



From the President's Pen

I would like to take this opportunity to point out just how great a society the Roseville Rock Rollers really is. As you all may be aware, there was a short timeline announcement requesting all hands to support the movement of the Lapidary shop due to the fairgrounds upgrades. With only a two week notice to get ourselves sorted to move across the fairgrounds, it seemed like a very daunting task and possibly unable to be achieved in the time allotted.

But, you all stepped up! In just two short weekends the members came together and packed up the inside of the Lapidary shop. Sorted "Lord knows" how many years' worth of collected rock into buckets, and removed old buckets and trash that had been collected over time in our backyard area. Then after all of these items were sorted, packed and stacked, it had to be moved across the fairgrounds to a temporary storage holding area. You all finished the moving of all this material in just a few hours in the second weekend of availability.

This is a tremendous feat and you all really took charge by donating your time, vehicles, trailers and BACKS! I really want to thank you all on behalf of the society for a job so well done in such a short timeline. You all should really take pride in the task you accomplished.

Thank you!

— Glenn Fiala

Vice President's Corner

AUGUST, my birth month. So now I can talk a little about myself, (as if I don't already do that.) The birthstone for August is the Peridot, symbolizing strength. (With 3 young grandkids moving in with me I'm going to be testing this belief.) It is sometimes called the evening emerald for its light green color. The peridot was once one of the most prized gems on earth but forgotten for decades. Today its lemony-green glow is in the limelight again. I have pronounced this gem as "pear-a-doe" but it is actually "per'i-dot". However, it seems there are a lot of people confused so the dictionaries are offering both pronunciations.

Here are just a few meanings/facts of Peridot:

1. When set in gold, this gem was said to protect the wearer from nightmares. (Not working for me)
2. Peridot has been found in volcanic lava in Hawaii and in meteorites that have fallen to Earth.
3. It was once believed that the green peridot crystals found in volcanic ashes were the tears of the volcano goddess, Pele.
4. The sparkling birthstone that will keep you away from evil, depression, and enchantments.
5. The largest peridot ever found weighs 319 carats. You can see it in the Smithsonian Institution in Washington, D.C.

Our Educational Program for August 14th will be our annual ice cream social (see insert). Looking forward to seeing all of you there.

— Jan Kessler

Educational Program for August 14, 2018

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.



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. Please pre-cut any pies or cakes. And don't forget your ice cream scoops! **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 10, 2018

Call to Order at 6:55 p.m. (Delay due to Johnson Hall was not unlocked at 6:00 p.m.)

Flag Salute.

Present: Members 40 signed in; Rookies, 6 and Guests 6.

Introductions by Guests.

Invocation – given by Jan Kessler.

Recess for dinner.

Business meeting resumed.

Sunshine – no report.

Junior Activities – Carole Kowalik and 6 Rookies played Rock Bingo. The August meeting will be the Rockhound game.

Treasurer – Terry Yoschak had no report.

Secretary – Florence Brady reported we are accepting membership applications.

Vice President – Jan Kessler reported the program for the August Ed. Mtg. will be the annual Ice Cream Social plus Show and Tell by members.

CFMS Director – Mike Hunerlach had no report.

Vests, tee shirts, patches – Jan Kessler reported she will be receiving a new shipment of small size vests.

Field Trip Chairperson – Gene Doyle reported there were 7 attendees for the Cool Quarry Mine tour. He and Jim Hutchings spoke briefly on the upcoming Duncan Canyon field trip. Information on the trip to Hawthorne, NV was e-mailed to members.

Librarian – Karla Shannon had no report.

Show – Jim Hutchings - next Show Committee meeting is Sept. 18th.

Lapidary Shop – Mike Hunerlach reported the Lapidary Shop is now closed as we are getting it ready to be moved across the Fairgrounds next to the large shed. Volunteers will be needed to pack up items inside the trailer, sort the rocks outside and get the saw shed ready for removal. The Fairgrounds will be towing the trailer and arranging for utility hookups for sewer, water and electric. Further discussion on renting the large shed building has to take place.

Refreshments – the clipboard for signups is on the Greeter's Table, accepting signups for the Fall meetings.

Lapidary Classes – Chair Cathy Nelson was absent. Will be no further classes until the move and setup of trailer is completed.

Old Business – none

New Business – RRR By-Laws and Standing Rules revisions. The revisions to both documents were e-mailed to all members. Glenn asked if there were any questions. There was no discussion. A motion was MSA to approve the RRR By-Laws as revised. (The Standing Rules were approved by the Board at the June 26, 2018 Board meeting.)

General Announcements – refer to the bulletin for upcoming shows.

Drawings – winners were: Member, Don Tadlock; Junior, Ashley Wittmeyer and Guest, Victoria Swanson.

Silent Auction – will continue for 10 more minutes.

Adjournment – meeting adjourned at 8:05 p.m.

MINUTES FOR ROSEVILLE ROCK ROLLERS BOARD MEETING JULY 10, 2018

Call to Order at 8:14 p.m. by President Glenn Fiala.

Present: 10 officers.

Membership Applications – a motion was MSA to approve membership for the following applicants: Grant Hamilton, Dat Jones, Helen Martin, Delina Greyling, Merrie Gonzales, Victoria Swanson and Logan Swanson (JR).

Lapidary Shop – the relocation (temporary) of the Lapidary Shop across the Fairgrounds to a location near the large shed, will occur on/or about July 23. Discussion on what will need to be done to get ready the trailer, saw shed and rocks. Mike Hunerlach and Jim Hutchings met with Gabrielle Stevenson to coordinate this move. The land on which the trailer is situated is owned by the County and the County is ready to start preparing it for a future parking lot and driveway. Future meetings with the Fairgrounds will be held to determine will there be rental fees during the “down time” for the Shop and monthly fees for renting the large shed? Utilities will be setup for the temporary Shop and later, for the shed. Mike is coordinating the volunteers along with the jobs that need to be done along with dates and times.

Adjournment – meeting adjourned at 8:37 p.m.

Respectfully submitted,
Florence Brady, RRR Secretary



No Board Meeting in August

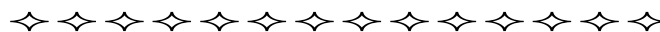
Donations Needed

The Prize Tree (door prizes at the Educational meetings) is getting pretty bare. Donations are needed, and will be much appreciated!



We especially need donations of prizes for men!

— Nancy Hood



Sunshine

A sympathy card was sent to Joyce Emerson for the loss of her husband Bob Emerson.

When you know of any member who is ill or has been hospitalized, please contact our Sunshine Chair, Heather Crane, at (818) 903-4433 or hmcrane7@gmail.com

In Memoriam

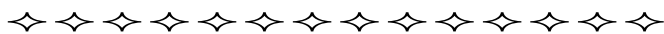
Bob Emerson (1929—2018)

William R. “Bob” Emerson, age 89, passed away at his home in Auburn on July 18, 2018. He was a 1948 graduate of Roseville High School, residing in Roseville for over 50 years. After serving on the city’s Park Commission followed by the Planning Commission, Bob was elected to the Roseville City Council in 1974. For 15 years, Bob owned and operated the Flying A Service Station in Roseville, followed by another 10 years as owner of Emerson’s TV & Appliance, also in Roseville. He then transferred his knack for making things work to the Formica plant in Rocklin where he worked as a mechanic and electrician for 10 years.

Bob’s hobbies included fishing, hunting, and rock hunting which carried nicely over to his membership in multiple Rock & Gem Clubs, including Roseville, Nevada County, and Sutter Buttes.

A Lifetime Member of RRR, having joined the club in 1982, Bob served over the years as Federation Director, Director, and Vice President.

Bob is survived by Joyce Emerson, his wife of 45 years, 7 children and step-children, 17 grandchildren and 13 great-grandchildren. A funeral service was held at Auburn Parkside Church of the Nazarene on July 26, 2018.



Lapidary Classes

Crafty Days are suspended while the Shop is being relocated.

We have scheduled a Silversmithing 1 class with Dan Bender at his Studio 26 on Sunday, August 19, 2018 from 2PM to 5PM. During this class the students will each make and complete 2 sterling silver stacker rings.

We have also scheduled a Silversmithing 2 class on Sunday, August 26, 2018 from 2PM to 5PM. During class 2 the students will each make and complete 2 sterling silver stacker rings each with a stamped bezel set cabochon stone.

For each class the fee will be \$25.00 (which includes the RRR \$5.00 shop fee). All supplies are included in the class fee. The instructor will furnish all the tools needed.

All classes will be held at The Studio 26, which is located at 4100 Cameron Park Dr., Suite 118, Cameron Park, CA 95682

Please register early as previous classes have filled up very fast. Pre-registration is required.

Contact Cathy Nelson, the Lapidary Classes Coordinator 925-321-2024/ canelson2@netscape.net



Welcome New Members:

- Merrie Gonzales
- Delina Greyling
- Grant Hamilton
- Dat Jones
- Victoria Swanson

Welcome New Junior Member:

- Logan Swanson

Rookie Rock Roller News



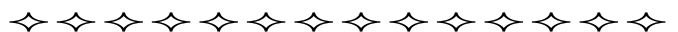
On Tuesday, August 14, the Rookies will meet at 5:30 p.m. in one of the buildings at the fairgrounds. Go to through the opening near the ticket booth and you will see a sign directing you. There will be a sign on one of doors of the buildings also. The adult education meeting will follow our meeting in the same place.

We take a break from our normal routine in July and August. At the meeting in July, we learned a little about identification by sight while playing Rock Bingo. As they won bingo or black out, they were able to choose an item from the prize box. It was a shortened meeting so that we could join the pot luck at the adult education meeting.

For August, we will play the Rock Hound game which also teaches a little about identifying rocks by sight. After this game we will go to the Roseville Rock Rollers Ice Cream Social. I sure hope you all have fun on your summer vacations. We will be back in business in September with our normal routine. If anyone is interested, please text, email or phone me to set up a meeting to see what badges you have earned at the meetings, at school, or with your families.

See you all at the meeting,

Carole Kowalik, Junior Advisor
(916) 871-0573 home3004@gmail.com



Relocation of the Lapidary Shop Photos by Gloria Marie & Carole Kowalik, text by Mike Hunerlach

July 15

Today was not even the actual project day! We were, just going to remove the fence, and fence posts, but that only took 30 minutes!

We killed, destroyed, decimated about 10 wasp nests!

A great crew of folks showed up...and wanted to get a day in, and we obliged them!

Fantastic progress on culling rocks and clearing junk out!

We did it in record time.....

July 22

Starting at 8:00 with several trucks, 3-trailers and about 15 volunteers we emptied the Lapidary Trailer and relocated everything to the temporary building by 10:00 (2-hours !!!).

We broke into teams, one inside, one moving rocks and one at the temp. building to store things in an orderly manner. We then proceeded to move the contents of the saw shed - flawless !!

After that we moved all of the buckets of used oil, cleaned the inside of the trailer and locked it up.

At the temporary building I put the metal rack from the Library back together and it's available for the items we need for meetings and Juniors. I also set up the large table from the Library for Carole and the Juniors to use.

Richard, from @TheGrounds moved a couple large pallets and including a used oil tank which gives us the entire building (we have used about 50%).

A BIG THANKS TO ALL WHO STEPPED UP TO HELP! It really says something when so many can come together so quickly to achieve a difficult goal !!!!

VOLUNTEERS INCLUDED:

Rick Freitas

Joe Franz

Gary Peterson

Steve Laue

Nancy Hood

Lonnie Riggs

Chris Davis

Gene Doyle

Stan Bollinger

Mike & Rene' Hunerlach

Jim Hutchings

Gloria Marie

Glenn Fiala

Albie & Janet Longueira

Florence Brady

Carole Kowalik

Carla LaFave

Henrietta Markley

Duncan & Shirley Penman

Jim Barton

Vern Iverson

Cindy Hume

Lee Perolio

Rob Blazina

Samuel Manganello

Cameron Downey

Loading up materials from outside the shop trailer



Library and other inside materials



Continued next page --->



Everything gets moved into the temporary storage shed

Geodes vs. Vugs

by Cecil Gross

We all know what a geode is -- a roughly spherical hollow rock lined with crystals. A vug is roughly spherical cavity lined with crystals. But did you know the real difference in the structure between the two?

A geode has an outer shell or rind (like a melon) composed of chalcedony, which is harder than the host rock in which the geode formed. When the host rock weathers away, the geode is preserved intact due to its hard shell.

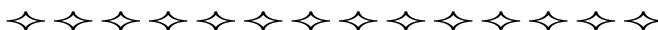
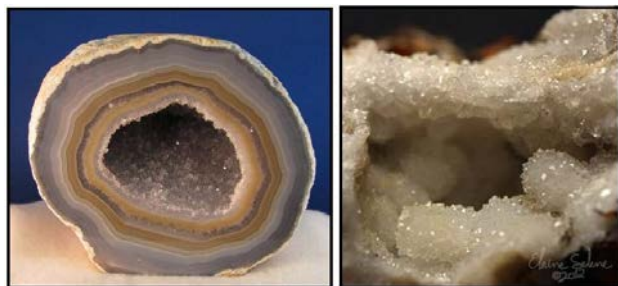
Vugs do not have the protective rinds that geodes possess. The crystals found in vugs are formed within a cavity in the host rock, but unlike geode crystals, they are attached to the host rock itself. Therefore, vug crystals are destroyed when the host rock weathers through the cavity.

When weathering exposes a cavity and (if) a rockhound happens to see it, the vug can be chiseled out. If an inch or two of the host rock is left around the cavity, the vug can be removed undamaged.

The geode and vugs I am writing about are found within a radius of about 70 miles from Keokuk, Iowa. The rock in which they are found is a yellowish-brown to blue-gray dolomite shale of the Mississippian age (325 to 345 million years ago).

At right a vug from the Keokuk area; at left a geode.

From the Palomar Gem Bulletin 3/96, via Delvings 7/17



Diamonds Don't Form From Coal

The widespread belief that Earth's diamond deposits were formed when coal was subjected to high heat and pressure is one of the most common misconceptions in science. The most convincing evidence that coal did not play a role in the formation of most diamonds is a comparison between the age of Earth's diamonds and the age of the earliest land plants.

Almost every diamond that has been dated formed during the Precambrian Eon - the span of time between Earth's formation (about 4,600 million years ago) and the start of the Cambrian Period (about 542 million years ago). In contrast, the earliest land plants did not appear on Earth until about 450 million years ago - nearly 100 million years after the formation of virtually all of Earth's natural diamonds. Since coal is formed from terrestrial plant debris, it is easy to conclude that coal did not play a significant role in the formation of Earth's diamonds.

<http://geology.com/articles/diamonds-from-coal/>



Special thanks to Vern Iverson for renting a long trailer to help with the move!

Chrysanthemum Stones

by Rachele L. Best

Chrysanthemum stones are rocks containing crystal formations that resemble November's birth flower, the chrysanthemum. There are at least 21 different locations in China where these stones are mined. The majority of the locations are in the Hubei, Hunan, and Jiangxi provinces in southern China. Chrysanthemum stones are also found in extremely rare instances in at least five locations in Japan, one location in South Korea, and a couple of locations in British Columbia. Note the chrysanthemum stones on the market in the United States are usually from the classic Chinese localities because the others are so rare.

Scientists at the Geology Department at the China University of Geosciences in Wuhan, Hubei say that the flowerlike mineral formations formed in a shallow, oxygen-deficient marine environment in the Middle Permian, approximately 290 to 245 million years ago. A nucleus or core is necessary for initial formation. The first generation of chrysanthemum stones was composed of celestine and aragonite which later morphed into calcite through heat and pressure. Some of these flower crystals took a million or more years to form. The three dimensional crystals were eventually covered with sediment and later compressed, eliminating some of their three-dimensional character. The matrix is light to dark gray, sometimes black, limestone that has been silicified, which provides for a smooth polish. It is technically called calcareous clay slate (CCS). CCS contains numerous lenticular or irregular nodules of limestone, which frequently owe their origin to fossils. Some crystals have grown around fossil debris of brachiopods and gastropods, or are centered on nodules within the limestone, which formed during the diagenesis period, further supplying evidence of formation in a shallow sea.

The petals of classic Chinese chrysanthemum stones are white to pale bluish-gray, three-dimensional, radiating crystals that range in diameter from one inch up to several feet. The crystals vary in size, shape, and composition from one region to the next. They are predominantly celestine crystals with impurities that vary from specimen to specimen, most likely due to varying conditions and composition of the mineralizing solution at the time of crystallization. More than ten trace minerals have been identified in chrysanthemum stones, including selenium, strontium, gold, silver, and bismuth. An analysis of the strontium isotopes present within some of the stones indicated that the strontium of the celestine was derived from seawater. Flowers from Hunan province seem to be more symmetrical, have small nar-

row uniform petals, and consist mainly of celestine, while outcrops of the same strata in other locations are mixtures of calcite, chalcedony, and minor dolomite which all had replaced the original celestine.

The first supposed discovery of the stone in situ in China was when people of the Qing Dynasty (1644-1911) built a dam and uncovered stones with the now-famed flowerlike inclusions. For centuries travelers have collected the pretty baubles along their paths, so all that was easily collected is long gone. This has made the classic Chinese chrysanthemum stone a rare serendipitous find and mining is now required to find more. During the first half of the 20th Century the public's interest for chrysanthemum stones had waned. Interest began to grow again at about the time of the Second World War when new localities were discovered, and mining of chrysanthemum stones began anew.



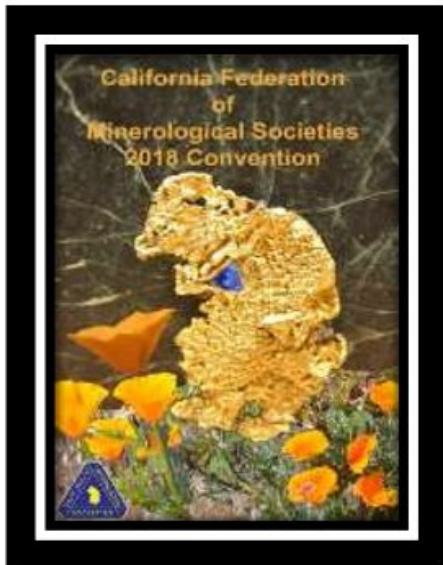
Chrysanthemum stones are sometimes displayed on custom wooden bases that vary in style according to the region and era they were manufactured. They help to orient the stones for the best viewing and are usually fitted for each specific rock. In Chinese lore, the bases metaphorically raise the stones from the mundane to the sacred.

Much of the time the stones are enhanced to bring out the flower crystals that are hidden within the matrix. Rough specimens can be ground down, sand-blasted or polished, and then selectively dyed or painted to make the matrix contrast more with the flowerlike crystals. The first of these stones found in times of antiquity were probably polished only by the river and then left unaltered by man. They were not worked into art objects and were appreciated purely for their natural beauty.

Chrysanthemum stones have been revered by poets, painters, and sculptors seeking inspiration and enlightenment for more than three centuries in the Far East. Such stones, because they truly look like their namesake, would allow artists and naturalists to bring the outside world into their own personal quarters — a flower that would never die.



Sources:
Elias, Tom, and Nakaoji, Hiromi. *Chrysanthemum Stones: The Story of Stone Flowers*. Floating World Editions, 2010.
Elias, Tom. *Chrysanthemum Stones: Mineral "Flowers" Bloom in These Popular Collectibles*. Rock and Gem, December, 2010, pages 20–26.
From the Pick & Dopstick 11/16, via Delvings 7/17



California Federation
of
Mineralogical Societies
2018 Annual Convention
and the
Feather River Lapidary
&
Mineral Society, Inc.
Show
September 15, 16, 2018
Silver Dollar Fairgrounds
Chico, California



We'd like to thank the Feather River Lapidary and Mineral Society, Inc., for inviting us to hold our 1st Directors Business Meeting of the year and festivities, alongside their annual show this year. Because we are not having a hosted show this year, we are having a convention only, and will be "pulling out all the stops" at the CFMS Endowment Fund Table and Endowment Fund Raffle, as our means of drawing income instead of a usual show. Let's make this a good year for the federation while enjoying a fun and wonderful show!

— Jennifer Haley, 2018 CFMS President

More information: http://www.cfmsinc.org/shows/2018CFMS_Convention_at_FRLMS_Show.pdf



August Calendar

Birthstone: Peridot



Sun	Mon	Tues	Weds	Thurs	Fri	Sat
The Lapidary Shop is temporarily closed for a relocation. We are not sure when classes or Crafty Days will resume at the Shop. Stay tuned!			1	2	3	4
5	6	7	8	9	10	11 Grass Valley Field Trip 9:30 am
12 Grass Valley Field Trip 9:30 am	13	14 Meetings: Rookies 5:30 pm Club 7:00 pm	15	16	17	18
19 Silversmithing 1 2-5 pm At The Studio 26	20	21	22	23	24	25
26 Silversmithing 2 2-5 pm At The Studio 26	27	28	29	30	31	

Upcoming Northern California Shows

August 4 - 5: SAN FRANCISCO, CA

San Francisco Gem & Mineral Society
 San Francisco County Fair Building
 (Hall of Flowers)
 9th Avenue & Lincoln Way, Golden Gate Park
 Hours: Sat. 10 - 6; Sun. 10 - 5
 Contact: Ellen Nott
 Email: ellen_nott@yahoo.com
 Website: www.sfgemshow.org

September 15 - 16: CHICO, CA

Feather River Lapidary & Mineral Society
 Silver Dollar Fairgrounds, 2357 Fair Street
 Hours: Sat 9:30 - 5; Sun 9:30 - 4
 John Scott, (530) 321-6331
 Email: jwezal@sbcglobal.net
 Website: www.featherriverrocks.org

The 79th CFMS Convention

will be held along side of the
 Feather River Lapidary &
 Mineral Society's
 Rock & Gem Show
 Show Hours Sat. 10AM-5PM
 Sun. 10AM-4PM



All CFMS meetings will take place in Harvest Hall at the Silver Dollar Fairgrounds
 CFMS Endowment Table & Endowment Raffle:
 Endowment table will be open all day Sat & Sun.
 Endowment Raffle will be held on Sun.

September 22 - 23: LODI, CA

Stockton Lapidary & Mineral Club
 Lodi Grape Festival Grounds
 413 East Lockford Street
 Hours: 10 - 5 daily
 Contact: Mike Mathis, (510) 301-3612
 Email: mmathis@nwp.org
 Website: www.stocktonlapidary.com

October 6 - 7: GRASS VALLEY, CA

Nevada County Gem & Mineral Society
 Nevada County Fairgrounds, 11228 McCourtney Rd.
 Hours: 10 - 5 daily
 Contact: Mitchell Frank Van Hecke, (530) 274-2425
 Email: 4vanclan5@att.net
 Website: www.ncgms.org

October 13 -14: LOS ALTOS, CA

Peninsula Gem & Geology Society
 Los Altos Youth Center, One North San Antonio Rd.
 Hours: 10 - 5 daily
 Contact: Steve Jobe, (408) 834-5384
 Email: steve_jobe@sbcglobal.net
 Website: www.pggs.org

October 20 - 21: PLACERVILLE, CA

El Dorado County Mineral & Gem Society
 El Dorado County Fairgrounds, 100 Placerville Drive
 Hours: 10 - 5 daily
 Contact: Jean Klotz
 Email: info@rockandgemshow.org
 Website: www.eldoradorocks.org

October 20 - 21: SANTA ROSA, CA

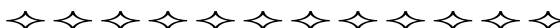
Santa Rosa Mineral & Gem Society
 The Veterans Memorial, 1351 Maple Avenue
 Hours: Sat 10 - 6; Sun 10 - 5
 Contact: Jolene, (707) 849-9551
 Email: coons@sonic.net
 Website: www.srmgs.org

October 27 - 28: SACRAMENTO, CA

Sacramento Mineral Society
 Scottish Rite Temple, 6151 H Street
 Hours: Sat 10 - 5; Sun 10 - 4
 Contact: Alyssa Mesiznger, (916) 662-5819
 Email: gemshow@sacramentomineralsociety.org
 Web Site: http://SacramentoMineralSociety.org

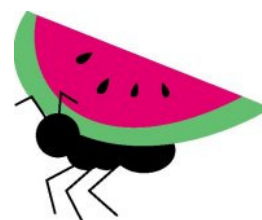
November 10 - 11: YUBA CITY, CA

Sutter Buttes Gem & Mineral Society
 Yuba-Sutter Fairgrounds, 442 Franklin Avenue
 Hours: Sat 10 - 5; Sun 10 - 4
 Contact: Karen Horita, (916) 677-6696
 Email: horita@comcast.net



Co-Op and Other Field Trips

Aug 11-12	Grass Valley, CA for agates, jaspers, petrified woods (AZ,NV,OR), obsidian, thundereggs, Black Rock Desert Chalcedony nodules etc. Roseville Rock Rollers. Contact: Gene Doyle at (408-605-9457), limit of 10 cars per day.
Sept 14-17	Black Rock Desert, NV for Jasper, Jasp-Agate, Petrified Woods, Calcite and Quartz Geodes, Large Apache tears. Sacramento Mineral Society & Mother Lode Mineral Society. Contact: Gina Malcolm 707-685-4006 animalnurse668@outlook.com. Misty Watson 209-480-3176 mistywatsonc21@hotmail.com. Limit 20 people
Oct 6-7	Hawthorne, NV for Microcline Feldspar, Copper minerals, Black Quartz Crystals, Epidote, Epidote in Quartz, Epidote in Calcite, Cassiterite, Grandradite and Grossular Garnet. Fossils, and possible petrified wood. Roseville Rock Rollers. Contact: Gene Doyle at (408-605-9457), euene.doyle@sbcglobal.net or James Hutchings (530) 367-5108 at home or (916) 995-7380 on the road. E-mail: jhutchings22@hotmail.com



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 2018

*** First Class Mail ***



the
**ROLLIN'
ROCK**

ROSEVILLE ROCK ROLLERS, INC.



MEMBER, CALIFORNIA FEDERATION OF MINERALOGICAL SOCIETIES
MEMBER, AMERICAN FEDERATION OF MINERALOGICAL SOCIETIES
VOL. 59 NO. 8 AUGUST 2018

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