging from globular to massive. Opal leaves a white streak on a porcelain plate. Due to a lack of crystalline structure, opals have a conchoidal (shell-like) fracture—the same as quartz. As with many other minerals, opals vary in color. Common colors include white to gray; red, yellow brown, blue, green and even colorless. Opal often contains a trace of uranium,

(See "Opal" on page 7)

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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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Linda Laverty Vice President
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**Colorado Springs
Mineralogical Society**
Founded in 1936

Lazard Cahn
Honorary President

**Our Staff...**

Bill & Betty Cain
Brenda Malin

Editors
Mailer

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.

ALL FORMATS ARE WELCOMED.

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

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Phone:
(719) 634-8205

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PRESIDENT'S CORNER



Drew Malin

If it's December, it's time to think about our banquet! This year we will be holding the January Officers Installation Banquet at the SilverWood Hotel. I'm sure our diligent editors will have all the details further in this issue, so I'll take care of the annual arm-twisting to get all of you members to join us! OK, OK . . . No arm twisting, but if you haven't been to the banquet before, I encourage you to come. It really is one of the best ways to get to know your fellow members, and the food and speaker will be top notch.

Speaking of our diligent editors, as this is the final issue of the P&P for this year, I'd like to thank **Bill and Betty Cain** for stepping in and doing a fantastic job. Not a meeting has gone by that I haven't heard members talking about how great the P&P has been since they took over, and I couldn't agree more! Our club has been blessed with dedicated and talented editors over the years, and it has been them, as much as anything, that has made our club so successful. So, I send my sincere thanks to **Bill and Betty**, and to **Ethan Bronner** and **Ray Berry** before them. You have made the job of being a club officer a pleasure; I want you to know how much I appreciate you all.

Drew

December Meeting—12/21

No Bingo!

The December Meeting will be a shortened business meeting to elect officers and a very fun event planned to follow—**White Buffalo Exchange!!** Everyone is to bring their favorite snack and share the holiday spirit; hot beverages will be provided.

Please bring a wrapped hobby-related gift item valued at \$5—\$10 to be exchanged during our Holiday gathering. If you need an idea for your gift, be sure to attend our Silent Auction!!

Linda Lafferty and Ray Berry have prepared the rules for the auction; this should be a great time—get primed for lots of laughter.

You don't want to miss this meeting!



Gems of Enchantment

By Diane Weir, President, Chaparral Rockhounds
From AFMS Newsletter, Dec 06-Jan 07

As President of the Chaparral Rockhounds, I wish to extend an invitation to every rockhound in these grand United States to come and join us for the AFMS Convention and our "Gems of Enchantment" 2007 Gem and Mineral Show!!! It is going to be a 4-day fun-filled extravaganza with a great 3-day field trip scheduled after the show. This show is not something you're going to want to miss!! Not to mention the chance for hobnobbing with old friends and the opportunity for gathering up new ones!! Among the many "special" events planned will be the celebration of the **AFMS 60th Anniversary**.

For complete information, including motel and exhibitor forms, go to www.amfed.org/show2007.htm.



I wish to thank you all for sending me your club bulletins; I read them and look for particular articles. I am encouraged when AFMS articles are included. It indicates that you know that we exist and that there are some important messages that need to be communicated to all persons in the AFMS, your club in particular.



I also read the club roster, and I am dismayed when I read the same names in a variety of positions in the club. This means that the club is not in good health. It means that a very few individuals are keeping the club alive, and when they can no longer function in all of these positions (health, burn-out, change of address, whatever) the club has some severe gaps in its leadership. Wayne Sukow, President of the EFMLS, said it best when he talked about the officers of the club and how they labor without much recognition; and how the members of the club are important to carry out the many duties that allow a club to function, especially during a local show. But members need to become officers. It is the only way that a club can grow and survive.

I am reminded of a parable that I read in the CFMS Newsletter about a magic club. One where, when members came to the club meeting, everything had magically been prepared. The seating arrangements and the refreshments were ready. The agenda, program, and door prizes were arranged as if by magic. And, if the members didn't attend the meeting, a newsletter would magically appear in their mailboxes, telling them all about the meeting. And, at the meeting, when a call was made for volunteers, the members could stare at the ceiling or floor until some already overworked officer would magically say: "I volunteer". Is your club a magic club? I hope so, things are getting done, even if apparently by magic; but it cannot stay magic forever. Those magicians (read Club Officers) performing that magic need your help.

So, you members out there who are reading this message, please assess your skills and volunteer for a position in your club that might interest you. Become an officer; and who knows, someday you might be writing this message. I hope so.

On another note, I plan to attend all of the Regional Federation Shows and Conventions during the 2007 Fiscal Year, which starts November 1, 2006. If you see me in my green Aussie hat, introduce yourself and tell me how things could be improved. I represent you.

Bob



2007 Show Meeting Schedule

Show Chairperson Kaye Thompson would like to have a meeting before the General Assembly Meetings to prepare for the 2007 Show—*Barite, the Industrial Beauty*.

This is *your* show, and it takes everyone to make it a success. Kaye is asking for volunteers and anyone interested in participating to come to the planning sessions at 6:30p before the General Meetings.

Lots of hands make light work!

Upcoming Shows

December 8-10

Flatirons Mineral Club annual show at the Boulder County Fair Grounds, 9595 Nelson Rd, Longmont, CO. Friday 10-7, Saturday 9-6, and Sunday 10-4.

January 12-14

Denver Area Mineral Dealers 1st Annual show. Holiday Inn Denver West, 14707 W. Colfax Ave, Golden, CO.

January 19-21

50th Annual Gila County Gem & Mineral Show, Globe, AZ. Contact Gill Morrow 928-812-0561.

February 23-25

Denver Gem and Mineral Guild's Gem and Mineral Show, Jefferson County Fairgrounds, Golden, CO.

March, 2nd Weekend

Deming Gem & Mineral Society Rockhound Roundup, Deming, NM.

March 16-18

Treasurer's of the Earth, ABQ Gem & Mineral Club's 38th annual show. www.agmc.info.

March 23-25

Fort Collins Rockhounds 46th Annual Gem & mineral Show, Geodes and Copper Minerals, fcrockhounds@yahoo.com.

March 23-25

Ada Gem, Mineral & Fossil Club, Ada, OK. Contact Ed Vermillion, okieed42@classicnet.net.

April 20-22

Meteorites & Dazzling Treasures, 54th annual Wichita Gem and Mineral Society show. Contact Gene Maggard gandpmagard@wildblue.net.

May 18-19

Annual Swap, Ellinwood Park, Ks 620-564-3300

June 7-10

RMFMS/AFMS Regional Federation show at Roswell, NM.

June 23-24

CSMS Annual Gem & Mineral Show, "Barite - the Industrial Beauty", Phil Long Expo Center, Colorado Springs, CO. info@csms.us.

August 9-12

CONTIN-TAIL 2007. Contact: Carolyn Tunncliff, 303-833-2939 ctunncliff@comcast.net.

Free USGS Map, Compass, and GPS Classes

USGS continues to offer these free classes for the public, the 2nd Friday of each month, at the Denver Federal Center, Lakewood, CO. Bldg. 810. Mornings (9-11) are Map & Compass, and afternoons (12-4) are GPS. To register, call 303-2024689 or email gpsworkshops@usgs.gov to reserve a place; bring your GPS unit.

RMFMS/AFMS Club Rockhound of the Year

From AFMS Newsletter, Dec 06—Jan 07

Congratulations to **Ray and Joyce Gilbert** for winning the vote this year as the Flatirons Mineral Club's (Boulder, CO) AFMS Club Rockhound of the Year. Ray is the 2006 show chairman and is on the FMC board. Ray and Joyce are active mineral collectors and lapidary enthusiasts. Their award will be presented at the October club meeting.

submitted by Gerry Naugle, Treasurer FMC

Congratulations to **CSMS Member AFMS/RMFMS Rockhound of the Year**

As a new member of the Colorado Springs Mineralogical Society (CSMS), I have been impressed with the organization and leadership of the President, **Drew Malin**, and would like to take this opportunity to nominate him as an AFMS Club Rockhound of the Year.

Drew has an enthusiasm for rockhounding that just bubbles over; he'll spout the rewards and fun of this great hobby to anyone at any time! He's totally infectious to young and old alike. His winning smile and warm personality can calm the most tempestuous situation. He seems to be tireless whether leading kids on a field trip or spending hours at the Show Hospitality Booth. We constantly use him as a very knowledgeable source for identifying rock samples. Drew is not only our President, he leads the Lapidary Group, is our Webmaster, acts as Membership Secretary, and does any other job that needs a willing hand. As changes occur in our club, as they inevitably do in any organization, Drew handles each situation in a professional and optimistic manner. He keeps us on track and moving forward. In today's fast-paced environment, more and more is required from volunteers, and many organizations are waning whereas CSMS is growing under Drew's leadership. I know that during the 70 year history of CSMS there must have been some very great leaders—Drew is at the top of the list in my book. *Submitted by Betty Cain,*



Pick&Pack Co-Editor

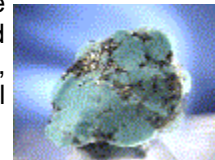
There's still time to get your 2006 Rockhound of the Year submission in to your (RMFMS) federation chairperson, BUT all submissions for 2006 must be received by the AFMS no later than December 31 to be considered for this year.



Birthstone for December: Turquoise

From Mineral Galleries.com

Turquoise is a valuable mineral and is possibly the most valuable, non-transparent mineral in the jewelry trade. It has been mined for eons since at least 6000 BC by early Egyptians. Its history also includes beautiful ornamental creations by Native Americans and Persians. Its popularity is still quite strong today. Although crystals of any size are rare, some small crystals have been found in Virginia and elsewhere. Most specimens are cryptocrystalline, meaning that the crystals could only be seen by a microscope. The finest turquoise comes from Iran but is challenged by some southwestern United States specimens. Turquoise is often imitated by "fakes", such as the mineral chrysocolla, and poorer turquoise specimens are often dyed or color stabilized with coating of various resins. The name comes from a french word which means stone of Turkey, from where Persian material passed on its way to Europe.



Color is, of course, turquoise, but this color actually varies from greenish blue to sky blue shades. Color can change with exposure to skin oils.

Streak is white with a greenish tint.

Luster is dull to waxy, vitreous in macro-crystals.

Associated Minerals are pyrite, limonite, quartz, and clays.

Best Field Indicators are crystal habit, hardness, luster, color and associations.

Tidbits

From Strata Gem, Tooele G&MS via Quarry Quips, Wichita Gem and Mineral Society, Oct 06

Acetone: An industrial type solvent containing harmful vapors.

Hydrogen Sulfide: By-product of sulfur and water. Deadly poison!

Manganese: In dust or vapors, it can damage the nervous system.

Quartz, Agate, Sandstone, Granite, Chert, Flint: All are of the silica rock family. The dust from this family contributes to silicosis of the lungs.

Styrofoam: When heated or burned, releases toxic gases.

Abalone: Grind and polish only when wet. Be aware that any odor detected is highly toxic.

Malachite: Work wet as the dust created when working dry is toxic.

Lead: Known to enter the body from dust, fumes, and water. It can damage the brain and neuromuscular system.

If you are using a material that is new to you, read the labels and heed any warning. We want all lapidarists to remain a healthy lot and continue to live long, active lives!

M C O N G L O M E R A T E W Y
 E A I G Y R A T N E M I D E S
 T P Q X E T V M T P X A A N T
 A Q A G J E E M R V W V J O J
 M G K I O M A G M A A Y E T S
 O H N A S G Z B O L L P U S U
 R R M E O J G A Z O C D A E O
 P N Z G I D Y L K C O R H M E
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 W K G T M O S E T I N A R G F
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ROCK
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 IGNEOUS
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 GNEISS
 GRANITE
 GYPSUM
 LIMESTONE
 OBSIDIAN
 PUMICE



Reservoir is Treasure Trove of Dino Prints

By Jim Erickson

Source: Scripps Howard News Service,
Taken from Strata Gem, Tooele G&MS, Oct 06

Paleontologist Bruce Schumacher was walking along the drought-lowered shoreline of southeastern Colorado's John Martin Reservoir when his eyes were drawn to a sandstone block.

"I looked down and had this glimmer of recognition that this was a giant footprint in front of me," Schumacher said. "Then I looked around and realized that there were dozens of them all around me." The prints were left behind by herds of duckbilled dinosaurs that trudged through the mud of a coastal plain 100 million years ago.

About 200 tracks have been found at the reservoir, and there are probably more to be found. But they are on federal property, and it is illegal to remove them. "The reservoir's shores likely hold more dinosaur tracks from the Cretaceous Period than any other Colorado site," said Martin Lockley, a University of Colorado geologist. The Cretaceous ended 65 million years ago.

Lockley and graduate student Reiji Kukihara will summarize the recent John Martin Reservoir discoveries at a meeting of the Geological Society of America.

"In all likelihood, this is the richest, most dense concentration of dinosaur tracks in Colorado from the Dakota Group," said Lockley, director of the Dinosaur Tracks Museum at the University of Colorado at Denver. "It's probably one of the biggest sites in the high Plains."

Be Early—Save \$\$

As adopted by the membership at the November 2005 General Assembly, our membership dues have been restructured. Member dues run on a calendar year, January 31—December 31. Although it may be an increase to those who do not renew by January 31st each year, it's actually an opportunity to renew during the first month of the year at the old price.

Any REGULAR or FAMILY member who pays his/her dues before the January 31st deadline may discount \$5. Those renewing after February 1st will pay:

Junior members	\$2.00
Regular Members	\$20.00
Family Members	\$30.00

See Membership Application on page 13 for full details.



Lapidary Group—Fun for All Ages

By Betty Cain

The CSMS Lapidary Group is fun and educational for all ages and levels.

At the Nov. 11th meeting, brothers Ryan and Nickolas Weiss were wide-eyed and couldn't wait to try their hand at shaping and polishing those ugly old rocks and transforming them into the beautiful items that Drew Malen, leader of the Lapidary Group, had told them was waiting just beneath the surface.



After a lesson on safety and machine operations, the boys jumped right in, cold water and all, and began to grind away on their stones.



It didn't take long for the youngster to get the hang of it and begin working like pros. They grinded, shaped and polished away, moving from wheel to wheel, and experimenting for the best look.

Ryan, the oldest, worked on a piece of chrysanthemum stone while little brother, Nicholas, worked at refining a piece of Pikes Peak granite. What quick studies the boys were.



It wasn't long before

they had some real treasures to show mom!



I asked their dad, Robert Weiss, how he had learned of our Lapidary Group. He told me they had visited our last show and learned of all the activities in which his boys could become involved. They read the

Pick&Pack every month with anticipation.

Welcome Robert, Ryan, and Nickolas; we hope you enjoy many more fun activities with CSMS. Keep

up the good work, boys. It won't be long before you'll be impressing all your friends with great 'rock-hounding' stories and a great collection! Maybe you could do a display case at our next show, hmm?



Happy Holidays

Lapidary Show & Tell



Barbara Bernard brought her 'leftover' cabochons from a recent craft show where she had sold all but these two necklaces. She had mounted her cabs in beautiful beadwork that she said took about 4 hours each to make.

Co-Editor's Note: That lipedolite piece would make a great Christmas gift—are you listening Santa? Perhaps Barbara will have a member table at the silent auction.

CSMS members share their treasures and the flat lap at the monthly Lapidary Group meeting. Whether it's polishing a rock sample or a dinosaur specimen, there's room for all.



which cause them to be highly fluorescent with a distinct bright green tint under short-wave ultraviolet light.

Types of Opal

Opal has more than one hundred varieties and trade names, including common (non-precious) or colorless (hyalite) opal. The most important and widely known variety is precious opal, a gemstone. Precious opal displays a brilliant rainbow of colors. This rich play of color is due to the microscopic silica spheres found in all opals. In precious opal the minute spheres are uniform in size and packed into a regular array so that they scatter light (diffraction) in various colors (O'Neil, 1983). Common opal, which can occur in a variety of colors, does not show this iridescent play of color. Color modifiers (white, black, pink, and blue), which describe the body color of the opal, may subdivide precious opal even further, such as white and black precious opal from Australia and blue precious opal from Arizona. Precious opal is usually cut as a cabochon or carved. With its play of color ranging from orange-yellow to red, the fire opal, another gem opal, is sufficiently transparent to be faceted.

Precious Opal Body Colors and Their Causes

Color	Description	Cause
Black	A black or dark background in gray, blue, or green	Dark inclusions
Fire	Transparent or translucent with Yellow, orange, red or brown play of color	Ochre-colored iron oxide in inclusions
Water	Transparent or colorless	Few or no inclusions
White	A white background	Internal boundaries or fluid inclusions

Cripple Creek Opal Deposits

Several varieties of opals were deposited in vugs (open spaces) during the last phase of vein formation during the mineralization event that took place in the Cripple Creek area (Lindgren and Ransome, 1906). Cripple Creek miners, while searching for gold during the late 1890s, discovered opal deposits. The miners, not sure what the opals were, called them jasper. Hyalite, the colorless opal, was found in dike fissures at the Anaconda mine. At the Victor mine, the miners dug out white, brown, and brilliant red opals. Miners, working deep underground, encountered precious opals in the Buena Vista mine a century ago (Cross and Penrose, 1897). The most unusual opal deposits occurred in huge yellow masses of entangled wires and rods in the Zenobia mine (Lindgren and Ransome, 1906).

Today white or common opal can still be found on the dumps of the Star of the West mine and other localities on Mineral Hill in Cripple Creek. An unusual specimen was recently found on Mineral Hill that was a combination of both common and fire opal. This unique specimen, encrusted with minute turquoise nodules, displayed a brilliant red to orange fire (Rich Fretterd, Pers. Com, 1998). There remains little doubt that there are other unusual mineral treasures, just waiting to be found, on Mineral Hill.

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Annual Banquet

Installation of Officers for 2007

Thursday, January 18, 2007



The SilverWood Hotel & Conference Center
505 Popes Bluff Trail
Colorado Springs, CO 80907
719-598-7656

The banquet will start at 6:00 PM with a reception and cash bar. Dinner will follow at 7:00 PM. *The business/presentation portion of the program will begin at approximately 8:00 PM.*

Beef/Chicken combination plate will be the entrée; no dinner choice will be necessary. A vegetarian meal is available.

Pre-registration for the dinner portion is required. Please send your check and completed registration form by January 4, 2007.

The dinner portion of the meeting is strictly optional. The club invites all members to attend. We will have extra tables available for members who want to attend the program/meeting without attending the dinner. The cash bar will be open through dinner and a short time prior to the meeting and presentation. All members and guests are invited.

We have a special presentation by Pete Modreski, U.S. Geological Survey and CSMS member, "The World's Greatest Mineral Locality".

You are cordially invited to join us for this fun event!

Registration form on the next page.



Colorado Springs Mineralogical Society
2007 Banquet Registration
January 18, 2007



*The SilverWood Hotel & Conference Center
505 Popes Bluff Trail
Colorado Springs, CO 80907
719-598-7656*

Name(s) _____

Phone #: _____

Number of Beef/Chicken Dinners: _____

Number of Vegetarian Dinners: _____

Total Number of Dinners: _____

x \$15.00

Total Enclosed _____

Send checks made payable to **CSMS** only along with this registration by 1/4/07 to:

Drew Malin, President
3085 Rhapsody Dr.
Colorado Springs, CO 80920

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://cafescicolorado.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.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.

2006 CSMS Silent Auction

SilverWood Hotel, 505 Popes Bluff Trail, CS, CO

December 9, 2006

10:00 AM TO 3:00 PM

**** New Items Every 20 Minutes ****

New Feature—Member Tables

There are still tables available



**** Homemade goodies to please the palette ****

**PROCEEDS TO BENEFIT REGIONAL SCIENCE FAIR AND CSMS
SUBGROUPS**

Great gift ideas at Silent Auction prices!!

<p>DICK'S ROCK SHOP</p> <ul style="list-style-type: none"> • Natural Stone Heads • Natural Stone Eggs • Exotic Wood Pine Sets • Mineral and Fossil Specimens • Precious and Semiprecious Gemstones • Gold and Silver Jewelry • Natural Stone and Wood Bookends <p>Cube/Slabs Lapidary Equipment Silversmithing Equipment</p> <p>Diana Wing - Owner 719-390-7788 www.DicksRockShop.com dwing@dicksrockshop.com</p> <p>7310 S. Highway 85/87 • Fountain, Colorado 80817</p>	<p>KRYSTALS</p> <p>Gems Minerals Jewelry Crystal Skulls by Appt. Only 719-531-7203</p> <p>Joe & Marylee Swanson Colorado Springs, CO Krystals@webtv.net</p>
<p>(719) 633-1153</p> <p>Ackley's Rocks & Stamps</p> <p>RHONDA JO HART ART & HELENA ACKLEY OWNERS</p> <p>3230 NORTH STONE AVE. COLORADO SPRINGS, CO 80907</p>	<p>Minerals Fossils Artifacts Books Beads Custom Jewelry & Repair Rough Turquoise</p> <p>Claim Jumper's Rock Shop Boyde Astemborski, Owner (in the penny arcade)</p> <p>14 ARCADE (719) 685-5136</p>
<p>GRAND INCLUSIONS ROCK SHOP</p> <p>*MINERALS *ANTIQUE BOTTLES *ARTIFACTS *CRAFTS</p> <p>RANDY STAPLETON 2306 E. PLATTE 719-347-2195 SAT, ONLY 10-5</p>	<p>Steve & Peggy Willman - Minerals Sangre de Cristo Gallery</p> <p>114 Main Street, Westcliffe, CO 81252 email: gallery@ris.net 719-783-9459 Fall Hours: Friday & Saturday 10:00 to 5:00</p> <p>Collectable minerals, fossils, crafts & local artists</p>

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
DECEMBER 2006 — CSMS CALENDAR					1	2 12n Lapidary Mtg
3	4	5	6	7 7p Board Mtg	8 7:30p Crystal Study Grp Mtg	9 10a-3p <u>Silent Auction & Bake Sale</u>
10	11	12 6:30p Micro-mount Party	13	14	15	16
17	18 7P Faceting Group Mtg	19	20	21 6:30 Show Meeting 7:30p General Meeting	22	23 Pick&Pack Deadline
24	25 Christmas	26 No Camera Club Mtg in Dec.	27 No Fossil Grp Mtg in Dec.	28	29	30
31	1 New Year					

Locations

Board Meeting: 1st Thursday @ 7:00p. SilverWood Hotel
Drew Malin: 531-7594

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

Crystal Study Group: 2nd Friday @ 7:30p, 1514 North Hancock, COS;
Kerry Burroughs: 634-4576

Jewelry Group: Meets on informal basis; if interested, contact Rick Copeland: 594-6293 or Bill Arnsen: 749-2328

Faceting Group: 4th Monday @ 7:00p, Various Locations
David Wilson: 635-7891
dlwilson@pcisys.net

Fossil Study Group: Next Meeting in January, 2007, John Harrington: 599-0989

Lapidary Group: 1st Saturday @ Noon 3085 Rhapsody Drive, COS. **No meetings in August or September.**
Drew Malin: 531-7594

Micromounts Group: 6:30 p Christmas Party, The Landing at the Satellite Hotel, 411 S. Academy; contact Dorothy Atlee 573-0757

Refreshments for General Assembly Meeting

December=**Everyone** January=Banquet February=Lapidary

President	Drew Malin	531-7594	advanceone@adelphia.net
Vice President	Linda Laverty	520-5939	chilipepper24@juno.com
Secretary	Rick Copeland	594-6293	rick.copeland@covad.net
Treasurer	James Bushnell	598-9262	bushy@pyramidpeak.com
Membership Secretary	Vacant		
Managing Editor	Bill & Betty Cain	634-8205	bcain2@earthlink.net
Member-at-Large	John Casto	329-0912	Jcasto@fvs.edu
Member-at-Large	Brent Williams	632-3552	zaphod1863@yahoo.com
Past President	Robert Landgraf	687-3195	RMLWP74@aol.com
Show Chairperson	Kaye Thompson	636-2978	
Field Trip Director	Brent Williams	632-3552	zaphod1863@yahoo.com
Librarian	Sarah Udell	237-7983	sarahudell@hotmail.com
Camera Club	Roger Pittman	683-2603	prpittman@netzero.com
Crystal Study	Kerry Burroughs	634-4576	kburroughs@adelphia.net
Faceting Group	Dave Wilson	635-7891	dlwinlson@pcisys.net
Fossil Group	John Harrington	599-0989	harrington1@mindspring.com
Jewelry Group	Rick Copeland	332-7915	rick.copeland@covad.net
Lapidary Group	Drew Malin	531-7594	advanceone@adelphia.net
Micromount Group	Phil McCollum		acc@frii.com
Pebble Pubs	Vacant		

COLORADO SPRINGS MINERALOGICAL SOCIETY

Minutes, General Assembly

November 16, 2006

Drew Malin, President, called the meeting to order at 7:35 p.m.

Minutes of the previous meeting were accepted as published.

Treasurer's Report

Jim presented the 2006 Show results (complete with slide show!).

Satellite Groups

Camera, Crystal, Faceting, Fossil, Jewelry, Lapidary, and Micromount group leaders announced dates, locations, and programs for next month.

Field Trips - No report.

Old Business

- White Buffalo (Chinese Auction) for December's General Meeting. Bring a wrapped mineral-oriented gift with value of \$5 to \$10. Question? Contact Ray Berry or Linda Lavery.
- 2007 Show—Dealer contracts were sent out. Received 7 positive responses so far.
- Silent Auction—December 9—need donations. Still have 4 member tables left. (*Don't forget to bring items for the Bake Sale!*).
- Constitution revisions—tabled until next meeting.
- Election of Officers—tabled until the December meeting.

New Business

- Ackley's Rocks & Stamps has Lazard Cahn and Leonard Sutton collection. Accepting offers.

The general meeting was adjourned at 7:55 p.m., refreshments were enjoyed, followed by the movie, "Gemstones of the World".

The Junior Cash Award at the 2007 AFMS/RMFMS Show

By Diane Weir, Junior Chairman

Rocky Mountain Federation News, Dec 06

There is still five months ahead for juniors to get out into the field and collect a specimen for entry into the Junior Cash Award. This program is so easy that almost every youngster can participate. The rules are simple:

1. The specimens must be collected by the junior.
2. He/she must prepare it for exhibit.
3. He/she must make a label with the name of the materials and where it was found.
4. The junior must get the specimen to the show. THE JUNIOR DOES NOT HAVE TO BE PRESENT AT THE SHOW. Any club member can bring the entry.
5. The junior must fill out the registration form and send it in to the Junior Chairman prior to the show.

All entries will be judged by a panel of judges who will decide the winners. One will be for the ages of juniors up to the age of twelve, and the other for juniors thirteen through seventeen. Both winners will receive a check for \$25 from the Federation. In addition, all who enter will receive a certificate along with some other goodies.

Diane Weir, Junior Chairman
2300 S. Union Avenue
Roswell, New Mexico 88203
(505) 622-5679 dcweir@dfn.com

Joy^{to the}
World





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 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.
- 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	<input type="checkbox"/>	YES	<input type="checkbox"/>
YOU ARE PAYING FOR THE YEAR					WHEN		
				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	All Members	New Member	
	Before Jan 31	After Jan 31	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 <i>Please check ALL that apply</i>			
CRYSTALS <input type="checkbox"/>	MICROMOUNTS <input type="checkbox"/>	FOR FAMILY MEMBERS, PLEASE LIST CHILDREN AND AGES	
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 <i>Clubs are made up of volunteers!</i>			
ARTIST <input type="checkbox"/>	WRITING <input type="checkbox"/>	EDITOR <input type="checkbox"/>	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.
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"/>	
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

Bill & Betty Cain, Editors



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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. **Visitor 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 Study Group, Jewelry Group, Lapidary Group, Micromounts Group, and Pebble Pups. For details of 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 and Industry*, a year of learning and enjoyment, plus a lifetime of memories.

Individuals—\$15 (paid by 1/31) Family—\$25 (paid by 1/31) 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.