



From the President's Pen

Summer is upon us & rock hounding is in full swing! Many of our members have already headed for the hills, lakes, ocean & deserts around us. We look forward to seeing & hearing about some of your finds at our next meeting. August is our annual Ice Cream Social with Show & Tell time. If you like, we'll give you a microphone and an opportunity to tell us a little about what you brought or somewhere you went. We have new members every month, so come early & make a new rock hound friend. There's something about sitting around and talking about rocks, hiking, fresh air & sunsets that invigorates all of us.

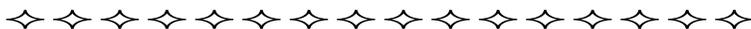
We are still looking for someone to fill a position or two in our great Club. Field Trip Director, Refreshments Chair, Show Custodian, Director of Vestments are ways to help lend a hand. Okay, I made up the last one — You can always ask the last person what they did and sometimes even tailor-make the position to fit you. If you'd like to volunteer for our Club, let an officer know.

Our Lapidary Shop is in need of HVAC work. Evidently the AC motor has gone caput. We've made do so far this summer with a trusty swamp cooler and members with great attitudes - there's no one better than a rock hound to hang out with, but we do need to get something done to bring our Shop back up to modern times.

Let Jim Hutchings or myself know if you have some expertise in that area.

Both Hugh Brady & Nancy Hood will be taking a summer break, so no silent auction nor door prize this month. They will continue again in September. [Note: the \$1 box and the free box will still be available at the August meeting — Editor]

— Teresa Johnson



The club has two Facebook pages; a "Group" page, and a "Like" page. If members could jump on

board with both pages, they would get educational information, club updates about field trips, mineral information, show information, class information, and general lapidary tips.

"Like" Page:

www.facebook.com/pages/Roseville-Rock-Rollers-Gem-Mineral-Society/214099168691394.

"Group" Page:

www.facebook.com/groups/359563453490/. If you join the group, you can post comments or photos to the site.

Educational Program for August 12, 2014

SHOW AND TELL AND ICE CREAM !!

Please bring your best items for **Show and Tell**. Everyone will have a chance to get up and "Tell" for a few minutes.



Talk about your items and give us the stories behind those great finds!

And August is always our **Annual Ice Cream Social**.

Members: please bring your **favorite ice cream, or other dessert item (pies, cakes, brownies, cookies), and/or toppings like sprinkles, syrup, fruit, whatever**. And don't forget your ice cream scoops! Label them with your name. **NO FREEZER IS AVAILABLE.**

Please bring your items around 6:30 so that we can have everything on the tables and ready to go by 7:00!

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MINUTES FOR ROSEVILLE ROCK ROLLERS EDUCATIONAL MEETING JULY 8, 2014

Call to Order at 6:35 p.m. by President Teresa Johnson.

Present: 44 members, 3 juniors and 10 guests.

Flag Salute led by Quentin Stanley.

Invocation – led by Jonathon North

Recess for dinner.

Business Meeting Resumed

Correspondence – Jim Hutchings read a thank you note regarding our 2014 show, sent to him by Assemblywoman, Beth Gaines, who represents the 6th Assembly District.

Introductions – guests present introduced themselves.

Drawings – winners were: Member, Janet Longueira; Junior, Quentin Stanley and Guest Denise Coyne.

Sunshine – Cyndy Burchard sent a “get well” card to Sherry Anderson.

Juniors – Carole Kowalik reported there were 4 juniors in attendance. Quentin Stanley gave a presentation on copper, and his dad provided samples. Jim Hutchings brought great examples of copper to view. The Mineral Bingo game was played.

CFMS Director – Jonathon shared information on the Earth Science Camp Paradise offered later this summer. He shared the information that a theme (featuring rocks and wine) is needed for the 2015 CFMS Show in Lodi. The deadline for submission of a name is August 1st.

Vice President – members were told the August 12th meeting will be an ice cream social featuring ice cream (a possible ice cream maker contest) and other desserts. Meeting will start at 7:00 p.m.

Vests, Tee Shirts, Pins and Patches – please see Rolf Zschoernig to purchase. Teresa mentioned that Rolf will be retiring as Chair for this position at the end of the year.

Lapidary Class Signups – signup sheets are available, see Judy Osmundson.

Field Trips – Jim Hutchings gave a summary of his annual field trip on July 20th to Duncan Canyon. Details in the bulletin. It was announced that we are still seeking a field trip leader.

Refreshments – a chair is needed to coordinate the refreshments during educational meetings.

Librarian/Historian – Karla Shannon reviewed check out and check in procedures.

2015 Show – no report other than first Show Committee meeting is Sept. 16, 2014 starting at 6:30 p.m.

Lapidary Shop – the air conditioner needs to be repaired.

Old Business – Teresa reported having another tailgater the last weekend in Oct. is under consideration.

New Business –

Revisions to RRR By-Laws – a motion was MSA to accept the proposed changes to the By-Laws as published in the bulletin (See addendum #1).

Revisions to RRR Standing Rules – the revisions to the Standing Rules were published in the July bulletin and an addition was made (See addendum #2). A motion was MSA to approve Carole Kowalik as the Juniors’ Advisor officer. (Revisions to Standing Rules are in addendum #3.)

Adjournment – meeting was adjourned at 7:51 p.m.

MINUTES FOR ROSEVILLE ROCK ROLLERS BOARD MEETING JULY 8, 2014

Call to Order by President Teresa Johnson at 7:52 p.m.

Present: 8 officers

Membership applications – a motion was MSA to accept the membership application from Denise Coyne and Christine Davis.

Adjournment – 7:54 p.m.

Respectfully submitted,

Florence Brady, RRR Secretary



Why Is There Silverware?

The real reason for silverware use in the past was for health and sanitation reasons. Just like the 49ers put silver dollars in their water barrels, and Europeans for hundreds of years used silver water jars (if they could afford it) or put silverware or silver coins in their water if they had them, and of course, used “silverware” in the first place, is because it was noticed that molds and bacteria didn’t build upon silverware as it would on other materials.



A natural property of ionic silver is to kill bacteria. Viruses hate the presence of silver as well. It is a little known fact, that if you take a Petri dish and culture just about any nasty thing you can think of (mold, algae, bacteria, or virus) and add ionic silver, the contents of your Petri dish will die. The doctor who wrote the book “The Body Electric” had great success speeding up the healing of burns and wounds, and healing wounds that “wouldn’t heal” by applying silver mesh and a small battery current (knocking off silver ions onto the affected area).

For more information on the use of colloidal silver as related to health, there is a website called Silver Gen that has a lot of information: www.silvergen.com/colloidal_silver_history.htm

Here is a quote from that site:

“Colloidal silver has been used for healing for centuries. The Greeks and Romans kept liquids in silver jars. During the plagues in Europe, many royal families escaped disease because they ate off silver plates and used silver utensils. It was used by the American pioneers to keep water and milk from spoiling or becoming contaminated.”

It is used by NASA to purify water in the space shuttle. Russia also uses it in their space shuttle. It is used by some airlines to purify water on flights. Thin silver foil is still used in India and China to wrap portions of food in. Silver is used in most of the burn centers in the U.S. and has been used to prevent blindness in newborn infants’ eyes for many years.

Source: *Quarry Quips* 9/10

Letter of Appreciation

Dear Florence and the Roseville Rock Rollers,

I just recently joined your group and am now starting to collect rocks and gems. This is a general letter to thank Jon North for helping my husband and me at the rock sale at 176 E. 7th Street in Lincoln today.

I inadvertently left my bucket at home, so Jon let me borrow one of his orange buckets. As I scrambled through and over the rock piles out in the hot sun searching for interesting rocks and carrying my spray bottle, I discovered some larger rocks that would work well in our yard at home, so I called my husband and asked him to come over to take a look. He really liked a certain chunk of petrified wood, but he couldn't lift it or carry it to our car. Jon was willing and able to help him get the heavy rock into his wheelbarrow and out to the car. What a job that was!! We really appreciated his thoughtfulness and help!!!

It was also neat to talk to other rockhounds during the process. We were all out there perspiring together....having so much fun!

When we got home, our neighbor came over with a hand truck and helped my husband transfer the petrified wood to the garden, where it has found a nice place to sit.

Please convey our thanks to Jon North.

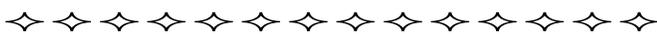
Carla (and Jerry) LaFave



SILENT AUCTION -- AUGUST 2014

There will be NO Silent Auction at the August meeting. Your auctioneers have decided that they need a break. However, there may be some items for instant sale such as our \$1 box and our geodes/ thundereggs box from the last meeting. Also, there should be a free box so check out the table and see if there isn't something you must have.

Your auctioneers,
Janet and Hugh



Did You Know . . .

According to geologists, the earth is made up of six layers, like a cake, and the similarity is carried even further with nuts sprinkled on top.

From Fractured Agate via Glacial Groove 12/00



Welcome New Members

Denise Coyne
Christine Davis

Thanks for joining our club! See you at the August meeting!

Rookie Rock Roller News



The Rookies will meet Tuesday, August 12, 2014 in the lapidary shop at 5:30 p.m.

At our Last meeting, we had a wonderful presentation on copper from Quentin Stanley. He brought samples for each of the juniors' collections. Thank you, Jim Hutchings, for adding information and interesting examples of copper. We then played "Rock Bingo" where just about all juniors received a pick from the prize box. Thank you, Florence Brady, for finding that really fun game.

For our next meeting, we will memorize a slew of rocks to help us in the new game that Jim Hutchings found for us called "Rockhounds" by David Gibson.

After our meeting, remember to follow us over to the ice cream social at the adult education meeting.

P.S. If Josh is back in town with his tiger eye presentation, please let me know.

See you all there,

Carole Kowalik, Junior Advisor
916-705-2124 home3004@gmail.com



Sunshine

Get Well cards were sent to Sherry Andersen, Anney Wamsat and Gary Logue.

When you know of any member who is ill or has been hospitalized, please contact our Sunshine Chair, Cyndy Burchard, at 530-346-9481, or cynded0523@yahoo.com.



NO August Board Meeting

Lapidary Classes

Lapidary Classes - Introduction to Shop Use & Cabochon making is now \$10 per class for 5 classes or \$45 paid in full. Our Rock Hound Oasis is staffed Monday & Wednesday nights 5 pm - 9 pm! Learn more about the Lapidary Arts & Cabochon Making. A DVD is available for viewing at the Shop for Cabochon Making. Regular \$5 per day or \$20 monthly rates apply for lapidary shop use after Orientation/Introduction classes.

Shop fee: Daily: \$5 or Monthly: \$20.

Large & Extra Large Saw: \$1 per slab. 18 inch saw & 24 inch saw (\$2 per slab) are available for large & extra large rocks.

Mineral ID with Jim Hutchings

TBA - Sign-up now for Fall class.

Basics of Petrified Wood with Carol Lockhart & Keith Lindholm - combined 25+ years of experience in preparation and evaluation of petrified woods.

Opal Workshop with George Comas

The next Opal workshops will start again in September. TBA on Thursdays at 6 pm. Fee: \$10

Wire Wrapping Class with Jennifer Rhodes

Jennifer is a Master wire wrapper from Reno. Intermediate & Advanced Level. Viking Knit technique for making jewelry.

Saturday, September 27, 9 am - 12 noon. Fee: \$30

Wire Wrapping Class with Judy Osmundson

Work with a wire guru at your side. Beginning & Intermediate Wire Wrapping. Next offering in September. Bracelets, Cabochon or Chain Maille Fee: \$25

Faceting Workshop with Jay Conner

Sign up now for the next offering!

This is an excellent class, it is held offsite by one of our members on a Saturday.

Fluorescents, Petrified Wood & Other Minerals with Don Tadlock Don is an avid collector with an immense love and knowledge of the rocks he collects. Sign-up! - Free - Will have it on a Saturday - Min. 3

Stereo-Microscope Class

The attendees for the last offering were over-the-top with enthusiasm for the class. In-depth, hands-on workshop on identifying gems and minerals, detecting flaws in lapidary material, and enjoying the beauty of smaller specimens. Scopes provided or bring your own. Min. 3, Fee: \$5

Stabilizing Stones with Duncan Penman

TBA - Oct. How to & hands on stabilizing. Use with turquoise, azurite, & more. Max: 7 - Sign-up! Fee: \$10



Lapidary Shop Maintenance Class FREE

Learn how to maintain or put together lapidary equipment for your home. Sign-up for our next offering.

Chain Maille

Jump rings are very important jewelry components. Learn how to make them yourself, and how to make jewelry by connecting metal rings to one another. Please indicate what weave you are interested in.

Sign up for the next class offering.

Fee: \$25.

Tumble On! Rock Tumbling

TBA. Fee: \$10



Beading Cabochons

Learn to make a seed beaded bezel for your cabochons to hold them securely in place. Sign-up & indicate what day(s) & times you have available.

Soldering Boot Camp

with Marilyn Koch Fee: \$25

Introduction to a table top set-up for creating artisan metal pieces at home! Classes with Marilyn are on either the 1st Tuesday night of the month, Friday night or Sunday availability also.

Jeweler's Saw Intro to Advanced Pierce Work

with Marilyn Koch Fee: \$25

Learning how to use the saw to make curves, sharp edges, & bevels. Different sizes & their uses. Classes with Marilyn are on either the 1st Tuesday night of the month or on Friday night.

Lost Wax Cast Class!

with Marilyn Koch Fee: \$25 + materials

Local instructor will be teaching us. Now taking sign-ups! TBA Min 3 - Max 6.

Remember - We ask that you sign up ahead of time for classes. For our classes listed as by appointment or TBA, we build the class based on sign-ups & instructors schedules. In other words, we make the date when we have sign-ups. Our Wire Wrap classes can be set up for a minimum of 3 people.

Shop Clean-up is something everyone does! Use the full surface of the belts - to prevent premature wearing. A DVD is available for viewing at the Shop for Cabochon Making. We occasionally need someone to stop by and empty the 5 gal buckets for our lapidary equipment.

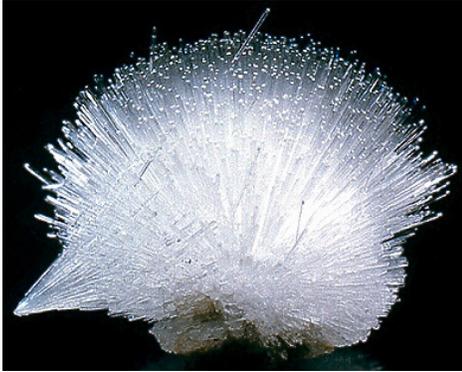
If you want to sign-up for any of the above classes, email:

classesforrockrollers@gmail.com

Teresa Johnson, 916-929-0701.

Hairy Gems

We think of rocks as hard, strong and boring. Then, all of a sudden, we are faced with something unearthly, almost unnatural. How could anything like this exist in the harsh, natural world? Unfortunately, many of these crystal oddities are extremely delicate. They are seldom displayed because of the great possibility of destroying their fragile beauty. So, I have taken the idea of introducing you to some wonderful hairy gems.



Natrolite

Natrolite is a common and popular zeolite mineral. Its radiating sprays of ice clear acicular crystals are a hallmark of this mineral and makes a fine specimen.

an aptly named mineral since cyano and trich are derived from the Greek for blue and hair, respectively. It is formed from the oxidation of copper ore minerals along with other oxidation zone minerals.



Cyanotrichite

Cyanotrichite is a wonderfully colored mineral. Its bright azure to sky blue color is very impressive. Cyanotrichite typically forms acicular or hair like crystals aggregated into radial clusters, tufts and sprays. The color is very impressive for such tiny crystals. It is an



Millerite

Millerite is one of a few sulfide minerals that form fine acicular crystals that appear as hair-like fibers aggregated into sprays. It is a real bonus to quartz geode collectors from Indiana to Kansas to open up a geode and find a spray of brassy millerite crystals tucked inside. Millerite is also called “Capillary Pyrite” since it has a brassy yellow color that is close to the color of pyrite. When found as brassy sprays inside of sparkling clear quartz geodes, millerite can make a wonderfully attractive and interesting mineral.

Other varieties of tremolite is called “mountain leather” or “mountain cork” and is an oddity in the mineral world. The tremolite fibers form a felted mass that has all the appearances and feel of a piece of cloth.

Tremolite is a relatively common mineral in some metamorphic rocks. One variety is composed of microscopically



Tremolite

Rutile is an interesting, varied and important mineral. Rutile is a major ore of titanium, a metal used for high tech alloys because of its light weight, high strength and resistance to corrosion. Rutile is also unwittingly of major importance to the gemstone markets. It forms its own interesting and beautiful mineral specimens. Microscopic inclusions of rutile in quartz, tourmaline, ruby, sapphire and other gemstones, produces light effects such as cat’s eye and asterisms (stars). A beautiful stone produced by large inclusions of golden rutile needles in clear quartz is called rutilated quartz.



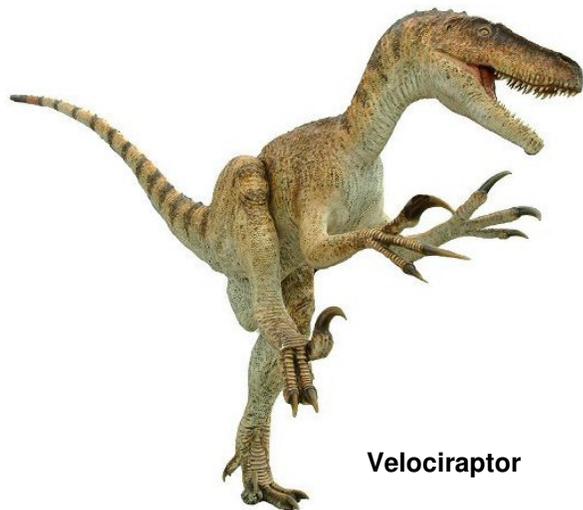
Rutile crystals

Fragile, ethereal crystals, nature always surprises us with something new and delightful. Keep your eyes open, you never know what nature will show you next.

*Researched by Rose Kapp. Reference: Amethyst Galleries’ Mineral Gallery, www.galleries.com
Via Port Moody Rock & Gem Newsletter 11/06*

The Dinosaur That Gave Up Meat

Guardian News & Media 2008
Via The Lithnics, 4/10, Dinny's Doin's 6/10



Velociraptor

Scientists in the US have discovered a mass graveyard of feathered dinosaurs with teeth that hint at vegetarian appetites.

The excavation of what may be thousands of fossil remains could provide clues about how meat eating members of the velociraptor family – the predators in *Jurassic Park* – evolved into herbivores, researchers report in Nature today.

The species, found in Utah and named *Falcarius utahensis*, dates from the early Cretaceous period 125 million years ago.

It ran on two legs, was 1.3 meters (4ft 6in) tall, measured four meters from tip to tail and had 10cm (4in) talons. Nobody knows whether it ate meat, vegetables or both. But, its teeth tell a story of vegetarian tendencies.

James Kirkland of the Utah Geological Survey said: “*Falcarius* shows the beginning of features we now associate with plant-eating dinosaurs, including a reduction in size of meat-cutting teeth to leaf-shredding teeth, the expansion of the gut to a size needed to ferment plants, and the early stages of changing the legs so they could carry a bulky body instead of running fast after prey.”

So far the scientists have collected 1,700 bones, enough to reconstruct 90% of *Falcarius*, and conclude that it was one of a group of dinosaurs known as therizinosaurs, in turn members of a bigger group called maniraptorans. This group includes the velociraptors. Modern birds evolved from maniraptors. No feathers have been found but feathers or proto-feathers have been discovered on close relatives in China, and the guess is that the Utah finds would have had similarly shaggy, hair-like quills.

Falcarius – the name means sickle-maker, because later plant-eating therizinosaurs had one-meter long sickle claws – is unequivocal evidence that herbivores evolved from velociraptor-like ancestors, according to Lindsay Zanno, a co-author of the report.

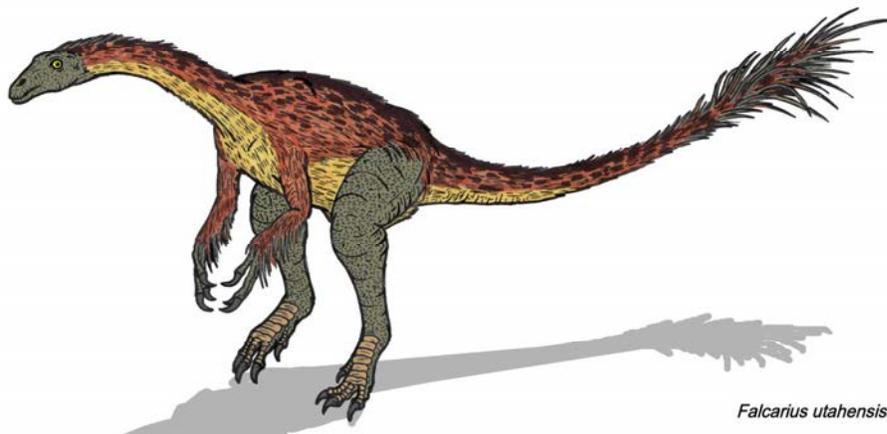
It had leaf-shaped teeth rather than the triangular, blade-like serrated teeth of most of its relations .

One scientist called the discovery “evolution caught in the act”.

The graveyard was discovered in east-central Utah, south of a town called Green River. The site was spotted by a commercial fossil collector, later convicted of fossil theft, who led scientists to it.

Dr. Kirkland estimates that thousands of dinosaurs are preserved at the dig. Nobody knows why so many creatures died in the same place: drought, volcanic eruption, fire and mass poisoning have been suggested.

Scott Sampson of the Utah Museum of Natural History said: “This little beast is a missing link between small-bodied predatory dinosaurs and the highly specialized and bizarre plant-eating therizinosaurs.”



Falcarius utahensis

Facetor's Corner

One of my former students recently asked me a question about polishing a stone he had been faceting. It seems that he had done a great job cutting the pavilion of the stone (an amethyst) with all the facets meeting properly. Then he started polishing, and that's where his problems began.



It seems that some of his facets polished wonderfully, but others mysteriously developed what he described as "scratches from hell." He was using a cerium oxide-coated DynaDisk, and his first stab at correcting the problem was to wash off the lap. When the scratches continued to get worse, he switched to a film lap coated with cerium. He used very light pressure as he'd been taught. That too didn't work, and the scratches became so deep that he had to recut the pavilion in order to remove them.

His next try was with a brand new film Spectra lap, figuring that the different polishing compound might solve his problem. Alas, scratches appeared again, and he was forced to go back and slightly recut the pavilion again to remove them.

When he finally contacted me, I asked him a simple question. "What kind of water are you using?" "Huh?"

was his response. "Are you using ordinary tap water or filtered water," I asked. His response was that he used ordinary tap water. I suggested that he buy a bottle of distilled or filtered water, or run his tap water through a coffee filter before using it in his faceting setup.

A few days later he called me again, this time to brag about his now finished and well polished stone. He had used a coffee filter on his tap water and was amazed at how many tiny grains of sand were trapped by the filter. It was those grains of sand that were causing the scratches on his stone. He had forgotten that many cities use sand filters to help purify their drinking water and that sometimes tiny particles escape into the water. Sometimes foreign particles enter the water pipes after repairs have been made somewhere down the line, too. They usually aren't harmful to us to drink, but they sure can wreak havoc on polished surfaces.



So, a word to the wise. If you're polishing quartz or another softer stone, getting scratches during the polishing stage, and using water as the lubricant, use either distilled water or run your tap water through a filter before using it.

by Steve Weinberger, from Gem Cutters News 1/2009



August Calendar

Birthstone: Peridot



Sun	Mon	Tues	Weds	Thurs	Fri	Sat
For more class information, contact Class Coordinator: Teresa Johnson 916-929-0701 or email: classesforrockrollers@gmail.com					1	2
3	4 Lapidary Shop 5:00-9:00 pm	5	6 Lapidary Shop 5:00-9:00 pm	7	8	9
10	11 Lapidary Shop 5:00-9:00 pm	12 Meetings: Rookies 5:30 pm Club 7:00 pm	13 Lapidary Shop 5:00-9:00 pm	14	15	16
17	18 Lapidary Shop 5:00-9:00 pm	19	20 Lapidary Shop 5:00-9:00 pm	21	22	23
24 / 31	25 Lapidary Shop 5:00-9:00 pm	26 NO Board Meeting	27 Lapidary Shop 5:00-9:00 pm	28	29	30

Upcoming Northern California Shows

August 23 - 24: SAN FRANCISCO, CA

San Francisco Gem & Mineral Society
S. F. County Fair Building, Golden Gate Park
Hours: Sat 10 - 6; Sun 10 - 5
Contact: Ellen Nott
Email: ellen_nott@yahoo.com
Website: www.sfgemshow.org

September 20 - 21: CHICO, CA

Feather River Lapidary & Mineral Society, Oroville
Silver Dollar Fairgrounds, 2357 Fair Street
Hours: Sat 9 - 5; Sun 9 - 4
John Scott, (530) 343-3491
Email: jweazel@sbcglobal.net
Website: www.featherriverrocks.org

September 27 - 28: MONTEREY, CA

Carmel Valley Gem & Mineral Society
Monterey Fairgrounds, 2004 Fairgrounds Road
Hours: Sat 10 - 6; Sun 10 - 5
Contact: Janis Rovetti, (831) 372-1311
Email: janis12@sbcglobal.net
Website: www.cvgms.org

September 27 - 28: SANTA ROSA, CA

Santa Rosa Mineral & Gem Society
50 Mark West Springs Road
Hours: Sat 10 - 6; Sun 10 - 5
Jolene, (707) 528-761S
Email: Jolene@srmgs.org
Website: www.srmgs.org

September 27 - 28: LODI, CA

Stockton Lapidary & Mineral Club
Lodi Grape Festival Grounds, 413 East Lockford St.
Hours: 10 - 5 daily
Contact: Jerold Kyle, (209) 368-9411
Email: jeroldkyle@yahoo.com
Website: www.stocktonlapidary.com

October 11 - 12: ANDERSON, CA

Shasta Gem & Mineral Society
Shasta County Fairgrounds, Briggs Street
Hours: Sat 9 - 5; Sun 10 - 4
Steve Puderbaugh, (530) 604-2951
Email: steve@applyaline.com
Website: www.shastagemandmineral.com

October 11 - 12: GRASS VALLEY, CA

Nevada County Gem & Mineral Society
Nevada County Fairgrounds, 11228 McCourtney Road
Hours: 10 - 5 daily
Contact: Todd Lawson
Email: ncgms@hotmail.com
Website: www.ncgms.org

October 18 - 19: PLACERVILLE, CA

El Dorado County Mineral & Gem Society
El Dorado County Fairgrounds, 100 Placerville Drive
Hours: 10 - 5 daily
Contact: Bob Graton, (530) 676-2472
Email: info@rockandgemshow.org
Show Website: www.rockandgemshow.org
Club Website: www.eldoradorocks.org

November 1 - 2: CONCORD, CA

Contra Costa Mineral & Gem Society
Centre Concord
5298 Clayton Road (near Ygnacio Valley Rd.)
Hours: 10 - 5 daily
Contact: Harry Nichandros, (925) 289-0454
Email: show-c@ccmgs.org
Website: www.ccmgs.org/gem_show

November 8 - 9: SACRAMENTO, CA

Sacramento Mineral Society
Scottish Rite Temple, 6151 H Street
Hours: Sat 10 - 5; Sun 10 - 4
Contact: Alyssa Meszinger, (916) 205-4441
Email: gemshow@sacramentomineralsociety.org
Website: sacgemshow.com

November 8 - 9: YUBA CITY, CA

Sutter Buttes Gem & Mineral Society
Yuba-Sutter Fairgrounds - 442 Franklin Avenue
Hours: Sat 10 - 5; Sun 10 - 4
Contact: Katie Slightam, (530) 673-9649
Email: mktalternatives@comcast.net
Website: www.sutterbuttes.net

Co-Op and Other Field Trips

Aug. 29-30	Burney, CA, Dicalite Quarry for Fossil Concretions, Diatoms, Petrified Wood, Vivianite spheres. Contact: Dan Brown (530) 335-3131, rocky29988@frontier.com. Fossils For Fun.
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Early Calculators Didn't Use Chips:

Stones were the basis of record keeping in early Roman times. The shepherd would pile up stones, one for each of his sheep as they left the fold in the morning. When they returned in the evening, he moved the stones (one at a time) to a second pile. If there were stones left over, he knew that some of his sheep were still outside and he would go out to look for them.

The word calculus comes from the Latin word for "small stone used in reckoning." Hence, the shepherd/checker was known as the "stone-man" or the "calculator". *Via The Tumbler 12/99*

ROSEVILLE ROCK ROLLERS GEM & MINERAL SOCIETY
BULLETIN EDITOR
P.O. BOX 212
ROSEVILLE, CA 95678

Send exchange bulletins to
above address



Ice Cream Social
August 2014

*** First Class Mail ***



the
**ROLLIN'
ROCK**

ROSEVILLE ROCK ROLLERS, INC.



MEMBER, CALIFORNIA FEDERATION OF MINERALOGICAL SOCIETIES
MEMBER, AMERICAN FEDERATION OF MINERALOGICAL SOCIETIES
VOL. 55 NO. 8 AUGUST 2014

EDUCATIONAL MEETING 2ND TUESDAY OF EACH MONTH, 7:00 PM
EXECUTIVE BOARD MEETING 4TH TUESDAY OF EACH MONTH, 7:00 PM

EDUCATIONAL MEETING LOCATION: ROSEVILLE FAIRGROUNDS,
GARDEN ROOM, 800 ALL AMERICA CITY BLVD., ROSEVILLE, CA

BOARD MEETING LOCATION: ROSEVILLE FAIRGROUNDS,
LAPIDARY SHOP TRAILER BEYOND GATE "C" PARKING LOT

Changes and exceptions will be published in the bulletin.
GUESTS AND VISITORS ALWAYS WELCOME