



PICK & PACK

THE BULLETIN OF THE COLORADO SPRINGS MINERALOGICAL SOCIETY Published Since 1960

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CSMS is an incorporated nonprofit organization with these goals:

- To promote and disseminate knowledge of the earth sciences, especially as they relate to mineralogy, lapidary, and fossils
- To encourage study, collection and fashioning of minerals.
- To accomplish the same through social meetings, lectures, programs, displays, shows, and field trips.
- The Pick & Pack is published monthly to assist and promote the above.

The Arkansas Field Trip

A trip to heaven and back

Roger Pittman

The CSMS field trip to Arkansas was fun and successful. We started out by heading to Cherokee, Oklahoma, where we collected selenite at the Great Salt Plain State Park. The park staff rotates the collecting area each year, and this year we were as far north as you can get in the collecting area. We found both hourglass singles and groups. The weather was cool and damp with light showers.

We then drove to Mt. Ida and contacted GW of GEE & DEE Crystals. We met at his rock shop early Tuesday morning and headed to the mine. After a short MSHA hazard training session, we began searching for crystals. We didn't go far before we were filling our collection bags with singles as clear as glass and a few twins. The crystals are embedded in layers of sedimentary rock that were fractured during the uplift of the Ouachita Mountains. Hydrothermal waters carried the quartz into the cracks. We had been told to bring sledge hammers and crack

See *Field Trip* on page 4



Roger and a small plate of Arkansas quartz crystals. © Roger Pittman 2005

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CSMS & RMFMS Show Preview

An action-packed weekend right around the corner

The CSMS annual Gem and Mineral Show promises to be a big winner. This year's show will take place June 17-19 at the Phil Long Expo Center in north Colorado Springs. The show will be held in conjunction with the Rocky Mountain Micromount Symposium and the Rocky Mountain Federation of Mineralogical Societies Convention and Show.

This year's theme is *Pikes Peak: A Rockhound's Paradise*. Special exhibitions include a collection of silver kochinas with turquoise, two Slim Rail model trains and an Oviraptor from the Dino Museum in Woodland Park. The Denver Museum of

Nature and Science will display a case, and the New Mexico School of Mines will show a collection of minerals from New Mexico.

Cases with a local connection include a selection of Colorado minerals exhibited by Barbara Muntyun, Colorado minerals by Brian Lees of Collector's Edge and a CSMS case of fluorescent minerals.

The micromount symposium will be held on Saturday, June 18 at the Expo Center. Lectures include *Montana and Wyoming Micro Mineral Collecting Area* by Tom Tucker and *Microprobing Minerals* by Paul Hiava.

Additional presentations include *How to*

See *Show* on page 3

Proud Members of:

American Federation of Mineralogical Societies (AFMS)

Rocky Mt. Federation of Mineralogical Societies (RMFMS)

Colorado Federation of Mineralogical Societies (CFMS)

Colorado Springs
Mineralogical Society

Founded in 1936



Lazard Cahn

Honorary President

PICK & PACK

Our Staff...

Ethan A. Bronner *Managing Editor*
Cindy Bronner *Assistant Editor*

Robert & Naoko Murphy *Mailers*

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 E-mail it. Format does not matter. All submissions are welcomed.

DEADLINE for items to be included in the next month's issue is the fourth 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. All photos will be returned. Electronic photos should be submitted at resolutions above 200 dpi in TIFF or PICT format.

Articles:

Mail, E-mail, or fax to the address and numbers below. ALL FORMATS ARE WELCOMED.

E-mail:

CSMSpickANDpack@msn.com

Address:

1025 East Boulder Street
Colorado Springs, CO 80903

Phone & Fax:

(719) 448-9949

For faxes no precalls are required.

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PRESIDENT'S CORNER

Spread the word: the show's in town!

Countdown begins

Drew Malin



It's that time of year again. This will be the last P&P issue before our annual show. There's a lot to do, as we all know, but the most important task now is to **get the word**

out! Word of mouth is a great way to advertise the show. Tell everyone at work, at school and everywhere else you go!

The monthly meeting will be held on the second Thursday in June, that's June 9, at 7:30 pm as usual. We will be using the meeting to fine tune the volunteer sign up and other details of the show. We will have the new postcards available for members to pass out. The last week before the show should be the best time to distribute these flyers.

This year promises to be our best and biggest show ever. In addition to the ever popular Mr. Bones and Gold Panning, this year we will have a full-size Oviraptor dinosaur specimen provided by our friends at the Dinosaur Resource Center, as well as two 35-40 foot train dioramas from the Slim Rail Model Railroad Club. Add these new exhibits to our Children's Gem Cave, Silent Auc-

tion and expanded display case area, and it's shaping up to be a show we can all be proud of. We will also have a full slate of distinguished speakers and three days of great field trips after the show.

This year's media advertising will include The Gazette, direct mail and KKCS Radio. KKCS will be running our ads and giving away tickets for the week leading up to the show, and will be doing a live remote broadcast from the show on Sunday.

We had two great field trips since the last issue. Thanks to Ray Berry and Richard Strecker for hosting a great dig on their CSMS claims; it was a beautiful day and everyone had a great time. Also, thanks to all those who attended my creek walk.

Now that summer is here and everyone has had a chance to look at their schedules, I'd like to again encourage some more people to sponsor field trips. If you have an idea for a field trip, contact Brent at zaphod1863@yahoo.com.

I hope everyone is working on their display cases for the show; the more we have, the better. Once again, I want to encourage everyone to get out there and promote our show, and thanks again to all the members who have put in so many hours to make this show a success.



The June General Assembly

A discussion of show issues: June 9th

The June General Assembly has been scheduled for the second Thursday of the month. Since set up for this year's show will be taking place on our regular meeting night, it was necessary for us to move our meeting back by one week.

This month's meeting agenda will be nothing but show issues. Any members who are interested in volunteering at the show or have questions should attend. This will also be a good chance for our members to get a review of the exciting events that will be in conjunction with our normal show. These include the Rocky Mountain Federation events and the Micromount symposium.

This month's meeting should prove to be both productive and informative.

June 2005 General Assembly
Thursday, June 9, 2005, 7:30

Colorado Springs Senior Center
1514 North Hancock Blvd.

in the EXERCISE ROOM

May's refreshments courtesy:
Jewelry Group



Show*Continued from page 1*

Start a Mineral Collection by Pete Modreski, and *Amazonites and Friends* by Barbara Muntyan. Jack Thompson will present *Looking at a Lazard Cahn Collection* and Ron Gibbs will give a talk on *Mineralogical Journeys*.

Other activities include three scheduled Micro Mineral Sale and Swap sessions, and the CSMS Silent Auction.

Children will enjoy the kid's area again, and Mr. Bones will be back to thrill visitors.

Sunday's presentations will start with James Hurlbut presenting *Diamonds of the Paul Seel Collection*, followed by Larry Havens talking about the Denver Museum of Nature and Science's micro collection and Michael Wise presenting *Geology of U.S. Gemstone Pegmatites*. The presentations are rounded out with Jack Thompson's rendi-

tion of *Old Prospectors—Gold, History, Myth and Mystery*.

An additional feature of the RMFMS convention is the Awards Banquet and installation of officers to take place Saturday night at Howard's Pit BBQ. Guest speaker Michael Wise, Pegmatite Mineralogist from the Smithsonian Institution National Museum of Natural History, will present *Emerald Deposits of Hidden, North Carolina*. Reservations are required. Contact Roger Pittman at 719-683-2603.

Field trips are scheduled for the week following the show. Locations include Hartsel and Canon City for beryl and peridot; Florissant for fossils; and Gold Camp Road for quartz crystals, amazonite and zircon. Details are listed in the sidebar on page 8.

Up-to-date details can be found on the CSMS website: www.csms.us.

**Minutes...***May 19, 2005*

Drew Malin called the meeting to order at 7:35. Minutes accepted as published in the Pick-n-Pack.

Satellite Groups:

Camera, crystal, faceting, fossil, lapidary, micromount, and jewelry group leaders announced dates, meeting locations and program for next month.

Field Trip:

Field trip to CSMS claim. Bring your lunch, water, pick, shovel, old screwdriver, and collection bag. If you want to go collecting on your own, contact Ray Berry or Dick Strecker. Trail in is 4 wheel drive, high ground clearance only. Reserve the right to limit access to people who can get in and out safely. Hand tools only; no explosives.

Show Report:

- Sign up sheet for volunteers.
- Award banquet, Saturday, 6:30, Howard's Bar-B-Q. \$21.00 all you can eat.
- 36 vendors signed up.
- Model trains, oviraptor, Mr. Bones, and Colorado Gold Panners coming.
- Volunteers and speakers get free admission.
- Lecture area to be soundproofed.
- Field trips after the show, Monday—Hartsel for Barite also Canon City for Peridot. Tuesday—Gold Camp Road. Wednesday—Florissant Fossil beds. Details on website.
- More post cards were printed and available.

Old Business:

- Next meeting June 9.
- Member's directory in process.
- Anyone who has a CSMS case needs to return it.

New Business:

- Framed copies of pictures presented to members who donated their minerals to CSMS advertising.
- Member name tags available at Blue Ribbon Trophies, 4911 North Park Drive, \$5.

The general meeting was adjourned at 8:07 followed by an informative presentation by Pete Modreski on *Colorado Topaz*.

List of Show Vendors

39 dealers and 118 tables:

Annya
 Arnson's Creative Design
 Bad Boys of Cripple Creek
 Carroll Originals
 Claim Jumpers
 Colorado Nuggets
 Rick Copeland
 Costigan's Minerals West
 D&J Rare Gems
 Dan's Used Rocks
 Diamond Pacific Tool Corp.
 Earth Works
 Ebersole Jewelry and Lap
 Extinctions, Inc.
 John Garsow
 Geodysey
 Glasier Peak
 Hewin's Minerals
 Leonard Himes
 Krystals
 Laughing Willow Creations
 Sherm Marsh
 Morgan Trinkets
 Natural Expression
 Nevada Minerals and Books
 Robert Ostrofsky
 Dale Plume
 Ken Porter
 Rick's Rock Shop
 Rock of Ages
 Sangre De Cristo
 Shoron's Beads
 Terrestrial Treasures
 Wright's Gems
 Terry Zundell
 Lazzi Gems and Beads
 High Country Gems
 Lane Jewelers
 K&M Enterprises

Your Club Needs YOU!

You probably have already read the article on the front cover, *CSMS and RMFMS Show Preview*. This year's show is lining up to be an exciting event. Obviously, an event this size requires a lot of support from our members. This year, the show will run three days, as it is also the Rocky Mountain Federation Show and Convention. Thus, our volunteer needs are even greater this year.

The Colorado Springs Mineralogical Society is made up of more than 200 members, each one benefitting from the exciting opportunities that this club offers.

Each year's show largely helps this organization reach its goals (see sidebar on page one for a list of the goals). Along with this, the show also produces the revenue that helps us keep our dues low (your annual dues only cover the cost of your Pick and Pack and your insurance for field trips) and still meet our financial requirements.

Now is the time for members, all of whom benefit from the plethora of exciting opportunities that the CSMS offers, to volunteer their time to help keep this organization moving forward.

All that is asked of you is TWO HOURS of volunteer time at the show. We need everyone to help it be successful and to help us reach our goals. Two hours is less time than most club-sponsored field trips last. Every member should be able to spare this much time to give back to this organization that gives every member a lot in return.

The bonus: Every member that volunteers for two hours gets free admission to all three days of the show. Non-volunteering members must pay the full admission price.

In the sidebar on page 5 is a list of areas where we need volunteers. To sign-up, call Lorrie Hutchinson at 382-3503. She will assist you in finding a category and a time that will work for you. Times and dates are first-come-first-serve. If you volunteer, please remember to keep your commitment; we will be counting on you.

The CSMS wants to thank in advance everyone who chooses to help make this year's show a success.

Field Trip

Continued from page 1

hammers, and those were the tools we used! All too soon, five o'clock rolled around, and we had to leave the mine. GW had in-



Bob King digging Selenite Crystals © Roger Pittman 2005

gated us to come into Mt. Ida to watch his blue grass band practice for their first concert of the season. We enjoyed the concert, and all too soon the practice was over.

Early Wednesday morning we headed into town to check out the shops. It pays to shop around; there is a huge difference in pricing from one shop to the next. We found one shop that is owned by another mine owner with very good prices and were debating whether or not to go dig at his mine when my phone rang. GW was calling. We had had mostly seniors, he said, and he had forgotten to give them the senior discount. If we wanted to come back today, they could dig for free.

So off we went, and what a day we had. Bob King pulled off a layer of rock and there were quartz crystals everywhere. We all gathered around and dug nearby. Everyone

got nice crystals. Again, five o'clock rolled around all too quickly, and it was time to go.

Thursday we split up. Some members headed home, and Bob and I headed for Coleman's, about 45 miles to the north-east. We checked out two Coleman brothers shops and debated whether we wanted to check out their dumps. Just then, a half dozen school buses pulled up and turned a few hundred kids loose on the dumps. We decided that we were too tired to compete with all that youth, and headed for home.

As we traveled, Bob informed me that he also collects fire hydrants. As we passed through the city of Ness, Kansas, it was obvious that they were in the process of changing a number of hydrants. We stopped at the water department, where we were told to help ourselves to the hydrants. The hydrants were still attached to valves and lengths of pipe. While Bob broke the cast iron pipes, I headed back into town to get a hacksaw to saw through the 1 1/4" steel shafts.

We discovered that this scrap iron pile had become home to a number of six-foot bull snakes, and they were not happy that we were intruding into their territory. We'd chase them off, and they'd be right back. We finally got four loaded up. In the process of buying hacksaw blades, we had located a limestone

fence post that we could get just for the taking. Seven hours later we were back at my house and loaded two hydrants into Bob's Bravada. Bob spent the night at his daughter's house in Colorado Springs, then headed back to Cheyenne, Wyoming. His car sat a couple of days before he had the energy to unload it. He had promised a hydrant to a friend, who took it home and discovered another six-foot bull



Roger Pittman, Jack Thompson, and Bob King.

snake had hitched a ride inside the hydrant.

Besides the enjoyable digging, we drove through incredible scenery: emerald green forests, green waves of wheat, colorful birds and abundant wildlife. The trip would have been worth it even if we had been skunked collecting.

The author is a member of the CSMS.



CURRENT EVENTS

Truth and Some Consequences - 2

New fossil bill in Congress

John Spunaugle, AFMS Conservation & Legislation Chair

As expected, a new fossil collecting Bill "Pale-ontological Resources Preservation Act" has been introduced into the U. S. Senate. It is listed in the 109th Congress as Senate Bill S 236. Senators introducing this Bill were **Mr. Akaka** (for himself, **Mr. Baucus**, **Mrs. Feinstein**, **Mr. Durbin**, **Mr. Roberts**, and **Mr. Inouye** . A quick review of the Bill as introduced suggests that it is very similar to a Bill that U. S Senate passed by unanimous voice vote in the 108th Congress in 2003 (S 546/HR 2416).

Some definitions used in this Bill are:

1) **Casual Collecting** - The term 'casual collecting' means the collecting of a reasonable amount of common invertebrate and plant paleontological resources for non-commercial personal use, either by surface collection or the use of non-powered hand tools resulting in only negligible disturbance to the Earth's surface and other resources. As used in this paragraph, the terms 'reasonable amount', 'common invertebrate and plant paleontological resources' and 'negligible disturbance' shall be determined by the Secretary.

(6) **Paleontological Resource** - The term 'paleontological resource' means any fossilized remains, traces, or imprints of organisms, preserved in or on the earth's crust, that are of paleontological interest and that provide information about the history of life on earth, except that the term does not include—

(A) any materials associated with an archaeological resource (as defined in section 3(1) of the "Archaeological Resources Protection Act of 1979" (16 U.S.C. 470bb(1));

OR

(B) any cultural item (as defined in section 2 of the "Native American Graves Protection and Repatriation Act" (25 U.S.C. 3001)).

Section 5,

"Collection of Paleontological Resources" requires a permit to collect with a few exceptions.

a) Permit Requirement-

(1) **In General** - Except as provided in this Act, a paleontological resource may not be collected from Federal lands without a permit issued under this Act by the Secretary.

(2) **Casual Collecting Exception** - The Secretary may allow casual collecting without a permit on Federal lands controlled or administered by the Bureau of Land Management, the Bureau of Reclamation, and the Forest Service, where such collection is consistent with the laws governing the management of those Federal lands and this Act .

(3) **Previous Permit Exception** - Nothing in this section shall affect a valid permit issued prior to the date of enactment of this Act .

Section 6,

"**Curation of Resources**" requires paleontological resources to be deposited in an approved repository.

"Any paleontological resource, and any data and records associated with the resource, collected under a permit, shall be deposited in an approved repository. The Secretary may enter into agreements with non-Federal repositories regarding the curation of these resources, data, and records".

Penalties: The Bill provides for penalties, both criminal and civil for violation of the act. Criminal penalties can go up to 10 years in prison and/or fines as determined in Title 18 of the penal code. Civil penalty amounts are to be deter-

CSMS Show Volunteer Opportunities

We need a lot of help to make the show a success. All volunteers who give two hours of their time will receive free admission to the show for all three days. Contact Lorrie Hutchinson, 382-3503, to sign up for a volunteer shift.

- **Set up:** Thursday @ 10:00 AM until done

- **Hospitality:** 2 hour Shift

- **Rovers:** 2 hour Shift

- **Kids' Area:** 2 hour Shift

- **Silent Auction:** Please contact Ilona Vogt at: 391-9638.

- **Clean Up:** Sunday, 5:00 PM till done

International Directory of Micromounters

The Baltimore Mineral Society, sponsor of the annual Desautels Micromineral Symposium and Micromounters Hall of Fame, is pleased to announce the availability of the 20th edition of the International Directory of Micromounters.

The cost per copy is \$6 plus postage of \$2.50 for up to 3 copies mailed to the same U. S. address. For foreign addresses, visit the BMS website <<http://edisk.fandm.edu/mike.seeds/BMS.htm>>.

The directory lists those interested in micro-minerals from around the world and is a useful tool for those who wish to contact others in the field. It also lists micro-mineral clubs, museums housing micromount collections and annual micromineral symposia.

Copies can be obtained by sending a check, payable to "Directory of Micromounters" to Carolyn Weinberger, PO Box 302, Glyndon, MD 21071-0302.

See Show Vendors on the Web

Geodyssey - <http://www.geodyssey-rocks.com/>

D&J Rare Gems -
www.djraregems.com
www.gemaholics.com

High Country Gems -
www.attawaygems.com

Great Websites for Kids

Jim Brace-Thompson, AFMS Junior Activities Chair, has put together a list of websites for kids (and adults, too). Here are the highlights.

Fossils:

www.isgs.uiuc.edu/dinos/
www.paleoportal.org

Minerals and Earth Resources

www.usgs.gov
www.mii.org
www.womeninmining.org
www.theimage.com

Lapidary Arts

www.rockhounds.com
Socrates.berkeley.edu/~eps2/
www.tradeshop.com/gems/

Museums

<http://www.lib.washington.edu/sla/natmus.html>
Paleo.cc/kpaleo/museums.htm
www.amnh.org/education/resources/

To receive the complete listing, e-mail Jim at jbraceth@adelphia.net.

mined by regulations issued by the Secretary of Interior or the Secretary of Agriculture.

- (a) In General- A person may not—
- (1) Excavate, remove, damage, or otherwise alter or deface or attempt to excavate, remove, damage, or otherwise alter or deface any paleontological resources located on Federal lands unless such activity is conducted in accordance with this Act;
 - (2) Exchange, transport, export, receive, or offer to exchange, transport, export, or receive any paleontological resource if, in the exercise of due care, the person knew or should have known such resource to have been excavated or removed from Federal lands in violation of any provisions, rule, regulation, law, ordinance, or permit in effect under Federal law, including this Act ; or
 - (3) Sell or purchase or offer to sell or purchase any paleontological resource if, in the exercise of due care, the person knew or should have known such resource to have been excavated, removed, sold, purchased, exchanged, transported, or received from Federal lands.
- (b) False Labeling Offenses- A person may not make or submit any false record, account, or label for, or any false identification of, any paleontological resource excavated or removed from Federal lands.

Rewards for persons providing information used in connection with a conviction of a violation of the Bill are also provided for.

The previous Bill introduced in the 108th Congress was called a "Bad Bill" by many, and I would expect this version to get an equally "cold" reception.

Permits Required to Visit Public Lands

There has been some discussion lately about permits being required to use or visit public lands. Some of the reports are accurate and some not. I thought it might be time to talk about

the facts around this issue.

It is true that Congress, in late 2004, passed the Federal Lands Recreation Enhancement Act by adding this legislation to a general appropriations Bill (HR 4818). It was signed into law as Public Law 118-447 in November 2004. The new law authorizes the land management agencies (National Park Service, U.S Fish and Wildlife Service, Bureau of Land Management, and U.S Forest Service) to charge (1) a standard amenity fee, (2) an expanded amenity fee, and (3) a special recreation permit fee. An entrance fee for lands managed by the National Park Service is also authorized.

Amenity fees may be charged in National Conservation Areas, A National Volcanic Monument and a destination visitor or interpretive center as well as an area that provides significant opportunities for outdoor recreation that has substantial Federal investments, where fees can be effectively collected, and that contain all of the following amenities: Designated developed parking; a permanent toilet facility; a permanent trash receptacle; an interpretive sign; an exhibit, or kiosk; picnic tables; and security services.

Under the heading of Special Recreation Permit fees may be charged for group activities, recreation events and motorized recreational vehicle use.

The Federal Land managers must publish a public participation opportunities in the Federal Register when establishing any new permit requirements under this new Law. Special Permit Advisory Committees are also authorized.

The current law authorizing fees/passes/permits is an outgrowth of a 1996 law that authorized demonstration pilot fee programs in several parts of the country. To facilitate the issuing of passes, one pass has been introduced which may cover them all, The America the Beautiful Pass. The agencies involved have only just begun to provide information about this and other "passes" authorized under the new law. Some information is already found on the Internet but it is sketchy.

We will try to keep you informed, as information is available. We'll talk again.

Source: AFMS Newsletter - May 2005, page 3



Minerals of the Wrong Feather Don't Flock Together

You can't make chocolate cake without chocolate

Dr. Bill Cordua, University of Wisconsin - River Falls

Most rockhounds know that minerals are identified by their physical and chemical properties. Many also know that an important clue in mineral identification is association—certain minerals are often found together. For example, malachite often is found with copper, and gold is often found embedded in quartz. What many don't realize is that another important identification clue is that many minerals are NOT found together. For example, lazurite, sodalite, and corundum are never found associated with quartz. As another example, beryl does not occur with dolomite in our local limestones. Well, why not? Doesn't that seem a bit arbitrary? Isn't "never" sort of a strong term to be used by a scientist. It turns out that there are good chemical reasons why this is so.

In some cases, it is simply a matter of a particular rock type not having the needed chemicals to make the minerals. There is no chemical incompatibility between dolomite and beryl, yet we don't find beryl in limestone. Why not? In order to make beryl, you need to have beryllium, a chemical present in, at best, trace amounts in most limestones. By analogy, you can't make a chocolate cake with no chocolate, no matter how hard you try. The fact that chemicals tend to segregate in certain places in our earth leads to the commonly observed mineral associations. Certain granites have lots of beryllium in them; it's an element that tends to accumulate in such magmas. Thus, beryl is found in granites, along with the typical quartz, feldspar, mica and tourmaline.

In other cases the mineral won't form because the proper temperature, pressure or other geochemical conditions (such as acidity) were not achieved in the rock. For example, diamond won't form in a rock unless certain conditions are met.

In yet other cases, there is a true chemical incompatibility. It is because of this that quartz is never found with olivine, corundum, sodalite or lazurite. These minerals are just not chemically stable together. Does this mean if you

put a piece of corundum next to a piece of quartz that they'll explode? Of course not. The point is that the two minerals will simply not form together in the same environment. If corundum forms, quartz won't form and vice versa. The reason is that corundum forms only in a low silica environment, but quartz only in a high silica one.

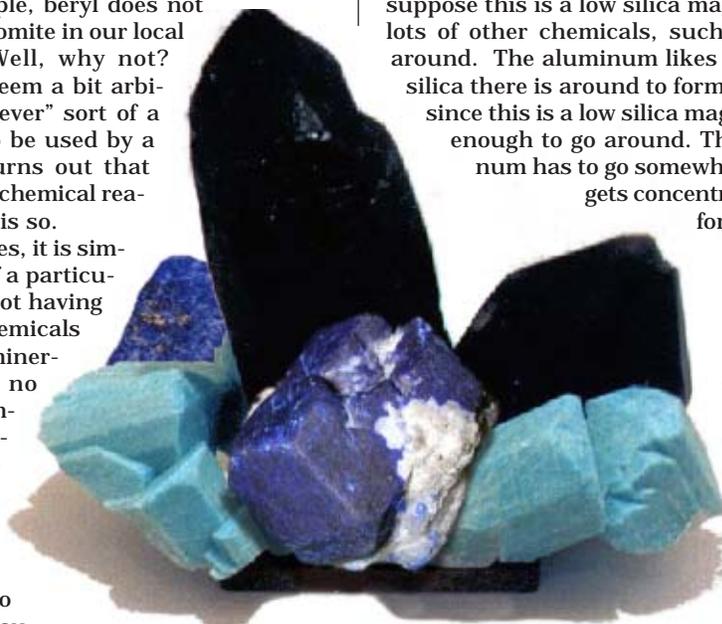
Let's consider a hot magma. There are no minerals in the magma - only loose atoms darting around. As the magma cools, these atoms begin to bond together to form minerals. Let's suppose this is a low silica magma. There are lots of other chemicals, such as aluminum around. The aluminum likes to link to what silica there is around to form feldspars. But since this is a low silica magma, there isn't enough to go around. The extra aluminum has to go somewhere, so, when it gets concentrated enough, it forms corundum.

Now let's suppose this is a high silica magma. All the aluminum finds silica and makes feldspar. Now there is silica left over, so quartz eventually forms. In the first case, you have a rock formed consisting of feldspar and corundum, in the second case you have a rock formed consisting of feldspar and quartz. You can never get a rock with quartz and corundum forming together in it. There are similar relationships between quartz and sodalite, olivine and several other minerals.

So if someone offers you a specimen of corundum crystals embedded in quartz, start looking for the glue!

Dr. Bill Cordua has been a professor of geology since 1973 at the University of Wisconsin - River Falls. He is in the Rockhound and Lapidary Hall of Fame in Murdo South Dakota, and is a Fellow of the Geological Society of America, 410 South Third Street, River Falls, WI 54022, 715-425-3139; e-mail: william.s.cordua@uwrf.edu

<http://www.uwrf.edu/~william.s.cordua/>
"Speak to the Earth and it shall teach thee" - Job 12:8



Lazurite and Quartz can not naturally form together.

Peter J. Modreski's
Earth Science Coming
EVENTS

Friday, June 10, will be the next of the monthly free Map, Compass, and GPS Classes given for the public by the USGS at Building 810 on the Denver Federal Center. Given on the 2nd Friday of each month; mornings (9-11 a.m.) are Map & Compass, and afternoons (12-4 p.m.) are GPS. For reservations, please call 303-202-4640.

Saturday, June 11, USGS geologist Dr. Pete Modreski will lead a field trip for the Colorado Scientific Society: South Platte Country field trip, the White Cloud Pegmatite + the 1996 Buffalo Creek fire and flood

"A field trip to visit (1) the White Cloud Pegmatite, part of the South Platte pegmatite district within the Pikes Peak batholith, and (2) to see erosion, sedimentation, and ecological recovery in the aftermath of the June 1996 Buffalo Creek forest fire and flash flood. The trip will involve a 2-3 mile (round trip) hike beginning at the Colorado Trail footbridge just south of the confluence of the North and South Forks of the South Platte River. The hike will take us partly on the Colorado Trail, off-trail down a steep 400' hillside, and downstream along the wide gravel bed of Spring Creek." The trip is sponsored by the CSS but anyone may attend, space available; there is an \$8 registration fee. The trip will leave at 8 a.m. from the Cold Spring Park and Ride, Lakewood; contact Pete at 303-202-4766 or pmodreski@usgs.gov for details.

Aug. 11-14: Contin-Tail Rock Swap and Mineral Show, Rodeo Grounds, Buena Vista, CO

Aug. 19-21: Lake George Gem & Mineral Show, for more information contact Richard Parsons at 303-838-8859 or tazaminerals@att.net.

Sep. 10-11: Mineral Symposium sponsored by the Colorado Chapter, Friends of Mineralogy, "Agate and Cryptocrystalline Quartz", to be held at the Green Center, Colorado School of Mines campus. Registration fee is \$40, Saturday evening banquet \$25, plus optional field trips.

2005 Fieldtrips

20 June - Monday
Hartsel & Canon City:
Beryl and peridot.

Information and sign-up will be available at the show.

21 June - Tuesday, 9:00 a.m
Florissant: Fossils

This field trip will begin at the Woodland Park Library where there will be an orientation on area geology, paleontology, and history of the monument. Participants will then drive to an overlook of the Thirtynine Mile volcanic field. The next stop will be the Florissant Fossil Beds National Monument where the rest of the day will be spent exploring selected trails in the monument. Please bring a sack lunch to enjoy at noon and then explore the bookstore in the visitor center. There will be a fee to enter the national monument and the commercial fossil quarry. These fees, and other details, will be provided to you when you register for this trip by e-mailing Steven Veatch at sgeoveatch@att.net or by phone, 719-748-5010.

20 June - Wed, 8:00 a.m
Gold Camp Road: Amazonite, Smoky Quartz

This is a show field trip. Since most out of town guests will be on the north side, please meet at the Park and Ride in the SW corner of Woodmen Rd and Corporate Center Dr. We will convoy from there all the way to the Gold Camp Rd. The meeting time is 8 AM. For more info visit our web site on the SHOW page.

23 July - Saturday, 9:00 a.m
Lake George: Amazonite, Smoky Quartz, Fluorite

Rich Fretterd will be leading a trip to the Holy Moses claim near Lake George. Meet at the Lake George Ranger Work Center.

Four wheel drive is recommended. Bring hard rock tools, sunscreen, water, food, etc. Be prepared to dig in the dirt. Contact Rich Fretterd at 687-0671.

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Lewis and Clark: Rockhounding on the Way to the Pacific

In June 2001, at the AFMS/SCFMS Convention, it was suggested and approved to create a traveler's guide to the rocks, minerals, and fossils along the Lewis and Clark Trail. Thus the AFMS Lewis and Clark Project was created. After much work from volunteers from all regions of the AFMS Federation, the project has been completed and can be downloaded for your enjoyment.

Two versions of this document are available. A version that is optimized for viewing on your computer, and a version that is optimized for printing on your printer.

To download, go to <http://www.amfed.org/lewisclark.htm> and follow the directions.

Lewis & Clark: The National Bicentennial Exhibition

Denver Museum of Nature & Science
May 6 – August 21, 2005, 9:00 a.m. – 5:00 p.m. daily

After more than 200 years, Lewis & Clark's Corps of Discovery is making its way back to the Rocky Mountains. But it's stopping in Denver this time around.

Featuring hundreds of rare artifacts and documents, brought together for the first time in two centuries, the exhibition is a timely tribute to a band of intrepid explorers and their legendary expedition.

Board Meeting: 1st Wednesday @ 7:00
Drew Malin: 531-7594

April's meeting again will be at the usual place at the regular time.

Camera Club: 4th Tuesday @ 7:15

1514 North Hancock, C/S

Roger Pittman: 683-2603

The Camera Club meets on the fourth Tuesday of each month at 7:15 in the Senior Center, 1415 N. Hancock. We hold competition first then a member gives a slide show. Bev Millett (Barnes) won the Competition for May. June competition subject is "Gemstones;" July is "Roses."

Crystal Study Group: 2nd Friday @ 7:30

1514 North Hancock, C/S

Kerry Burroughs: 634-4576

The crystal group does not meet during the summer months. We will meet again in September.

The September meeting theme is summer finds. Bring your field collected or purchased specimens.

Jewelry Group: 3rd Saturday @ Noon-4:00

6608 Gambol Quail Drive East, C/S

Rick Copeland: 594-6293

Next Jewelry meeting will be in September. Enjoy your summer!

Faceting Group: 4th Monday @ 7:00

Dave Wilson: 635-7891

The faceting group will not be meeting during the summer.

The next meeting will be Monday, September 26 at Rick and Pat Olson's, 535 Hidden Valley Road, at 7 pm.

Fossil Study Group: 4th Thursday @7:30

John Harrington: 599-0989

The Fossil Group doesn't take a summer break. We meet next month on June 23rd at Sharon Farrell's, 7255 Shawnee Place in Cimarron Hills at 7:30 I'll have the backup program...if I don't have to use it at Naoko's this month?

Lapidary Group: 1st Saturday @ Noon

3085 Rhapsody Drive, C/S

Drew Malin: 531-7594

The Lapidary Group will be meeting in June. This will allow everyone a chance to put some finishing touches on their cabs before the show. Lick-em. Cut-em. Cab-em.

Micromounts: 2nd Tuesday @ 7:00

1514 North Hancock, C/S

Phil McCollum acc@frii.com

Moyra Lyne: 442-2673

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Lapidary Group	Drew Malin	531-7594	advanceone@adelphia.net
Micromount	Phil McCollum		acc@frii.com
Jewelry	Rick Copeland	332-7915	rick.copeland@covad.net

Events

- 1 June - Wednesday, 7:00**
Board Meeting
- 4 June - Saturday, Noon**
Lapidary Group
- 9 June - Thursday, 7:30**
General Assembly
- 10 June - Friday, 7:30**
Crystal Study Group
- 14 June - Tuesday, 7:30**
Micromounts Group
- 17-19 June - Fri, Sat, Sun.**
Pikes Peak Gem and Mineral Show, The Rocky Mountain Federation of Mineralogical Societies 2005 Convention & the Rocky Mountain Micromineral Symposium
- 23 June - Thursday, 7:30**
Fossil Group
- 27 June - Monday, 7:00**
Faceting Group
- 28 June - Tuesday, 7:15**
Camera Group

See sidebar on page 8 for field trip schedule

- 2 July - Saturday, Noon**
Lapidary Group
- 6 July - Wednesday, 7:00**
Board Meeting
- 12 July - Tuesday, 7:30**
Micromounts Group
- 21 July - Thursday, 7:30**
General Assembly
- 26 July - Tuesday, 7:15**
Camera Group
- 28 July - Thursday, 7:30**
Fossil Group

Ethan A. Bronner, Editor



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Joining the Colorado Springs Mineralogical Society (CSMS)

General Assembly meetings are the third (3rd) Thursday of each month, except August, 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 Study Group, Lapidary Group, Jewelry Group. For details of Satellite Group meetings, see page 9.

Yearly Dues include the 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 - \$15.00 Family - \$25.00 Juniors - \$2.00

If you are interested in joining the 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 website: www.csms.us