

# PICK&PACK

THE BULLETIN OF THE COLORADO SPRINGS MINERALOGICAL SOCIETY Published Since 1960

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PICK&PACK

Volume 48 Number 10

## GOIN' TO THE COUNTRY: THE WILLOW CREEK

### DIKES

BY MIKE NELSON, CSMS

Colorado is blessed to have a wide variety of igneous rocks exposed in the central and western part of the state. These are rocks that originated deep in the earth as liquid magma and then cooled and solidified either below



Fig 1-The Black Canyon of the Gunnison. Note dikes in the valley walls. Photo courtesy of US National Park Service.

the surface of the earth (intrusive) or on the surface of the earth (extrusive). The latter are commonly known as volcanic rocks and since they cool very rapidly the individual mineral grains are tiny and magnification must be used to observe the minerals. In fact, obsidian cools so rapidly that individual crystals are absent from the structure. These extrusive rocks are "extruded" by explosive volcanoes or as flows.

In contrast, intrusive igneous rocks "intrude" into

pre-existing rocks and cool very slowly. Granite is a common intrusive igneous rock, and one can easily see the individual grains of feldspar, quartz, and iron minerals in samples of the local Pikes Peak Granite. Pegmatites develop near the margins of the magma chamber and cool very, very slowly. Therefore, crystals can grow quite large; hence, the reported four foot crystals of smoky quartz near Devil's Head (Pikes Peak pegmatites), and spodumene "logs" in South Dakota (Black Hills pegmatites) approaching 50 feet in length.

Geologists apply a wide variety of names to bodies of intrusive igneous rocks (plutons) including concordant (intrusive rocks are parallel to bedding planes) and discordant (intrusive rocks cut across pre-existing rocks). Further terms include (<<http://en.wikipedia.org/wiki/Intrusion>>):

- batholith: large irregular discordant intrusions.
- stock: smaller irregular discordant intrusions.
- dike: a relatively narrow tabular discordant body, often with near-vertical attitude.
- sill: a relatively thin tabular concordant body intruded along bedding planes, often near-horizontal when emplaced, but may be intruded into tilted beds or the entire package may be tilted by later deformation. (See DIKES on pg 4)

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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.

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Colorado Springs  
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Founded in 1936

Lazard Cahn

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### 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 email it. Format does not matter. All submissions are welcomed.

DEADLINE for items to be included is the Saturday after the General Assembly every month.

To submit an item, please use the following:

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

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## PRESIDENT'S CORNER

By RICK COPELAND, CSMS



Rick Copeland

**G**reetings, Fellow Rockhounds!

Well, we finished up our last field trip for 2008. Thanks to Yam for all his hard work scheduling the many trips!

We are in need of a 2009 Vice President candidate. This position entails arranging for guest speakers, conducting the Executive Committee Meetings, and filling in for the president should he/she be unable to continue as president. If you are interested, please contact Yam or myself. We would love to welcome you to the Board. Our slate of 2009 officers is: President—**Ron "Yam" Yamiolkoski**, Vice President—**?You?**, Secretary—**Bob Germano**, Treasurer—**Ann Proctor**, Managing Editor—**Betty Cain**, Membership Chairman—**Bill Cain**, and Members-at-Large—**Mike Nelson & Charles Webb**. I will continue to serve the Board as immediate Past President. The election will be held at the November General Assembly.

So, with the fall colors all around us, it's time to start thinking of the holidays and annual CSMS holiday functions. The Silent Auction and Bake Sale will be held at the Embassy Suites on Saturday, December 6, from 10:00 a.m. to 2:00 p.m. We need donations for the silent auction. You can donate clear up to the day of the auction. So, sort through your collections and donate your duplicates. Also, fire up those ovens and donate a tasty bakery treat for the Bake Sale. Thanks to **Linda Laverly, Ilona Vogt, and Jim Bushnell** for volunteering their valued services again this year.

The December regular meeting brings the White Buffalo game which is always lots of fun. Bring a wrapped gift with a value of around \$5. And please make sure it is hobby related.

Our Annual Officers Installation and Awards Banquet is scheduled for January 15, 2009 at the Embassy Suites. A registration form is enclosed in this edition. Our new membership year award pins will be presented at the banquet. Many thanks to **Drew Malin**, Past President, for getting such a good location and price for us again this year.

Until next time!

## NEXT GENERAL ASSEMBLY PROGRAM

The November 20th General Assembly presentation will be "*The Amazing Story of Guffey*" by Steven Wade Veatch, CSMS Life Member, past officer, and current Junior/Pebble Pups Leader. This will be a good one you don't want to miss!

## CSMS ANNUAL SILENT AUCTION & BAKE SALE—DEC 6, 10A-1P, EMBASSY SUITES

**D**o you have your December White Buffalo gift yet? Well, here's your opportunity to pick up a valuable specimen at a tremendous bargain! Funds raised at the Annual Silent Auction and Bake Sale are used for the satellite groups' equipment and supplies. So, bring your eye for a bargain, your wallet, and your appetite. It's great fun to watch the Pebble Pups scramble around the auction tables to see if someone has upped the bid on their treasures. It's also hilarious to watch **Drew Malin** and **Jim Bushnell** try to outbid each other. In that light, if you have specimens, equipment, or anything rockhound related that you'd like to donate to the auction, please let us know. Don't forget to bring a bake sale item to donate.



## AFMS NEWS

BY JOY BOURNE, AFMS PRES

**I**t is my great privilege and honor to have been elected to the serve in the office of President of the American Federation of Mineralogical Societies for 2008-09. I will do my very best to fill the very big "shoes" of Shirley Leeson, who has left a raft of new committees and ideas for growth of our American Federation. This also means, among other things, that you will not be subjected to my newsletter articles touting the annual AFMS Endowment Fund Drawings for a while! Dee Holland will be taking up the reins for the Endowment Fund, and I am sure we could not have found a better person for the job!



By way of introduction, my home federation is EFMLS for which I served as 2nd Vice-President, and briefly as 1st Vice-President. As First Vice President, I was called upon to fill the President's position when, after only 19 days in office, the elected President regretfully resigned in order to attend to an unexpected family emergency. In 2001, I was elected to my own term in the office of President. So, the business of coordinating presidential responsibilities is not entirely foreign to me. I actually served two terms in that post for EFMLS.

Other offices which I have filled for EFMLS include Bulletin Advisory Chairman, Geology Chairman and Wildacres Functioning Committee member. For AFMS, in addition to serving as Regional Vice President several times, I have served as AFMS Endowment Fund Chairman since 2004.

I am delighted to note that Past President Shirley Leeson has in place a terrific slate of officers and committee chairmen, most of whom will remain on board to continue to do the real work of the Federation. I thank all of these fine people for their past performance and look forward to working with each and every one of them.

We currently have three ad-hoc committees working on committees which are evaluating existing programs, and implementing some new trial programs. These latter will be evaluated and voted upon to add new programs to those now being offered to benefit the Regional Federations and clubs of our organization. These committees include the Ad Hoc Contests & Competitions Study, chaired by Ron Carman; an Ad Hoc Inter-Federation Field Trips Program chaired by Dick Pankey, and a brand new Ad Hoc Webmaster's Contest headed up by Phyllis George.

In addition to the expertise of all these special people, I have the additional advantage of having access to experts Shirley Leeson and Carolyn and Steve Weinberger, who have indicated that they are willing and able to provide ad-

## WMMI HAPPENINGS

### Nov 7, 6PM - 5TH ANNUAL GOLD PARTY

Save the date! This year's Museum fundraiser will include a bourbon tasting, light appetizers, music, a guest speaker and a silent auction! If you are interest in donating, please contact us before Nov 1 for pick up or mailing at 719-487-3283. Tickets are \$50 per person.

### Nov 11, 9A-4P—VETERANS DAY REMEMBRANCE

WMMI wants to thank all veterans and active duty for their service to our country. All veterans and active duty military with ID will be given free entrance to the Museum. Regular admission applies to family members. Tours at 10a and 1p.

### Nov 14, 7P—HERITAGE LECTURE SERIES: ASPEN: THE HISTORY OF A SILVER MINING TOWN

Guest speaker is Dr. Malcom J. Rohrbough, Phd. Free, but reservations are necessary by Nov 7 due to limited seating. 719-488-0880.

### Nov 29, 10A-1P—THE GOLD ASSAY PROCESS MAGIC OR CHEMISTRY?

Gold does not come out of the ground ready to wear. Join us at WMMI to discover the fascinating process of how rock is turned into gold. Hands-on learners of all ages will crush and classify ore as they learn the basics of gold ore assaying—determining the value of gold in the rock. This fast moving, interactive "cold" assay demonstration will overview the math,



Lakota and Titan (Canini) dig for peridot during a recent field trip to the CSMS Peridot Claims. Photo by Eva Germano

mechanics, and chemistry of this exciting process. Admission to WMMI is free to all CSMS members.

## UPCOMING SHOWS

### Nov 7-9

RMFMS Show, Tulsa, OK  
[www.rmfmms.org](http://www.rmfmms.org)

### Nov 29-30

NW CO Gen & Mineral Show, Craig, CO, Matt Maneotis, 970-629-3492, [nwcogemshow08@hotmail.com](mailto:nwcogemshow08@hotmail.com)

### Dec 5-7

El Paso Mineral & Gem Society, 6331 Alabama, El Paso, Gem Center@aol.com

### Dec 12-14

Flatirons Mineral Club, Boulder County Fairground, 9595 Nelson Rd. (Nelson & Hover), Longmont, CO

## Upcoming Events

### Nov 7

"Rock Out for the Ridge" fundraiser evening for Dinosaur Ridge, Morrison CO. 303-697-3466

### Nov 20-21

CO Science Conf for Professional Development (AKA CO Science Teachers Convention), Denver Merchandise Mart, <<http://coloradocast.org/professionaldevelopment.php?page=overview>>

### 9/26—Jan 4

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

visement to keep me on the right track should I stray. How lucky can one person get?

Until next month—

Joy

## DIKES (CONTD FROM PG 1)

- pipe or volcanic neck: circular or tube shaped nearly vertical body which may have been a feeder vent for a volcano.
- laccolith: concordant body with essentially flat base and dome shaped upper surface, usually has a feeder pipe below.
- lopolith: concordant body with a relatively flat to sagging top and a shallow convex base (spoon-shaped), may have a feeder dike or pipe below.
- phacolith: concordant lens-shaped pluton that typically occupies the crest of an anticline or the trough of a syncline.

To me, the most scenic plutons are the igneous dikes intruded into pre-existing sedimentary rocks. Dikes intruded into igneous or metamorphic rocks are usually of a similar hardness as the host rock—see numerous small dikes crossing the country rock at Black Canyon of the Gunnison (Fig 1). However, dikes intruded into sedimentary rocks are almost always harder than the host rock and therefore tend to erode at a slower rate. As a result, the dikes become topographic features and are readily noticed. The most famous dikes in Colorado are those radial dikes associated with the Spanish Peaks in southern Colorado near La Veta (Fig 2). In fact, these may be the most famous dike swarm in the United States.

However, I prefer my dikes to be infamous, unnamed, startling, surprising, and just something that will “knock your socks off” when driving a back-country road. Such dikes are found north of Granby on lightly traveled Colorado Highway 125 near Willow Creek Pass (Figs 3, 4).

Colorado 125 intersects with US 40 slightly west of Granby (three miles) and then generally follows Willow Creek north from the intersection until it reaches the Pass in approximately 21.5 miles. Along the way the road cuts through several exposures of the late Cretaceous Pierre Shale and the overlying basin fill rocks (arkosic sandstone, conglomerate, shale and some coal) assigned to the Coalmont Formation (Paleocene –Eocene) (Tweto, 1979). Geologically, the Pass is interesting as it is near the intersection of North Park and South Park, bounded on the east by the Never Summer Range and on the west by the Rabbit Ears volcanics. At 9621 feet it is one of the lowest places along the Continental Divide in Colorado. After summiting the Pass, the road continues on for about 52 miles through Walden and finally to the Colorado-Wyoming border. The scenery is spectacular for the entire trip.

There are several dikes exposed near Willow Creek Pass at approximately Mile Markers 18.2, 20.2, 20.7, 21.4, 21.8, 21.9 (Donnell, 1960 and see geologic maps of Tweto, 1979 and Toth and Soullier, 2000). The rocks composing the dikes appear to be dacitic (high in plagioclase feldspar and iron and magnesium minerals) to rhyolitic (high silica and low iron and magnesium); all are porphyritic in texture (Toth and Soullier, 2000). Porphyritic rocks have large grained crystals (phenocrysts) set in a fine-grained matrix and probably indicate the cooling of the magma in two different stages. Immediately to the east of the dikes is Radial Mountain at 11,240 feet. Although I could not locate information as to the naming of this peak, it appears that the dikes radiate out from the summit (for an interesting view see Google Maps at <http://maps.google.com/> and zoom in on Willow Creek Pass on both the Terrain and Satellite programs), an outcrop of rocks similar to the dikes (Tweto, 1979). Toth and Soullier (2000) believe the dikes are probably Oligocene in age, perhaps 24-28.8 my. They may be related to crustal extension associated with the Rio Grande Rift to the south.

One of the most interesting aspects of the Willow Creek dikes is that these quite hard igneous rocks are intruded into the easily erodible Coalmont Formation. Therefore, the dikes stand out in high relief (Fig 3) and cause the reaction: “Whoa! Stop the car. What in the world is that”. Colorado 125 is a beautiful back-country road with some “up-close” geology available for all to observe. So think about doing what Steve Miller sang: “Goin’ to the country and leavin’ right away. No time to talk; I got to make a getaway”.

REFERENCES CITED  
Donnell, J. R. *Geological Road Logs of Colorado*. Denver: Rocky Mountain Association of Geologists, 1960.  
Toth, M.I., and S. J. Soullier. *Geology in Bankey, V., Soullier, S. J., and Toth, M. I., eds. Mineral Resource Potential and Geology of the Routt National Forest and Middle Park Ranger District of the Arapaho National Forest, Colorado*. U. S. Geological Survey Professional Paper 1610, 2000.  
Tweto, Ogden. *Geologic Map of Colorado*. U.S. Geological Survey State Map Series, scale 1:500,000.



Fig 3- Unnamed dike intruding Coalmont Formation near Willow Creek Pass. Photo by author



Fig 2 Dike radiating out from West Spanish Peak. Photo courtesy of Sangres.com.

Fig 4-Side view of dike in Fig 3. Photo by author.

Fig 4-Side view of dike in Fig 3. Photo by author.



Fig 4-Side view of dike in Fig 3. Photo by author.

### REFERENCES CITED

- Donnell, J. R. *Geological Road Logs of Colorado*. Denver: Rocky Mountain Association of Geologists, 1960.  
Toth, M.I., and S. J. Soullier. *Geology in Bankey, V., Soullier, S. J., and Toth, M. I., eds. Mineral Resource Potential and Geology of the Routt National Forest and Middle Park Ranger District of the Arapaho National Forest, Colorado*. U. S. Geological Survey Professional Paper 1610, 2000.  
Tweto, Ogden. *Geologic Map of Colorado*. U.S. Geological Survey State Map Series, scale 1:500,000.



## PERIDOT CLAIM RULES & REGULATIONS

1. Dig at YOUR OWN RISK; CSMS will not be liable for injuries or loss of property.
2. Hand Digging Only – No Explosives or Machinery of any kind. All holes must be refilled before leaving the claim. (This claim is in an area of open range, and we don't want to break the leg of any cows or horses, let alone other members.)
3. The Claim is available to club members only and guests as arranged by CSMS-sponsored Field Trips.
4. Anyone who digs must also be available for reclamation.
5. Club members are to call Ronald "Yam" Yamiolkoski at 719-488-5526 or send an e-mail to [ron.yamiolkoski@aecom.com](mailto:ron.yamiolkoski@aecom.com) or [TheYams@g.com](mailto:TheYams@g.com) before digging for assessment and access reasons. They should provide the name of everyone going to the claim and their address & phone number.
6. Stay on claim indicated by posts with bright red tops – there are several other claims in area.
7. Pick up all trash even if it is not yours. (The site is currently clean.)
8. No overnight camping.
9. Do not dig up any live trees.
10. Absolutely NO COMMERCIAL DIGGING!!!
11. There are some Indian artifacts in the area. They must be left alone; no collection of these materials is allowed.
12. All fences in the area of the claim are to be honored and not destroyed in any way.
13. If you find a gate open, it should be left open. If you find a gate closed, open it and close it behind you. In other words all gates should be left as you found them.
14. Please stay on the roads as much as possible without blocking the roads for use by others.
15. If you see any damage to the claim posts during your visit, correct the problem if possible or let Ronald "Yam" Yamiolkoski know ASAP.
16. Follow all US Forest Service & American Federation rules and regulations. One of the rules is that no vehicles may leave designated roads in the area. (The Forest Rangers know that this is our site and said they may come out to see what we are doing.)

### Directions

Starting at the intersection of US-24 and SH-9 near Hartsel, CO, head south on SH-9 for approximately 2 miles to the intersection of CR-53. Turn right onto CR-53 and proceed for approximately 24 miles on CR-53 to the intersection of CR-86. (CR-86 is not marked but is a right turn off of CR-53 after the Badger Creek Ranch Road turnoff.) Turn right onto CR-86, and you will come to a gate which is usually closed. You may open the gate to pass, but close it (if that is the way you found it) after entering. Continue on CR 86 (westward) over Badger Creek (**Do not attempt to cross Badger Creek without 4 wheel drive**) until you come to a fenced-in area on your left hand side. You may park at this point and precede the rest of the way by foot to the claim area.

As you follow the fenced-in area along its eastern perimeter, you will come to a gate. As before, open the gate and close it behind you and proceed up the hill for a little over ¼ mile to enter the claim area. The claim extends up into the trees at the top of the hill, and there are corner posts (red topped) and Points of Discovery Posts (green topped) that delineate the Claim. The approximate center of our claims is N 38 deg. (See *PERIDOT* on pg 8)

## PEBBLE PUPS FIELD TRIP TO LEADVILLE

By BILL CAIN, CSMS

**W**ell, hey there, ya'll. It was a really nice day for searching for pyrite; wasn't too warm, stormy, or any of Colorado's famous weather. Just a really nice day.

**Roger Pittman** and his dog **Blaster**, **Steve & Shelly Veatch**, **Mike Wheat** and **Allen Osborn**, **Rob Weiss** and his sons **Nicholas** and **Ryan**, my granddaughter **Khya** and **Penny** the rock-hound gathered to find some "fool's gold". Blaster and Penny were quite happy to help us in the digging or just keeping us company when they weren't off exploring.



The waste mounds were covered with small, glittery pieces of pyrite that warranted looking at, but if you wanted the larger stuff, you had to dig for it. Some of the mounds were rather steep, as I found out trying out the fancy mountain boots my wife got me. Those "super grip soles" don't work so good on the slick surface of the matrix that holds the pyrite. That was a 30' slide I don't wish to take again. Sure was glad Roger didn't have his camera. ☺

You could get a nice view of Turquoise Lake from the top of the mounds.



All in all, it was a pleasant dig but a rather long trip. I enjoyed it and I'm sure the kids did.

Thanks to Roger and Steve for their time, patience, and knowledge they share with us.



Following the Rocky Mountain Federation Convention and Show in Tulsa from Nov. 7-9, we will be offering a field trip to southwestern Arkansas for Quartz Crystals and Diamonds. There are many rock shops in that area too. This trip will take place on Nov. 10 & 11 (Monday & Tuesday). People wishing to stay longer can do so, as there are a number of fee sites for collecting quartz crystals.

On Monday we will be collecting quartz crystals at Mt. Ida. This is about a 3-3/4 hour drive from Tulsa, not counting stops. There are several quartz mines around Mt. Ida that charge anywhere from \$20 to \$45 per day. For groups of 10 or 15 people that fee is often cut in half. We don't know which mine we will be going to, which will be best depends on how long since they have bulldozed or blasted. Finding plenty of quartz crystals is a **sure thing**.

Tuesday will be spent at Murfreesboro at the Crater of Diamonds State Park which is about a one hour drive from Mt. Ida. The chances of finding a diamond are not great but it is an interesting facility with various activities relating to the history of diamond mining there. Currently the charge is \$5.75 per person. Our trip leader, Ellsworth Noel, has found close to 20 diamonds there. He has contacts for the best locations and can borrow the necessary equipment for the diamond area.

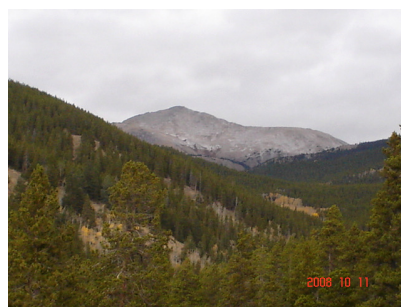
During the show, we will have 'field trips' to the Elsing Museum at Oral Roberts University. Willard Elsing had an outstanding collection which is now on display at the museum. Our club also has its workshop at the University, just a couple of doors down from the museum. This is only a 20 minute drive from the show site.

If you are interest in the Arkansas field trip, please contact Ellsworth Noel at (918) 269-5013 or <ewnoel@olt.net>. It is not necessary to sign up in advance, but we would appreciate having an idea of the number who might attend.

## THE LONG AND SHORT OF IT FIELD TRIP TO MISSOURI RIDGE

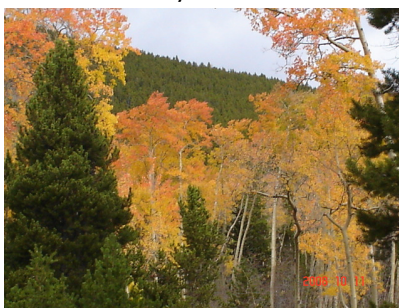
BY LORRIE HUTCHINSON, CSMS

Only Andy met us at the WalMart parking lot in Salida. I had checked several weather reports and all had said early morning and late afternoon showers with highs in the sixties. I was optimistic we could get some digging in between the rains. The wind was blowing, but there were patches of sun so we headed



up the mountain. Mike and I were pulling a trailer with ATVs so he would have something to do while I dug for crystals. I had assured him the road was just gravel. He remembered steep and rocky. As we turned the corner about a mile up the nicely graveled road, a deer stood in the middle looking at us. She seemed to be wondering what we were and why were we there. Unfortunately, the camera was on the ATV.

Many aspen were still vibrant with color, and I was excited about the day. Around a few more bends, the road became



steep and rocky as Mike had remembered. (Oops, high clearance vehicle needed.) We bounced and jostled the rest of the way to the top, climbing close to 5000 feet in 6 miles. Reaching the parking area, we discovered the ATVs had shifted enough to break a tie down strap, the battery was dead on Mike's ATV, and,

as we surveyed the digging area, snow flakes were beginning to fall. In less than a minute we were standing in a blizzard. Andy was not going to tackle the steep slopes of the mountain, Mike could not ride his ATV (he was too disappointed to ride mine), and we had no idea if and when the snow would stop, so the field trip was over. It took longer to drive there and back than the actual field trip.

Well, the sun is out today, and I am ready for another adventure!

(Photos by the author)

## COMING EVENTS . . .

**S**tart planning for the events that will occur in the next couple of months:

**November 20**—Election of 2009 officers, General Assembly

**December 6**—Annual Silent Auction and Bake Sale, Embassy Suites

**December 18**—Annual White Buffalo Holiday Party, General Assembly

**January 15**—Annual Officer Installation and Awards Banquet—Embassy Suites (registration required)

**Nov 1-Jan 31**— Discounted Membership renewal = \$25/family, \$15/Individual, \$5/Junior. Prices increase after 1/31/09.

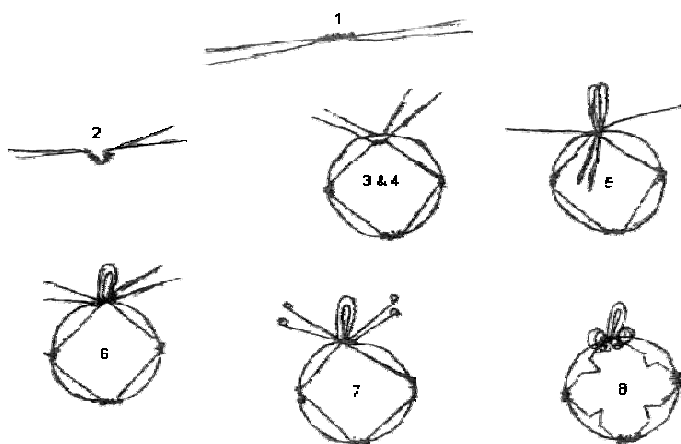
## WIRE WRAP A COIN BY GEORGE FINLEY, SHAWNEE SLATE , 9/08

**I** don't want to do anything that would deface a coin. By wire wrapping with 24 gage gold-colored craft wire, you can display and show off your prize coin.

A rough way to come up with enough wire is to measure the length and double. Then measure the width and double. Add about 2". You need the 2 wires the same length.

1. Lay the 2 wires side by side. At the middle, twist the 2 wires together. Then use round-nose pliers to make a saddle for the coin to sit in. You can use a clothes pin to hold the coin in the saddle.
2. One at a time, move the wires up each side, with 1 in front and 1 in the back. Halfway on each side of the coin, make a twist like the bottom without the saddle.
3. Now take a wire from each side on the front of the coin and make a couple of twists up near the top of the coin. Do the same on the back of the coin.
4. Next pull up on the wires on the front and back of the coin and make a couple of twists at the top of the coin. Most of the time I have 2 wires that are longer than the other 2.
5. Take the 2 shorter wires and move outward so they don't get in the way. Take the 2 longer wires and fold over to make an eyelet for whatever size you want for your project. To keep the eyelet from coming undone, take a couple of twists in the eyelet. Take 1 short wire and 1 eyelet wire and make a twist up near the eyelet. Do the same with the other 2 wires.
6. Pull all 4 wires up and cut off the wire so all 4 will be the same length. Take round-nose pliers and make a very small loop in the end of each wire. You want the wires only long enough to make a spiral with each one.
7. Most of the time these spiral wires are about 1" long. A small spiral will look good and not detract from your project.
8. To make your project look even better and to tighten the wires between the twists on the front and back of the coin, use round-nose pliers and hold upward and make a little offset in each wire. Don't let the pliers slip as this will damage and make a weak place in the wire. I have smoothed out these nicks by using a wood dowel.

NOTE: If you can find NON-TARNISH 24 Gage Craft Wire, you should use it because other wire that is not non-tarnish will become dull after a while.



## GOLD CAMP ROAD

BY RAY BARRY, CSMS

**T**he September field trip to the closed section of the Gold Camp Road was a pleasant outing for 21 CSMS members and 2 guests. The weather was clear and warm, and everyone got lots of exercise climbing up and down the steep slopes of Stove Mountain.



Gathering for Ray's pre-trip instructions.

Ray Barry led the trip, as usual (he's the only who knows where the key is hidden☺), and though he dug in many pegmatites, he came up empty handed. **Dave Espinosa**, a guest, found a few small smoky quartz crystals which he gave to less fortunate members. No one got lost this time, and we were all ready to leave at 4 pm, as planned.

Members who might like to hike to the area along the road should be aware that there are now at least 5 mining claims along the road near the Fairview area, which is a spur of Stove Mountain. Ray has a map showing the layout of these claims and anyone wanting to see the map can call him at 598-7877.

**Frank Rosenberg** has kindly supplied photos taken on the outing.



Members finding treasures on Stove Mountain





## PERIDOT (CONTD FROM PG 5)

42' 23.75", W 105 deg. 51' 25.775" where you should find a red topped post. From there, the Claim area extends north for 600 feet, south 600 feet, west for ¼ mile (1,320') and east for ¼ mile.

### Collecting Suggestions

The peridot crystals are on the surface, and every time it rains more crystals are revealed. The simplest way to collect is to literally crawl around with a small container and a pair of tweezers.

If you want to use sieves, you will need two sieves. The top sieve should be either a ½" or ¼" mesh sieve with the bottom sieve being approximately ⅛" mesh. After shaking, always check the top sieve for larger crystals before discarding. The bottom sieve will contain the peridot concentrate. Crystals can be picked out onsite or the concentrate can be taken home for picking out at a later date. Any hole dug should be filled and leveled before moving on.

## WE DID IT!!

The November AFMS Newsletter listed the AFMS 2008 Bulletin Editors Contest winners. As you recall, the national show was cancelled due to the rack and ruin of Hurricane Ike to the Texas Gulf Coast, so the winners were published in the newsletter.

### Adult Poetry:

**2nd—Messages in Stone** by **Steven Wade Veach**

### Original Adult Advanced Article:

**3rd—A New Park County Gem Discovery: Tarryall Fire Agate** by **Steven Wade Veach**

### Large Bulletins:

**3rd—Betty Cain**

### Special Publications:

**4th—What It's All About** by **Betty Cain**

**5th—Show Committee Performance Booklet** by **Betty Cain**

This contest is NATIONAL recognition for CSMS. What a great honor! I would personally like to thank all of our contributors; without your input, it would not have been possible. Keep up the great work!

## ASK A GEOLOGIST

BY MIKE NELSON, CSMS

Justin writes: *While riding my ATV north of Woodland Park near Rainbow Falls, I noticed a very prominent and conical peak to the west. Do you have a name and information for the mountain?*



I drove up to Rainbow Falls to confirm my suspicions that the peak in question is Signal Butte (another name, according to the USGS GNIS is Cheops Pyramid). The peak, not really a butte at all (butte = an isolated, limited tableland capped with a horizontal and protective covering. Thornbury, 1962), is not readily visible from U.S. 24 nor from the lowlands of CO 67 north of Woodland Park. Signal Butte is located at Lat. 39.05860 degrees N and Lon. 105.2228 degrees W and is

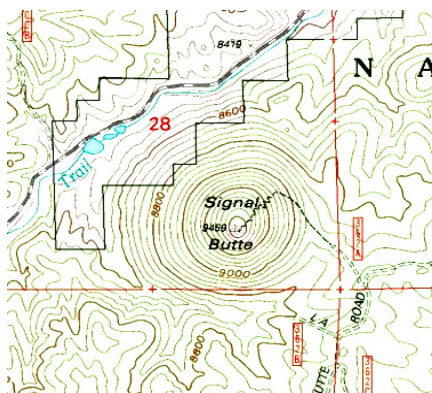


Fig 1—Topographic map of Signal Butte, Teller County, CO showing prominent conical landform associated with the peak. From MapCard.

best accessed from Divide—north on Teller Co. 51 for 11 miles, right on FS 363 (Phantom Creek Rd.) for 0.6 miles until FS 362 (Signal Butte Rd.) for 3.3 miles. There is a small parking area and the route to the summit seems obvious. One can also access the Butte from CO 67 near Westcreek; however, the roads are 4-wheel drive, several are washed out, and most of the land is private. Whatever the route, the Butte is obvious as a distinctly shaped conical peak at 9459 feet in elevation and nearly a thousand feet above the adjacent creek (Figs. 1 & 2).

From a geological point of view, Signal Butte is interesting as it exposes middle Tertiary igneous rocks (~1/4 sq. mile) almost in the center of the massive Pikes Peak Batholith (~1300 sq. miles, Tweto, 1979). The Batholith, with exposures of pink granites and pegmatites, has been intruded (igneous magma cooling below the surface and within the granite) by gray colored igneous rocks

"of felsic to intermediate composition with an age of 20-40 M.Y." (Tweto, 1979). I have been unable to locate much additional geological information about Signal Butte but will continue to search the literature. The rocks that I collected from the Butte (Fig. 3) are dark gray in color, and with a texture close to aphanitic (fine-grained) to porphyritic (larger crystals within the groundmass) with visible lathes of feldspar crystals. Wilson and Bryant (2006) stated the rocks at Signal Butte were a "pyroxene-hornblende trachydacite" from a "plug". Trachydacites contain major amounts of sanidine feldspar with minor quartz. The Signal Butte rocks contain the accessory minerals pyroxene [group] and hornblende. If Wilson and Bryant (2006) are correct and the Butte is a plug, then the magma crys-



Fig 2—Photo of Signal Butte, view looking southwest. Photo by author.





Fig 3-Igneous rocks, pyroxene-hornblende trachydacite, associated with Signal Butte. Photo by author.

tallized in a neck and/or volcanic vent. At a later date, erosion removed the surrounding granite and the plug was left as a major landform (Fig. 4). Perhaps the rocks are hypabyssal and cooled in an intermediate position between the surface and deep within the crust---the volcanic neck never reached the surface. That might explain the somewhat larger crystals (larger than basalt crystals) in the rocks that I observed. Please understand that I am out of my comfort zone describing the probable origin of Signal Butte without a more detailed

study. However, Tweto (1979) did show a fault extending north from the Butte; perhaps, the magma came from a zone of weakness in the granite.

Wilson and Bryant (2006) have provided fission-track dates of 42.2 to 45.2 M.Y. for the trachydacites--an Eocene event. That seems to be the approximate age of plugs near Boreas Pass west of Como but suggesting any relationship to these rocks are beyond my knowledge. The dates do seem to be in the middle between the major igneous events of the Laramide Orogeny (~60 to ~80 M.Y.) and the outpourings of volcanic rocks in the Oligocene (~25 to ~30 M.Y.).

Signal Butte is in the area devastated by the Hayman Fire of 2002. This burn consumed forests and buildings on nearly 140,000 acres of land and caused damages in the tens of millions of dollars. I did notice that some new pine trees have reached two feet in height and some aspens are now up to four feet so the forest is slowly returning. However, it will take hundreds of years for the streams, now clogged with sediment, to return to some semblance of local base level and equilibrium. A fantastic photo of the fire burning on Signal Butte may be observed on the Teller County website at: <<http://www.co.teller.co.us/HaymanFire/HaymanInfo.htm>>.

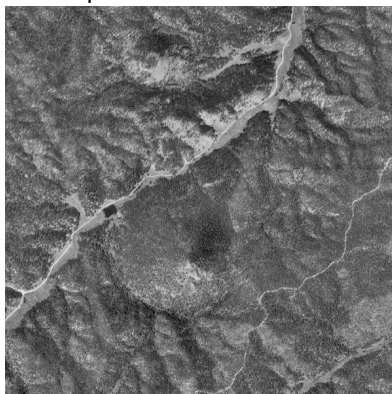


Fig 4-Air photo of Signal Butte, pre-Hayman Fire, showing conical shape of Butte. Compare with topo map and photograph. From MapCard

Signal Butte has a fabulous view from the summit, is an object of geological interest that is close to Colorado Springs, and worth the easy trip to observe to some rather different rocks. After all, how many of the readers have seen an example of pyroxene-hornblende trachydacite?

#### REFERENCES CITED

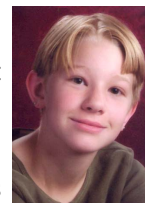
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- Wilson, A. B. and Bruce Bryant. *Isotopic Ages of Rocks in the Northern Front Range, Colorado*. U. S. Geological Survey Open-File Report 2006-1051. 2006.

Have a question concerning geology? Send it to [csrockguy@yahoo.com](mailto:csrockguy@yahoo.com), and look for an answer in the Pick&Pack.

## CSMS' FIRST-EVER JUNIOR ACROY!

The Colorado Springs Mineralogical Society's Pebble Pups program is alive and strong after a hiatus of several years, and I, as the leader, am proud to nominate **Miss Khya Prewitt** as our first-ever AFMS Junior Rockhound of the Year.

Khya was there at the first Pebble Pups meeting and continues faithful attendance and participation in the programs. She shared her specimens with a display in our Pebble Pups case at the June Show, brings a friend to almost every meeting to introduce them to rockhounding, received a certificate and has her specimen displayed on the NASA *Rock Around the World* website <<http://marsprogram.jpl.nasa.gov/rockworld>>, rock number RATW08752), and is always ready and willing to assist me with the classroom presentation by passing out specimens and handouts, carrying the leftover material to my car, and tidying up the Pebble Pups room when we leave.



Khya makes sure the younger Pups feel welcome and not afraid to participate in class. She proudly displays her FRA badges on her Pebble Pups vest and has also entered a display in the upcoming RMFMS Show in November.

Khya's knowledge of rockhounding is growing as she does, and I know geology will always be a part of her life.

Sincerely,

Steven Wade Veatch

CSMS Pebble Pups & Junior Leader

### CONGRATULATIONS, KHYA!

(from the AFMS Newsletter, 11/08)

## IN THE NEWS...

CSMS member **Nick Morales** was featured on the front page of the Gazette's *Your Businesses* in the 10/16 edition. The article reported Nick and wife **Linda's** involvement with CSMS.

Way to go, Nick! That's great PR for our club.

## BOB KING—WY ACROY


**Bob King** is a long-time CSMS Life Member (since 1992) who moved to Wyoming after retiring from teaching. He was CSMS VP and also Editor in the 70's.

Bob revitalized the Cheyenne Gem and Mineral Society when he moved to Wyoming and has served as their president. He was recently selected as the "Wyoming Rockhound of the Year" for 2008. Our heartiest congratulations, Bob!

Bob has been researching a Wyoming location to collect beautiful blue barite crystals and will be sharing that info soon. Perhaps we could arrange a field trip in 2009 to that area with Bob's help.

When Bob next visits Ray and Eloise Berry, we hope he will attend a General Assembly.

### TIPS & TIDBITS:

 **Making a Doublet by Don Brenholtz** — Have you ever had a beautiful stone with small pits or imperfections that can't be sanded out? Here's what you can do. This works great on a lot of the agate.

Making a doublet is simply gluing a quartz cap on the top of the stone to be made into a cabochon. There are several advantages to this. 1) You can buy the quartz caps already finished. 2) It solves the problem of imperfections in the stone as the glue between the quartz cap and the stone makes them invisible. 3) Because the quartz cap already has a dome on it, you can use a much thinner slab. This lets you get more slabs from a stone.

Pick your stone and the size cab you want to make. Mark and cut it as usual. Leave the perform slightly larger than the cap. Then finish grinding it to size after the two are joined. By grinding with a slight angle to the back, you can get a perfect match without getting into the cap. If you have a large slab, you might want to glue several caps on it, then cut it apart after the glue has set. The top of your stone should be perfectly flat. Sand it smooth. A flat lap is best for this. Do not polish it as the glue will adhere better to a slightly rough surface.

Here is the tricky part: you must be sure there are no air bubbles trapped between the quartz cap and stone as these will show up as a silver streak after it sets up. Clean the stone and the cap with acetone to be sure they are free of any oil. A trick I use is to mix the epoxy, and then heat it a little over a light bulb. This thins it a little and tends to make it easier to get any air bubbles out. Be sure the stone is covered evenly with the glue. You can make your own from plate glass, but they will not be a durable as quartz. *Source: The Informer 3/08 via Frederickburg Rockhound News 5/08, Midland Gem & Mineral 6/08, The Rockytier 7/08, The Stone Chipper 9/08, Beehive Buzzer, 11/08*

## GENERAL ASSEMBLY MINUTES

OCTOBER 16, 2008

BY JOHN CASTO, CSMS SECRETARY

**T**he meeting was called to order at 7:30p by Rick Copeland.

A motion was made to accept minutes as printed in Pick&Pack, seconded, and passed.

Guests attending were Don & Carolyn Jamison.

Treasurer's report was given by Rick Copeland for Ann Proctor who was unable to attend due to an injury. Rick reported that the Cripple Creek & Victor Mining Company paid for the Show ad in the Gazette. A thank-you letter has been sent to Transit Mix and CC&V for their generous donations.

In accordance with the CSMS Constitution Article VI, the By-Laws 'may be amended at any General Assembly meeting of the Society by a two-thirds (2/3) vote of the members present, provided such proposed amendment has been submitted in writing at its previous meeting and read to the assembled members.' Rick read the following proposed changes to our By-Laws that will be voted on at the November General Assembly:

- Article IV – Quorum, Paragraph 2: A quorum shall consist of five (5) Executive Committee members present for any Executive Committee Meeting.
- Article V – Dues, Paragraph 2: Junior Membership Dues shall be increased from \$2 to \$5 per year beginning January 1, 2009 because of the cost of current dues to the Rocky Mountain Federation of Mineralogical Societies and American Federation of Mineralogical Societies of \$1.50 per member and liability insurance of \$3 per family/household per year.
- Article VI – Society Funds, Paragraph 2: In case of emergency, checks may be signed by the President or the Vice President.
- Article VI – Society Funds, Paragraph 3: The auditor or auditing committee shall receive the Treasurer's records within fifteen (15) days following the November election or changing of the Treasurer.
- Article VII – Awards shall be renamed Article VII – Awards & Scholarships.
- Article VII – Awards & Scholarships shall be updated to include Paragraph 4 for the Annual CSMS College Scholarship.
- Article VII – Awards & Scholarships shall be updated to include Paragraph 5 for the Florissant Fossil Beds National Monument summer intern scholarship, recipients to be selected by the President of the Friends of the Florissant Fossil Beds.
- Previously approved resolutions not already done so shall be incorporated into the Society's By-Laws under the appropriate Article and Paragraph.

The satellite groups report a great fondness for cookies and have them at most meetings.

Old Business—Report from Mike Wheat on the status of the reformation of the Colorado Federation of Gem & Mineral Societies. He gave a brief update as to what they were, why they formed, and eventually disbanded. Prior to the Denver Show, Mike sent out a request to all 14 Colorado rock clubs to meet at the show to discuss the reformation of the group. At the meeting, 8 of the 11 groups attending voted to reform the CFGMS. Mike has since sent a letter to those 8 clubs asking them to send 1 person each to meet with him and contact him for more information. As of the General Assembly, he has not received any responses. He will provide updates as they occur. Member Questions: 1) How would we pay dues to CFGMS; would a small portion of our membership dues be paid? Yes; the details will be worked out. 2) Would this group take over (See MINUTES on pg 11)



# MINI MINERS MONTHLY

FROM DIAMOND DAN PUBLICATIONS USED WITH PERMISSION



**A** long time ago, in 1934, a mineralogist named George Letchworth English wrote a book for serious mineral collectors called *Getting Acquainted with Minerals*. He wrote a special chapter about the funny shapes that some minerals have and he called them "Mineral Pranks." Perhaps you even have some samples in your own collections.

Some mineral collectors even specialize in certain "mineral pranks." Some collect only twin crystals. Other collect only specimens with inclusions.

**Bow-Tie Crystals**—A single stilbite crystal looks like a thin blade, but when thousands of stilbite crystals grow together, they can form groupings of crystals that look like an old-fashion bow tie.

**Dendritic**—"Branching" Some minerals form growths that look like branches on a bush or small tree. They are described as looking like plants. This is similar to *arborescent*.

**Enhydro**—"Containing Water" There are a number of minerals in which water plays a part in their formation. In igneous rocks the water is super hot. In sedimentary rocks the water is cooler. Some crystals have small air pockets *inside* the crystals, and in the air pockets are small bubbles of water! When tilted, the bubbles move back and forth, like a bubble on a carpenter's level.

**Eye Agate**—"Here's Looking at You" Agate is a form of quartz that has bands of different colors. Some agate specimens, when cut and polished properly, reveal circular bands that look like eyes.

**Fibrous**—"Like a Fiber" Some minerals can break into very thin, flexible fibers. These fibers can be short of very long. Asbestos is a mineral that breaks into fibers.

**Inclusions**—"Something Trapped Inside" When crystals form, they can trap other minerals or objects inside. When something is trapped inside a crystal, it is said to be "included" in that crystal.

**Pseudomorph**—"False Form" The word *pseudomorph* is made up of two Greek words: *pseudo* means *false* and *morphe* means *form*. A pseudomorph starts off as a particular mineral, but when the chemical environment changes, the chemistry of the mineral changes.

The Atacamite is the weirdest pseudomorph you will ever see! Yes, it is a mouse. It died in a copper mine in Russia. After the poor little mouse died, it didn't decay. It was replaced with the copper mineral, atacamite. Atacamite crystals also grew on its back and tail.



**Reniform**—The word *reniform* is from the Latin words *renes* which means *kidney* and *formis* which means *form*. In other words, it describes a mineral that looks like a kidney.

**Reticulated**—Anything that is described as "reticulated" is built in a way that forms a pattern or network. Some minerals, like rutile and cerussite, can crystallize and form long, thin crystals that grow in criss-cross patterns.

**Rosettes**—There are some minerals in which many individual crystals grow together in such a way that they resemble a flower. The minerals that typically form rosettes are gypsum, barite and hematite.

**Crystal Twins**—Most often, minerals form single crystals or groups of single crystals. There are time when two or more crystals grow together. When two crystals grow together, a *twinned crystal* is formed.

## MINUTES (CONTD FROM PG 10)

the Contin-Tail? Yes, the LLC group running the show now will give the rights over to CFGMS.

New Business—Yam gave an update on location of next year's show. Meeting has taken place with Phil Long Expo. They would be more flexible with costs and honor it for 3 years if we moved our show to December; Phil Long Expo will be charging \$1 per vehicle for parking. We can still have our show at Phil Long in June, but the cost will double. This generated a lot of discussion about other venues and the pros and cons of each. We still have much to discuss about our options. Should you know of a good location, please contact Rick Copeland.

Rick reports that the Board is looking for a Vice President candidate for 2009.

Shelia Dobler has copies of Rick's presentation from last month's presentation. If you would like a copy, please let him know.

Dennis Beal is starting a new trend by inviting the CSMS to chili at his house; too late of a notice to get to you in time, but thank you, Dennis, for the offer.

Betty Cain reported that the Senior Center now requires all satellite groups meeting at the Center to sign up for next year. They are also requesting that each group meeting be documented with number of attendees, etc. for their reporting to the City of Colorado Springs. This is a reminder to leaders of all satellite groups to contact the Senior Center now to ensure you don't lose your room or scheduled day!

Meeting ended at 8:35p and refreshments were served.

Brian Small of the Denver Museum of Natural History gave the presentation "Gone Fishing in the Jurassic Lake." Thank you, Brian, for an excellent presentation.

CSMS membership dues may be paid from now until January 31, 2009 to receive the \$5 discounted price:

Juniors—\$5

Individuals—\$15

Families—\$25

See the Membership Chairman to obtain an application or download one from our website <[www.csms.us](http://www.csms.us)>

<i>Sunday</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
<b>NOVEMBER 2008 — CSMS CALENDAR</b>						<b>1</b> 12n Lapidary Group
<b>2</b>  Daylight Saving Time Begins—Fall Back	<b>3</b>	<b>4</b>  ELECTION DAY	<b>5</b>	<b>6</b> 7p Board Meeting	<b>7</b> RMFMS SHOW Tulsa	<b>8</b> RMFMS SHOW Tulsa
<b>9</b> RMFMS SHOW Tulsa	<b>10</b> RMFMS SHOW Tulsa	<b>11</b>  VETERANS DAY 7p Micromounts Group	<b>12</b>	<b>13</b>	<b>14</b> 7p Crystal Group	<b>15</b> 12n Jewelry Group
<b>16</b>	<b>17</b>	<b>18</b> 7p Fossil Group	<b>16</b>	<b>20</b> 5:15p Junior Group 6:30p Pebble Pups 7:30p General Assembly Meeting	<b>21</b>	<b>22</b>
<b>23</b>	<b>24</b>	<b>25</b> 7:30p Camera Group	<b>26</b>	<b>27</b>  THANKSGIVING	<b>28</b>	<b>29</b>
<b>30</b>	<b>12/1</b>	<b>12/2</b>	<b>12/3</b>	<b>12/4</b>	<b>12/5</b>	<b>12/6</b> Annual Silent Auction Embassy Suites

**"It is better to deserve honors and not have them than to have them and not deserve them." - Mark Twain**

**REFRESHMENTS FOR GENERAL ASSEMBLY MEETINGS**

Nov—Fossils

Dec—Everyone

PRESIDENT	Rick Copeland	332-7915	rick@rockymountainwonders.com
VICE PRESIDENT	Ron Yamiolkoski	488-5526	theyams@q.com
SECRETARY	John Casto	329-0912	jcasto@fvs.edu
TREASURER	Ann Proctor	684-9010	annmgmt@msn.com
MANAGING EDITOR	Betty Cain	634-8205	bcain2@earthlink.net
MEMBER-AT-LARGE	Mike Nelson	522-1608	csrockguy@yahoo.com
MEMBER-AT-LARGE	Charles Webb	392-7214	
PAST PRESIDENT	Drew Malin	531-7594	advanceone@comcast.net
MEMBERSHIP DIRECTOR	Bill Cain	634-8205	bcain2@earthlink.net
FIELD TRIP DIRECTOR	Ron Yamiolkoski	488-5526	theyams@q.com
SHOW CHAIRPERSON	Drew Malin	531-7594	advanceone@comcast.net
LIBRARIAN	Sarah Udell	237-7985	sarahudell@hotmail.com
CAMERA CLUB	Roger Pittman	683-2603	rpittman@netzero.com
CRYSTAL STUDY	Kerry Burroughs	634-4576	kburrou@comcastnet
FACETING GROUP	Dave Wilson	635-7891	dlwilson@pcisys.net
FOSSIL GROUP	Mike Nelson	522-1608	csrockguy@yahoo.com
JEWELRY GROUP	Bill Arnson	749-2328	ritaarnson@msn.com
LAPIDARY GROUP	Rick Copeland	322-6915	Rick@rockymountainwonders.com
MICROMOUNT GROUP	Phil McCollum		acc@frii.com
PEBBLE PUPS	Steven Veatch	748-5010	Steven.Veatch@gmail.com
WEBMASTER	Allen Tyson	268-0775	allentyson@yahoo.com

## Locations

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

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

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

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

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

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

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

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

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



## Regular meetings of various groups

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

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

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

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

### Have You Picked Up Your Membership Award Pin?

If you celebrated a CSMS anniversary in 2007 or 2008, your year pin award is available from the Membership Secretary, Bill Cain.

### Vice President Wanted It's Not Too Late!

November is election time, and we're seeking volunteers to help our club continue moving forward in 2009. Contact one of the current officers to add your name to the slate as Vice President or committee chair NOW.

**Dues R Due**

### NEW CSMS "DIAMOND" BACK BADGES

A new supply of the badges used on the back of our vests has been ordered and should arrive shortly. We can now proceed with vest manufacturing. If you're interested in purchasing a CSMS vest, please contact **Linda Laverty**, [chilipepper24@juno.com](mailto:chilipepper24@juno.com).

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Colorado Springs Mineralogical

# Silent Auction & Bake Sale

**Saturday**

**December 6, 2008**

**10:00 am to 1:00 pm**

Embassy Suites  
7290 Commerce Center Dr.  
Colorado Springs  
(719) 599-9100

**Great gift ideas at  
Silent Auction Prices!!**

- ♦ *New items every 20 minutes*
- ♦ *CSMS Member Vendor Tables*
- ♦ *Sweets to please any palate*
- ♦ *Proceeds to benefit the Satellite Groups*

## Bargains

## Fun!

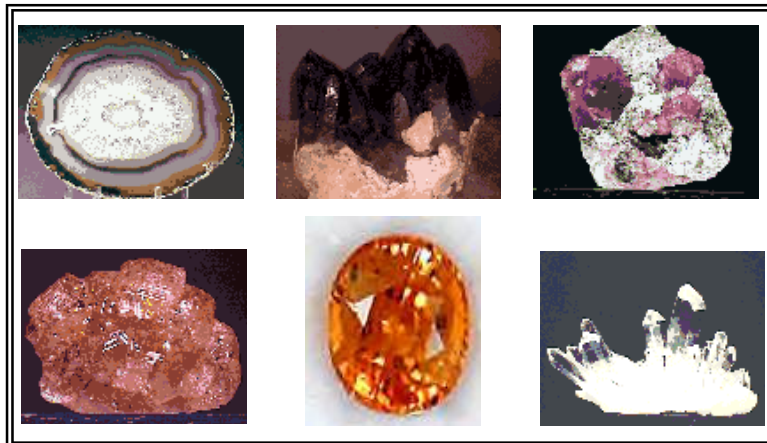
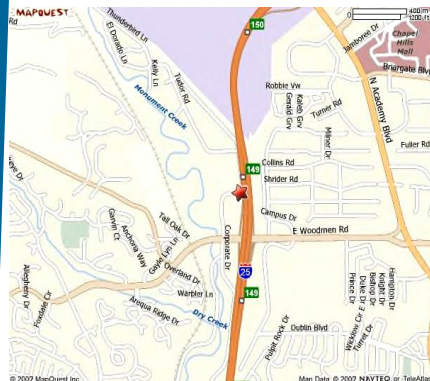
## Baked Goods



Colorado Springs Mineralogical Society

PO Box 2  
Colorado Springs,  
CO 80901  
[www.csms.us](http://www.csms.us)  
[Info@csms.us](mailto:Info@csms.us)

Contact:  
Linda Laverty  
(719) 964-6222  
[chilipepper24@juno.com](mailto:chilipepper24@juno.com)







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

Embassy Suites  
7290 Commerce Center Drive  
Colorado Springs, CO

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

Name(s) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Phone: \_\_\_\_\_

Number of Dinners: \_\_\_\_\_

Number of Vegetarian Dinners: \_\_\_\_\_

Total Number of Dinners: \_\_\_\_\_

x \$18 ea

Total Enclosed: \_\_\_\_\_

MENU:

Tossed Greens with Raspberry Vinaigrette & Ranch Dressing

Chicken Breast topped with Teriyaki Sauce

Served with Rice Pilaf and a Seasonal Vegetable Medley

Dinner Rolls & Butter

Chef's Choice Dessert

Coffee or Iced Tea

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

CSMS  
PO Box 2  
Colorado Springs, CO 80920

BETTY CAIN, EDITOR



**Dues R Due**

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November 2008



## Joining the Colorado Springs Mineralogical Society (CSMS)

General Assembly meetings are the third (3rd) Thursday of each month, except August, beginning at 7:30 p.m. at the Colorado Springs Senior Center, 1514 North Hancock Blvd., Colorado Springs, CO. **Visitors are always welcome.**

CSMS also offers Satellite Group meetings that allow more focused attention in specific areas of our members' interests. Our current Satellite Groups consist of the following: Camera Club, Crystal Study Group, Faceting Group, Fossil Group, Jewelry Group, Lapidary Group, Micromounts Group, and Pebble Pups/Juniors. For details on Satellite Group meetings, see page 12.

Yearly dues include 10 issues of the *PICK&PACK*, all field trips (additional fees may be required on some field trips, and members are responsible for all transportation to and from), participation in all Satellite Groups (some groups may request additional fees to help cover resource costs), free admission to the *Western Museum of Mining & Industry*, a year of learning and enjoyment, plus a lifetime of memories.

Individuals—\$20

Family—\$30

Juniors—\$5

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