

# PICK & PACK

THE BULLETIN OF THE COLORADO SPRINGS MINERALOGICAL SOCIETY Published Since 1960

## TRANSITIONS

### Bob Wing

*CSMS Lifetime Member Passes September 15, 2005*

Kay Thompson

To call Bob Wing just a rockhound is like calling a diamond just another rock. Bob was an active member of the Colorado Springs Mineralogical Society for over 30 years. He and his wife Norma and their son Gerald joined on April 14, 1961 so they could have a family hobby their son might enjoy. And, like so many families, it was the parents who ended up finding a real passion and stayed as active members



Bob as President in 1972

of the CSMS long after Gerald grew up and moved away.

Bob began his service to this organization as the chairman of the Pikes Peak Gem and Mineral Show in 1966. He then became the club's Treasurer in 1967 and 1968. He served as vice president in 1969 and won the presidential election to take leadership of the Society in 1972. When he again won the presidency in 1973, Bob was

See **Bob Wing** on page 3

## FIELD TRIP TALES

### Trona Mine Tour

*Cheyenne Club gets a fresh look at baking soda*

Bob King

Wednesday, June 15 of this year I left Cheyenne and headed to Green River, WY for a 4-hour underground tour of the FMC Trona Mine. Having a room reservation in Green River, I had plenty of time to take a 100-mile side trip to a selenite location south of Lander that had been shared with me by fellow club member Ron McKee. Ron's directions to the Selenite location were excellent. The location is a road cut on highway 789. After checking out the terrain on both sides of the highway, I picked a place to dig and

See **Trona** on page 4



Trona Stalactites © Bob King 2005

OCTOBER 2005

Volume 45 Number 8

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.

Drew Malin	President
Rick Olson	Vice President
Rick Copeland	Secretary
James Bushnell	Treasurer
Ethan Bronner	Membership Secretary
Ethan Bronner	Managing Editor
Louis Severini	Member at Large
John White	Member at Large
Bob Landgraf	Past President
Lorrie Hutchinson	Show Chairman
Brent Williams	Field Trip Director

## Proud Members of:

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Colorado Federation of Mineralogical Societies (CFMS)

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Mineralogical Society  
Founded in 1936



Lazard Cahn  
Honorary President



## Our Staff...

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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 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 &amp; Fax:

(719) 448-9949

For faxes no precalls are required.

The PICK & PACK is published ten (10) times per year. 270 issues printed, 200-250 mailed per month.

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## PRESIDENT'S CORNER

## 2006 Slate of Officers Announced

## 2006 show date and venue confirmed

Drew Malin



Hello again, all. I hope everyone had the chance to go to the Denver Show this past month. I know that a big and growing number of our members go every

year, and many of the Denver clubs' members reciprocate and come to our show in the spring.

Speaking of the CSMS show, we have confirmed that it will be held on Father's Day weekend in June, just like last year. Phil Long Ford Expo Center has us locked in. I feel sure that we will continue to see increased attendance as people get used to seeing the show each year at the same time.

I'd like to send our condolences to the friends and family of Bob Wing. Bob passed away last month. He was a former president of the CSMS and will be missed by all of us.

The Socorro mineral symposium is coming up this month. It's a fun and educational trip. If anyone would like to go, you

can contact Bob Landgraf for information.

Last, but by no means least, Ethan Bronner has volunteered to be our field trip leader for the 2006 season. Special thanks to Brent Williams for his help with this year's trips. Brent did a great job with the challenges of getting people to commit to leading the trips. Ethan has the advantage of more years with the club and 2 years of being the Pick and Pack Editor. He knows which members can lead trips, and he WILL be calling you. Please commit to a date early this year. We would like to have a near full slate of trips ready to go as close to the beginning of the year as possible.

Finally, I'd like to announce the slate of volunteers for officers for 2006:

President: ..... Drew Malin  
Vice President: ..... Linda Laverty  
Treasurer: ..... Jim Bushnell  
Secretary: ..... Rick Copeland  
Managing Editor: ..... Bob Ohlin  
Membership Secretary: .. Lorrie Hutchinson

We will announce the candidates at the next general meeting. See you all there.



## Pick and Shovel for Fun?

## October's General Assembly

*This is a program for all members, but especially new collectors.*

You'll want to mark your calendar now for the October CSMS regular meeting on October 20. Long-time crystal collector Ray Berry will present a Power Point slide program of reminiscences of collecting over the past 35 years with club members and others in the hobby. He promises to photographically introduce you to an important lady who taught him many things about the formation and growth of Pikes Peak area minerals.

## New members please note!

A significant part of the show will answer the two most asked questions by new club members: **How do I find crystals?** and

**Where can I go to collect them?** You will see a map of the area and photos of many specimens collected nearby.

**October 2005 General Assembly**  
Thursday, October 20, 2005, 7:30

**Colorado Springs Senior Center**  
1514 North Hancock Blvd.

*September's refreshments courtesy:*  
**Crystal Group**



# Minutes...

*September 15, 2005*

Drew Malin called the meeting to order at 7:36

Minutes accepted with correction to the date in the heading.

## Treasurer's Report:

- Normal expenses.
- The 2005 show made a profit.
- Jim passed out a breakdown for the show's expenses and income

## Satellite Groups:

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

## Old Business:

None.

## New Business:

- Lorrie Hutchinson has agreed to be the 2006 show chairperson.
- The 2006 show will again be held for three days at the Phil Long Ford Expo Center on Father's Day weekend.
- The club is in need of volunteers to help develop the process of awarding the scholarship
- Ray Berry discussed the CSMS's possible participation in helping the Denver Museum of Nature and Science in their new acquisition of the Mount Antero aquamarine pocket.

The general meeting was adjourned at 8:02 followed by an informative presentation by Marcus Lieberman: "How a Geologist Looks for an Ore Deposit."

## Bob Wing *Continued from page 1*

quoted in his re-election write-up as saying his great memory was having to crawl into a cave to collect some barite. When the club needed his service once again, he graciously accepted the position of vice president in 1980, 1981, and 1982. In 1983 Bob became the only person to sit as president for a third term.

Bob's interest in the CSMS had as many facets as the stones he cut. He was active in the Faceting Group, Camera Club, Lapidary Group and was an active member in the early years of the Crystal Study Group. Through the years Bob was an avid mineral

collector and continually sought to learn

about the subject. Through the years he was lucky enough to take classes from Professor and well-known author Richard Pearl, and well-know pegmatite mineralogist M. B. Diaz. Bob was generous with the knowledge he gained and went on to teach a basic mineralogy class to new members of the CSMS. He also shared by hosting a number of club fieldtrips throughout the years. The Colorado Springs Mineralogical Society and its members are fortunate to have had Bob Wing as a member and friend. We will miss you, Bob.



*Bob Wing during a visit to Roger and Pat Pittman's home. © Roger Pittman*

*Kaye Thompson is a CSMS Lifetime Member.*



## September's General Assembly

September's General Assembly welcomed the evening with a full house. President Drew Malin quickly worked through the club business so we could get on with the presentation that the crowded room anticipated.

Over fifty people were in attendance for an educational and entertaining presentation. Our guest speaker, Marcus Lieberman, a member of the Denver Gem and Mineral Guild and a retired mineral exploration geologist, gave the September presentation entitled *How a Geologist Looks for an Ore Deposit*. The lecture was accompanied by a slide presentation that included many fine photos.

Marcus's presentation covered his years as an exploration geologist in Utah. He described the processes used to locate ore-bearing mineral deposits and how samples are taken to determine the ore quality. Marcus led us around several of his Utah exploration destinations, sharing both his hits and his misses.

We want to thank you, Marcus, for a fantastic presentation. Thank you for sharing your story. We hope you can join us again in the future. It was so informative that both new and experienced members learned something.

## Note from the Editor

I want to take this chance to thank Bob Ohlin for stepping up to the call for a new editor. Like myself two years ago, he is very excited about the challenges that lie ahead.

I ask that the members give him a warm welcome and extend to Bob the support and appreciation you have given me. I will soon begin to teach him what I have learned so he won't have to repeat my mistakes. Welcome, Bob.

## AFMS Award Winners

The American Federation has announced its 2005 Bulletin Editor Awards. Congratulations and thank you to the following CSMS winners:

### Original Articles

*Home Diamond Synthesis* - Steve Russell, 2nd Place

### Adult Articles Advanced

*The Florissant Lineament* - Andy Weinzaepfel, Author - 3rd Place

*Carbonized Wood* - Steven Wade Veatch & Timothy R. Brown, Authors - 5th Place

### New Editors

Pick & Pack - Ethan A. Bronner, Editor - 4th Place

## Relics of Florissant's Ancient Past: Volcanoes, Ash, and Fossils

*Colorado Springs Mineralogical Society Installation Banquet January 2006*

Discover Florissant's remarkable past when volcanoes dominated the landscape and violent eruptions darkened the skies. This presentation begins with the nature of volcanoes, how they are classified, and their place in natural history. This gripping story concludes with the volcanic setting of Florissant and the role volcanoes played in creating one of the greatest Eocene age plant and insect fossil sites in the world. Join professor Steven Veatch for this incredible journey into the fossil beds' intriguing past.

*Make your plans now. Sign-up sheets will appear in next month's issue*

### Trona *Continued from page 1*

found several selenite clusters, mostly fish tail selenite. I didn't have the correct tool for my digging and was breaking up a number of crystal groups so I packed up what I had and continued on to Green River.

above 1% as required by safety regulations.

Sixteen hundred feet below the surface we got off the hoist cage and got in to two diesel-powered, customized light trucks—they had no tops—and drove seven miles through an opening about 8 feet high and



Worker at the rock bolting machine. Note the rock bolt plate in the roof-top in the left corner of the photo. © Bob King 2005

Tuesday morning at 7:00, I was at the FMC mineshaft #8 located 16 miles west of Green River. Five other club members—Mary Carleton, her sons Chris & Tom, Glenn Antonopoulos and Kevin Boulter—and I were greeted and given a short mine safety talk by our two guides, Tim Davis and Chris Pritchard, both of whom are mining engineers.

We were given ear plugs as the ride down the hoist shaft was very noisy due to the main blowers that forced fresh air into the mine and some of the machinery in the mine is also noisy. We were also issued a hard hat equipped with a battery operated light, safety glasses, dust mask, safety belt, and a miner's self-rescuer that is a breathing device in case carbon monoxide is encountered. I wore jeans, a short-sleeved shirt and sneakers. The temperature in most of the mine was a pleasant 72° F. In the winter, the air brought into the mine is heated. Most of us had cameras, but before we could take a picture we would ask if we could, then Tim or Chris would check the level of methane in the air as it can explode when accumulating from 5 to 15%. We took a lot of pictures, and the methane level was never

16 feet wide. These roadways were dug out by an Eimco continuous boring machine that we got to see in operation. This electrically-powered machine grinds an 8 foot by 16 foot opening at a rate of about 24" in a little under two minutes, which is a car-load of 18 tons. We saw this machine dig through the wall of a passage that we were in. This was a time to put on our dust masks as when it broke through the wall there was so much dust in the air that you couldn't see the rotating blades on its front end. In a few minutes the dust cleared and we examined these massive blades. I was impressed.

Trona stalactites hung from the ceiling in many of the passages that we were in. A few of us collected some of these fragile stalactites and were told that these would turn into dust in a short period of time. Kevin suggested that I soak mine in mineral oil to prevent it from drying out, which is what I did. Another idea was to spray it with a lacquer. One of my two stalactites is 25" long.

The primary mining of the trona in this mine is done by what is called "Longwall Mining." A 750 foot "wall" moves forward





Bob King pointing out the marks left on the wall by the continuous boring machine.  
© Bob King 2005

as the trona is dug out by two electrically driven 75" diameter toothed rotating wheels that move parallel to the wall. Large hydraulic cylinders hold the "back"—miner's jargon for the roof of the mine. The walls are called "ribs" and the mining surface is the "face." Just think of a dog or cat lying on its stomach in a confined space. It's back

The back (roof) of the mine is rock bolted every 4 feet to prevent cave-ins. We watched a miner drill 4-foot-deep holes in the back, insert an adhesive cartridge, then insert the anchor rod in the hole. Each rod holds a 6" square plate firmly against the roof. These hold the layers of rock together just like a long nail would hold several sheets of plywood together to form a stronger laminated beam.

I asked Mary what her reaction to the mine tour was and these are her words. "I was amazed at how open the mine felt. I expected some minor claustrophobia, but experienced none. Climbing around on the Longwall miner and seeing firsthand the teeth of the boring machine breaking through from the other side were sights that none of the three of us will soon forget. One thing that kept surprising me was the occasional wind due to the

ventilation. I was also impressed at how neat they kept everything. Having to time ourselves to dodge the ore hauler left no doubt that we were in the very heart of an active working mine, being shown their true day-to-day operations and not just a roped-off



Mary Carleton Standing by the Longwall © Bob King 2005

is on top, the sides are where its ribs are and its face is in front. As the trona is gorged off of the wall, the chunks of trona are moved away by a conveyor belt that runs parallel to the wall to a crusher that breaks it down into smaller pieces.

## The Sun-Earth Day Event

by Judith Washburn

On June 8, 2004, starting at sunrise on the east coast of North America, people will see the planet Venus as it finishes moving across the face of the early morning sun. For those of us in Illinois, it will be a bit later. Those living in Europe will be able to witness the entire transit.

So, what is a transit and why should we be excited about this event? Because Venus and Mercury are the only two planets that orbit between the Sun and Earth, they are the only planets for which we can see transits. Venus's orbit is angled relative to Earth's so that it rarely comes between the Sun and Earth. Venus' transits (movements between the Sun and Earth) currently recur at intervals of 8, 105.5, 8, and 121.5 years. Why should we be excited? The last time humans witnessed this event was on December 8, 1882, when it was watched by millions of people across the world.

For over 100 years, the main quest of astronomers was to pin down the distance between the Earth and the Sun (the Astronomical Unit), that would give them a key to the size of the solar system. Careful studies of the transit of Venus became the gold mine they would harvest to reveal this measure.

There is some evidence that the ancient Babylonians saw and recorded on a tablet something about Venus and the Sun in the 16th Century B.C., but the record is not clear. It is fair to say that Galileo, with his telescope in 1610, was the first human to actually see Venus as more than just a bright point of light in the sky. Johannes Kepler, meanwhile, was shaking up the world with his meticulous use of astronomical data assembled by Tycho Brahe. He predicted that Venus would pass in front of the Sun on December 6, 1631, but, unfortunately the transit was not visible in Europe at all.

The first recorded sighting of this transit was by British cleric, Jeremiah Horrocks on December 4, 1639. Horrocks had mathematically predicted the event using better data than Kepler did.

For more information, check out <http://sunearth.gsfc.nasa.gov/sunearthday>. If you miss this on June 8, the next sighting will be in 2122, then not again until 2117. The Web site given provides information about safe solar viewing.

Via LOESS Bulletin 5/04

The above article won first place in the 2005 AFMS Original Articles category.

*The Friends of the Florissant Fossil Beds will host a community seminar presented by Vince Matthews, the Colorado State Geologist. Dr. Matthews will present:*

## China and India's Ravenous Appetites for Natural Resources: their potential impact on Colorado

Colorado's history is steeped in a rich horde of natural resources. Today the state is still a major provider of mineral and mineral fuels. However, worldwide shortages of many resources caused by the explosive and unprecedented economic growth of the two most populous nations on earth, China and India, will put increasing strains and pressures on Colorado's rapidly expanding and rapidly urbanizing population. An already strong demand for Colorado's rich reserves of oil, natural gas, coal, uranium and metals will only increase as unparalleled competition for Earth's limited resources grows.

The hour-long seminar will be presented at Colorado College's Tutt Science Center at 7 p.m., December 14, 2005. To get there, take the Uintah Street exit on I25 and head east, just past Cascade turn right onto a parking lot. The parking lot is east of the Tutt Science Center. For more details call Steven Veatch at 719-748-5010. There is no cost for the seminar.

area reserved for tourists. I also wondered this morning as I made a loaf of banana bread if the baking soda I used came from that same mine. I hadn't realized before our tour that baking soda, sodium bicarbonate, was a trona product."

Speaking of trona products, refined trona, or soda ash, is used to make glass, paper, laundry detergents and baking soda.

What is trona? Trona is a rare mineral found only in a few locations on the earth. The Green River area is the only place trona is commercially mined.

Hardness: 2.5-3 specific gravity: 2.13  
( $\text{Na}_3(\text{HCO}_3)(\text{CO}_3) \cdot 2\text{H}_2\text{O}$ )

How was this trona formed? During the

Eocene Epoch, about 50 million years ago, Lake Gosiute existed in what today is the Green River Basin. This land-locked lake covered about 20,000 square miles. The water flowing into this lake had a high sodium content. When Lake Gosiute evaporated, 100 billion tons of nearly pure trona remained.

It was a fascinating four hours underground.

*The author is a Lifetime member of the Colorado Springs Mineralogical Society. He now lives in Cheyenne, Wyoming and is the president of their Mineralogical Society.*



## A Large Poplar Leaf Fossil

### Western Interior Paleontological Society

Steven Wade Veatch

***"When the mountains are overthrown and the seas uplifted, the universe at Florissant flings itself against a gnat and preserves it."* — Dr. Arthur C. Peale, Hayden Expedition Geologist, 1873.**

**W**est of Pikes Peak—near the small community of Florissant—there is a beautiful mountain valley where the rocks reveal a prehistoric Colorado. About 34 million years ago, raging mudflows from volcanic eruptions poured into this valley. The silica-rich mud buried the base of redwood trees that grew in the Florissant valley. The lower trunks of these trees were ultimately petrified.

The mudflows also dammed a river that was flowing in the valley, forming a long and narrow lake. Over time the fine-grained sediments

at the bottom of the lake became the burial site for countless insects and plants. These sediments compacted into layers of shale, preserving plant and animal remains as fossils.

The Colorado Springs Mineralogical Society hosted a field trip to the Florissant Fossil Beds National Monument that followed the 2005 Pikes Peak Gem and Mineral Show. After a tour of the monument, the group went to the Florissant Fossil Quarry, a commercial collecting site.

Everyone in the field party found a number of plant and insect fossils. During the last five minutes of the field trip an 11<sup>th</sup> grade student announced that he had found a large leaf fossil. The clatter of shale fragments being split in search of fossils and the lively discussion among the fossil hunters quickly ended at this

declaration. Everyone rapidly gathered around the student to see the prized leaf fossil. Excitement filled the mountain valley as the specimen was being exposed for the first time. Using standard paleontological techniques, the young man slowly and carefully extracted this remarkable specimen. The fossil was removed in fine condition and a celebration followed.

The high school student uncovered a remarkable Eocene-age poplar leaf, *Populus crassa*. The fossil leaf impression, on a slab of lake shale, was formed in ancient lake sediments and volcanic ash. The lanceolate (shaped like a spear) leaf has



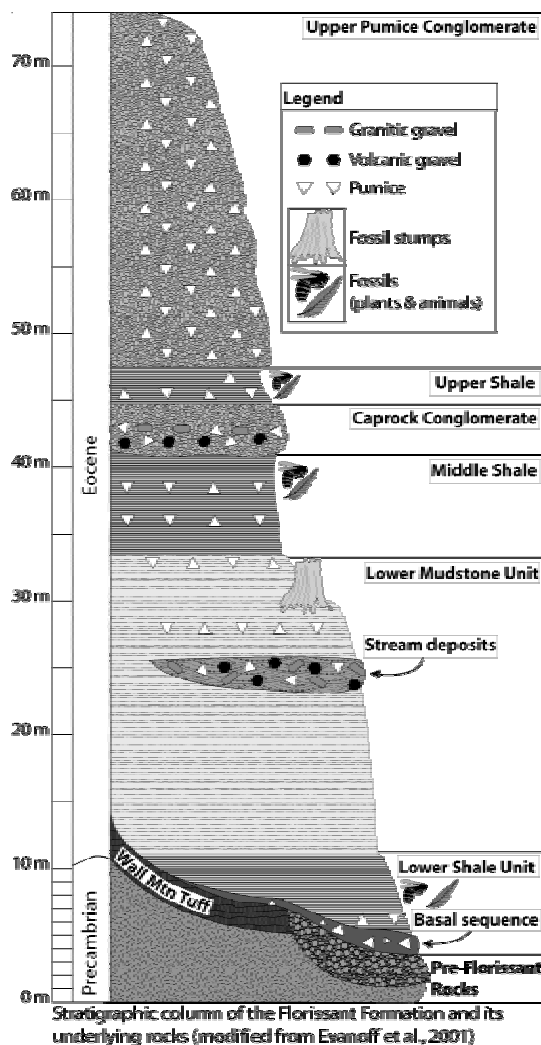
*Populus crassa is one of the more common Eocene leaves in the fossil record at Florissant. This specimen is important due to the detail seen in the fossil leaf and that the fossil is largely intact. Photo by J. Bowman, © 2005.*





A number of remarkable fossils have come from this exposure of the Florissant Formation at the commercial quarry north of the national monument on Teller County Road 1. Photo by J. Bowman, © 2005.

an overall length of 18.5 cm; the leaf length is 15.3 cm; the stem is 3.2 cm; the width at the widest point of the leaf is 4.5 cm. The base of



**Note:** The fossils from the commercial Florissant Fossil Quarry, including the *Populus crassa* specimen, are from the lower shale unit in the Florissant Formation.

the leaf is rounded. Poplar is one of the largest fossil leaves found in the Florissant Formation. The tree, needing more moisture than some of the other trees, grew around the edge of ancient Lake Florissant—improving the chance of the leaves becoming fossilized.

This ancient poplar leaf from the Eocene will be studied by paleobotanists and become part of the paleontological record of the Florissant Fossil Beds. Although fossils at the Florissant Fossil Beds National Monument are protected, fossils can be collected at the Florissant Fossil Quarry, a commercial collecting site. Both locations provide an extraordinary window to the prehistoric world of the Eocene.

#### Acknowledgments:

Brandon Mimiaga, a member of the CSMS field trip, discovered the fossil poplar leaf. Stan Balducci, of the Western Interior Paleontological Society, contributed to this paper. Joe Hall, who was a summer intern at the Florissant Fossil Beds National Monument, provided the stratigraphic column. Joe Bowman, from Tucson, Arizona, was a member of the field trip and provided several of the photographs for this paper. Shelly Veatch provided critical review.

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The author is a Lifetime Member of the CSMS.

## 26<sup>th</sup> Annual New Mexico Mineral Symposium

November 12 & 13, 2005

Macey Center  
New Mexico Institute of Mining  
& Technology  
Socorro, New Mexico

The New Mexico Mineral Symposium provides a forum for both professionals and amateurs interested in mineralogy. The meeting allows all to share their cumulative knowledge of mineral occurrences and provides stimulus for mineralogical studies and new mineral discoveries. In addition, the informal atmosphere allows for intimate discussions among all interested in mineralogy and associated fields.

This year's symposium will consist of a day and a half of formal papers presented in 30-minute time blocks. Papers will focus on mineral occurrences from New Mexico and adjacent states, as well as Mexico. A few selected papers may be presented from other parts of the world. An informal pre-symposium social and tailgating session will be held at local motels beginning on Friday, November 11, 2005 and will last through the weekend. No formal field trips are planned.

A silent auction, sponsored by the Albuquerque Gem and Mineral Club for the benefit of the Mineral Museum, will be held on Sunday afternoon, November 13. The auction will be open to the public and all interested may buy or sell. All sellers are asked to donate \$20 per table to the club. More information will be available at the symposium.

The general registration fee for the symposium is \$25.00, the fee for seniors over 55 is \$20.00, and the fee for students is \$10.00 (with student ID). Registration includes a copy of the abstracts, two continental breakfasts, and coffee breaks. A cocktail hour and dinner will be held on Saturday, November 12, 2005. A cash bar will be available. The cost for the dinner is \$16.00 for adults, \$6.00 for children (2-12 years old). An auction to benefit the symposium will conclude the evening's activities. More information:

<http://geoinfo.nmt.edu/education/museum/minsymp/home.html>

## Dennis Beal Open House

Dennis is in Mexico buying minerals. He has found some great amethyst, very good demantoid, apophyllite, silver minerals and more. He will be having his annual open house Saturday October 22, 2005 from 2PM into the evening. It is a fun fiesta with wonderful food and some great deals on minerals.

More information including a map can be found at his website:-  
[www.xtal-dbeals.com](http://www.xtal-dbeals.com)

Dennis L. Beals  
PMB 256, 5994 S. Holly St.  
Greenwood Village CO 80111  
303-771-9225  
303-829-3771 cell

## Note from Ray Berry

Hi, folks, just a reminder of my "garage" mineral sale on the 22<sup>nd</sup> and 23<sup>rd</sup>. I know Dennis is having an open house on the 22<sup>nd</sup>, and I can't compete with that on Saturday, but Sunday may work for you, too. If you need instructions to find me, reply to this and I will send you instructions. I will also attach my ad again.

## Cripple Creek School of Paleontology

This entertaining and educational class is for anyone interested in an introduction to the fascinating world of fossils.

Part of this class is conducted in the field and requires participants to be in good general health and able to do an easy hike about one mile long. Come prepared with clothing appropriate for mountain weather in the late fall. Cripple Creek offers many interesting diversions after class.

**Date:** October 22, 2005  
**Time:** 8:30 am to 5:30 pm  
**Place:** June Hack Community Center in Cripple Creek  
**Fee:** \$35.00 includes materials, transportation, completion certificate, and admissions  
**Register:** Call Cripple Creek Park and Recreation at 719-689-3514 today

## Art Rocks! WMMI Super Saturday

Local and respected professional artist Steve Wood returns to assist the Western Museum of Mining & Industry's staff with an afternoon of art, science and fun for the whole family. Steve will explain how his study of geology has impacted his artistic works, including these prominent Colorado Springs public art pieces: the Uncle Wilber Fountain Mosaic, the Transit Building Mural, and WMMI's own award-winning Mining Through History mural. In addition, Steve will be highlighting the work of the nonprofit organization Concrete Couch, which works to create community through public art projects. The Museum's staff will overview the mineralogy and chemistry involved in mined art materials including paint pigments and clay. Afterward, everyone will make a piece of art to take home!

November 12, 2005, 1:00 p.m. - 3:00 p.m

Western Museum of Mining & Industry  
719-488-0880

## MINERAL SALE

Saturday & Sunday  
October 22 & 23

9 AM - 5 PM  
at our garage

7513 Tudor Rd, CS. CO  
Take 1-25 Exit #149

We will be featuring recent finds of Smoky Quartz, Amazonite, Goethite and Amethystine Quartz with Goethite inclusions, plus a select few fine specimens from our collection.


Ray & Eloise Berry  
719 598-7877

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SAT, ONLY 10-5

## Steve & Peggy Willman - Minerals Sangre de Cristo Gallery

114 Main Street, Westcliffe, CO 81252  
email: [gallery@ris.net](mailto:gallery@ris.net) 719-783-9459  
Fall Hours: Friday & Saturday 10:00 to 5:00

Collectable minerals, fossils, crafts & local artists



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

Board meetings have a new venue. They are still at Drew's office, but Drew has a new office. Contact him for the correct address.

**Camera Club:** 4th Tuesday @ 7:15  
 1514 North Hancock, C/S  
**Roger Pittman:** 683-2603

Camera Club meets on the fourth Tuesday of each month at the Senior Center, 1415 N. Hancock at 7:15PM. Bev Millet won the competition last month. The competition subject for October is "Fall," November is "Flower."

**Crystal Study Group:** 2nd Friday @ 7:30  
 1514 North Hancock, C/S  
**Kerry Burroughs:** 634-4576

The crystal group meeting program presentation is pegmatites and will be presented by John Casto.

**Jewelry Group:** 3rd Saturday @ Noon-4:00  
 6608 Gambol Quail Drive East, C/S  
**Rick Copeland:** 594-6293

The Jewelry club will meet Saturday, October 22, from noon until 4:00, at Bill Arnson's, 15610 Alta Plaza Circle, Peyton. Phone: 749-2328.

**Faceting Group:** 4th Monday @ 7:00  
**Dave Wilson:** 635-7891

The faceting group meeting will be at Bill Meyer's house on Oct. 24 at 7:00. The address is: 2470 Clarkson Dr. Phone number is 475-2940.

**Fossil Study Group:** 4th Wednesday @7:30 **John Harrington:** 599-0989

Art & Kristine Harris at 6135 Eagles Nest Drive will switch with JimBo for the Fossil Meeting on the 26th!

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

If you ever wondered how rocks were cut and polished this is the satellite group you want to attend. Bring your rocks and get your hands dirty or stand around and watch how others do it. This is a great way to spend a Saturday socializing with your fellow rockhounds and rock lickers.

**Micromounts:** 2nd Tuesday @ 7:00  
 1514 North Hancock, C/S  
**Phil McCollum** [acc@friei.com](mailto:acc@friei.com)  
**Moyra Lyne:** 442-2673

## Events

- 1 **Oct - Saturday, Noon**  
Lapidary Group
- 5 **Oct - Wednesday, 7:00**  
Board Meeting
- 11 **Oct - Tuesday, 7:30**  
Micromounts Group
- 14 **Oct - Friday, 7:30**  
Crystal Study Group
- 15 **Oct - Saturday, Noon**  
Jewelry Group
- 20 **Oct - Thursday, 7:30**  
General Assembly
- 24 **Oct - Monday, 7:00**  
Faceting Group
- 25 **Oct - Tuesday, 7:15**  
Camera Group
- 26 **Oct - Wednesday, 7:30**  
Fossil Group
- 31 **Oct - Monday**  
Halloween
- 2 **Nov - Wednesday, 7:00**  
Board Meeting
- 4 **Nov - Friday, 7:30**  
Crystal Study Group
- 5 **Nov - Saturday, Noon**  
Lapidary Group
- 8 **Nov - Tuesday, 7:30**  
Micromounts Group
- 17 **Nov - Thursday, 7:30**  
General Assembly
- 19 **Nov - Saturday, Noon**  
Jewelry Group
- 22 **Nov - Tuesday, 7:15**  
Camera Group
- 23 **Nov - Wednesday, 7:30**  
Fossil Group
- 24 **Nov - Thursday**  
Thanksgiving
- 28 **Nov - Monday, 7:00**  
Faceting Group

President	Drew Malin	531-7594	<a href="mailto:advanceone@adelphia.net">advanceone@adelphia.net</a>
Vice President	Rick Olson	531-7818	<a href="mailto:RickPat66@aol.com">RickPat66@aol.com</a>
Secretary	Rick Copeland	594-6293	<a href="mailto:rick.copeland@covad.net">rick.copeland@covad.net</a>
Treasurer	James Bushnell	598-9262	<a href="mailto:bushy@pyramidpeak.com">bushy@pyramidpeak.com</a>
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Field Trip Director	Brent Williams	632-3552	<a href="mailto:zaphod1863@yahoo.com">zaphod1863@yahoo.com</a>
Librarian	Mary O'Donnell	689-7209	<a href="mailto:mod4185@compuserve.com">mod4185@compuserve.com</a>
Camera Club	Roger Pittman	683-2603	<a href="mailto:rpittman@netzero.com">rpittman@netzero.com</a>
Crystal Study	Kerry Burroughs	634-4576	<a href="mailto:kburroug@adelphia.net">kburroug@adelphia.net</a>
Faceting Group	Dave Wilson	635-7891	<a href="mailto:dlwilson@pcsisys.net">dlwilson@pcsisys.net</a>
Fossil Group	John Harrington	599-0989	<a href="mailto:harrington1@mindspring.com">harrington1@mindspring.com</a>
Lapidary Group	Drew Malin	531-7594	<a href="mailto:advanceone@adelphia.net">advanceone@adelphia.net</a>
Micromount	Phil McCollum		<a href="mailto:acc@friei.com">acc@friei.com</a>
Jewelry	Rick Copeland	332-7915	<a href="mailto:rick.copeland@covad.net">rick.copeland@covad.net</a>

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](http://www.csms.us)