



## From the President's Pen

Being a collector of rocks has been a lifelong hobby. It wasn't until a quick internet search for rocks and a city name, that a world culture came to be unveiled. Rockhounding clubs, rock rolling, tumbling, lapidary, gem carving, gem & mineral societies soon became new areas to explore! Each branch of the hobby has its own unique set of knowledge. Many books are written on the subjects, and many were read.

What became apparent is that, just as in times past, not all things are written down. Some things are passed down, taught person to person. Rockhounding clubs, and gem & mineral societies exist to learn from each other and show the next generation this wonderful hobby.

— Teresa Johnson

*Notes: Remember: The CFMS Federation Show in conjunction with the World Gold Panning Championships are practically in our backyard!*

*It's time for a new nominating committee (3 volunteers) to call club members and start Officer nominations. Contact Florence, fhbrady@jps.net if you can help.*

## Vice President's Viewpoint

### The Cutting Edge of an Enigma

What stone has a life cycle of fiery birth and watery death;  
is as sharp as Sean Connery's "007";  
as varied as a whole bag of Jelly Belly Beans;  
as mysterious as an Agatha Christie novel;  
and can be as translucently beautiful as the Northern Lights?

The answer, of course, is OBSIDIAN!  
This month our own club Treasurer, Terry Yoschak, will give us a fascinating presentation titled, "Obsidian: A Biography" where she explores the interesting life of this enigmatic gemstone.

Don't be left "knapping"! See you there on Tuesday, September 13th at 7:00 PM, uh, sharp!

— Bob Wilson

## We Have a Winner!

There's a Bulletin Contest each year — you knew that, right? Editors can enter their bulletins, as well as entering individual articles written by club members which appeared in the bulletins. After being judged at the CFMS level, the top entries in all categories go on to be judged at the AFMS level.

Our former Vice President, Matthew Stanley, has won **First Prize at the AFMS level** for his written feature, "The Final Frontier — in Rock Collecting," which appeared in our March 2015 issue. He will receive a handsome wall plaque, a pin which says "**Best of the Best**" and a certificate of achievement. Congratulations, Matthew!!

## Educational Program for September 13, 2016



### Obsidian: A Biography

A presentation on obsidian by Terry Yoschak will explain how it is "born" in volcanoes, and "dies" through the process of hydration. We'll also discuss how scientists can determine exactly where each piece of obsidian comes from, and the methods which are used to determine how old each obsidian artifact may be.

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## MINUTES FOR ROSEVILLE ROCK ROLLERS EDUCATIONAL MEETING AUGUST 9, 2016

**Call to Order** at 7:01 p.m. by President Teresa Johnson.

**Flag Salute.**

**Present:** 38 Members, 1 Rookie and 11 Guests.

**Introductions by Guests.**

**Recess for refreshments.**

**Business meeting started.**

**Juniors** – Carole Kowalik gave a report on the activities done during the Juniors' meeting. 7 Juniors and one guest were in attendance. Junior member Nick Kakoulli was awarded the 9 Rockhound badges he earned.

**Treasurer** – Terry Yoschak reported the audit for the financial records for the 2016 show found the records to be in good order. She shared with the members the profit made from the show.

**Secretary** – Florence Brady reported we have 276 members with several applying during the meeting.

**Lapidary Classes** – Judy Osmundson reported on upcoming classes and asked members to let her know what they would like.

**Library** – Karla Shannon brought books and magazines for checkout. She reviewed the procedure for checking out a book or magazine.

**Vests, tee shirts & patches** – see Jan Kessler if you would like to purchase any RRR items.

**Drawings** – Nancy Hood announced the winners for the drawings: Member, Judy Osmundson, Junior Nick Kakoulli and Guest Anthony Macreadie.

**Show for 2017** – first show committee meeting will be Sept. 20, 2016.

**CFMS Director** – Steve Smith was absent.

**Programs/Vice President** – new VP Bob Wilson reported the program for September will be on obsidian, given by Terry Yoschak. Future programs were shared.

**Old Business** – we are still accepting volunteers to work at the State CFMS Show in Sept. See Florence to sign up.

**Other Business** – Nancy Hood passed out buttons stating "I Survived Duncan Canyon" to members who have gone on the field trip down and up Duncan Canyon.

**Program** – show and tell was done by 6 members and several guests.

**Adjournment** – meeting was adjourned at 8:20 p.m.

## ROSEVILLE ROCK ROLLERS BOARD MEETING AUGUST 9, 2016

**Call to Order** by President Teresa Johnson at 8:30 p.m.

**Present** – 8 Board Officers for a quorum.

**Membership Applications** – A motion was MSA to accept the membership applications from Wesley & Constance Arendtsen, Erinn Conner-Bailey, Lee Perolio and Ralph & Elizabeth Valentine.

**Adjournment** – meeting was adjourned at 8:32 p.m.

Respectfully submitted,  
Florence Brady, RRR Secretary

## Harvester Ants and Turquoise

*New Mexico Magazine* periodically publishes a wonderful book called *The Allure of Turquoise*, now in its second edition. Among the more unusual sections in this book is the relationship between harvester ants and turquoise.



Harvester ants in New Mexico are prolific collectors of turquoise. It is not unusual to see an ant carrying a tiny chunk of turquoise back to its nest. The ants use the heat retained by the turquoise after it has been exposed to the day's sun to stabilize the temperature in their nest at night by lining the "roof" with turquoise.

Harvester ants are quite picky. In one experiment hundreds of beads of all colors were scattered in a small area. The ants showed a strong preference for the blue and green beads, the colors of turquoise. A couple years after the experiment, scientists were still finding blue beads on nests.



Most archeologists are dismayed by this behavior, as it scatters Native American and Mesoamerican artifacts across the desert. At least one archeologist, however, has used the ants to zero in on a primitive site. He surveyed the area and found all of the ant nests that had turquoise on them. He concentrated on the area in the middle of the ant nests and found an ancient village in Chaco Canyon that had thousands of artifacts.

The bead experiment also provided interesting information about harvester ants. It had been assumed that all ants were blind. It is now believed that harvester ants have limited vision in the blue green spectrum.

If you find and disturb a harvester ant nest you can be sure of two things: one, there is likely to be an ancient site around; two, you are likely to be bitten. Harvester ants have one of the most toxic ant bites around, so be careful and realize you might be disturbing information valuable to archeologists.

By Michael Graham, El Dorado County Mineral & Gem Society member  
Ref. *Allure of Turquoise*, Arnold Vigil (Editor), *New Mexico Magazine*, 2005

Via *Petroglyphs* 10/13

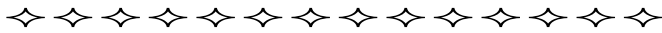
## September Show Meeting

The first show committee meeting for our annual show in March 2017 starts at 7:00 p.m. in the Lapidary Shop on Tuesday, September 20. We encourage members to attend, learn how the show chairs are getting ready for this huge, annual show! Learn how you can help out one of the chairpersons before and during the show. Your input and help will be greatly appreciated. The Show Committee meets on the 3rd Tuesday of the month, in September, November, January, February and March. This is a way for you to be active in the society, meet other RRR members and just have fun with the show!

— Jim Hutchings, 2017 Show Chair

## September Board Meeting

The meeting will be held Tuesday, September 27 at 7:00 PM in the club Lapidary Shop at the Roseville Fairgrounds.



## Lapidary Shop Steward Needed

We need a new person to replace Gene Engelbrite for the Wednesday night Lapidary Shop classes. Please contact Jim Hutchings, [jhutchings22@hotmail.com](mailto:jhutchings22@hotmail.com).

El Dorado County  
Mineral & Gem  
Society

SEPTEMBER  
16, 17, 18  
2016

NUGGET COURTESY  
OF TONY CHARLTON

STRIKE GOLD!

77th ANNUAL  
CALIFORNIA  
FEDERATION OF  
MINERALOGICAL SOCIETIES

ROCK & GEM SHOW  
& CONVENTION

[www.CFMS2016show.com](http://www.CFMS2016show.com)



## Rookie Rock Roller News



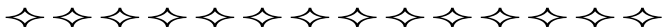
The Rookies will meet in the lapidary shop at 5:30 p.m. on Tuesday, September 13, 2016.

At our last meeting, we learned a little about names of rocks and minerals through the game of Rock Bingo. The juniors played regular and black-out Bingo. We had quite a few winners able to choose from the prize box. After that wild game, we joined the adults for the ice cream social. What a display of desserts!

At our September meeting, we will resume the regular program with Henry giving his presentation on prehnite. After the presentation, we will have a fun activity. I am looking forward to seeing everyone back from vacation.

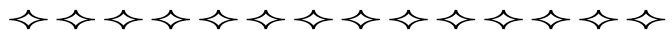
See you all there,

Carole Kowalik, Junior Advisor  
916-705-2124 [home3004@gmail.com](mailto:home3004@gmail.com)



A get well card was sent to Bob Wilson, who had a very mild heart attack. He says he feels fine now!

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 [cyned0523@yahoo.com](mailto:cyned0523@yahoo.com).



## September Refreshments

Refreshments for the September 13 Educational meeting are to be provided by Marian Reeder, Debi Roberts, Carla LaFave and Teresa Johnson. Thank you all in advance!

More refreshments are needed, so if you can bring some, please do so!

## Lapidary Classes

**Lapidary Classes** - Introduction to Shop Use & Cabochon making is \$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.

Large & Extra Large Saws: \$1 per slab for 18 inch saw & \$2 per slab for 24 inch saw for cutting large & extra large rocks.

**Crafty Days** - Crafty Days is a get together for anybody wanting to work on their craft while yakking and snacking! We always have fun! Bring whatever you are working on and a snack to share. We meet 1st and 3rd Mondays each month, 10-2pm at the Lapidary Shop.

Crafty Days are open play days. No class or class fee, \$5 for use of Shop is the only fee.

**Wire Classes are available on request: Wire Wrap, Cab Wrap, Viking Knit, Chain Maille, Woven Wire Bracelet, Copper Tube Bracelet.**

**Text or call.. Judy Osmundson**  
**205-541-7207**

### Mineral ID with Jim Hutchings

TBA Sign-up for next offering.

Learn the necessary tools, books & techniques of identifying rocks & minerals! Fee: \$25

### Stereo-Microscope Workshop

TBA Sign up for next offering. 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. Fee: \$5

**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.

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.



Feather River Lapidary & Mineral Society presents  
9th Annual  
**ROCK, GEM & JEWELRY SHOW**  
September 17 & 18, 2016  
Sat 9:30am-5pm - Sun 9:30am-4pm  
Chico Silver Dollar Fairgrounds  
Adults \$3 - Kids 16 & under free

- ▶ Dealers in Jewelry, Rough Rock, Gems, Beads, Opals & Crystals
- ▶ Door & Raffle Drawings
- ▶ Wire Wrapping & Beading
- ▶ Food & Drink Available
- ▶ Silent Auction

First 200 kids through the door receive a FREE Wire-Wrapped Arrowhead (both days)

Home of the Worldwide Rock Tumbling Contest  
[www.featherriverrocks.org](http://www.featherriverrocks.org)

**For the Kids**  
Wheel of Fortune  
Kids Only Silent Auction  
Grab Bags  
Treasure Hunt

## OBSIDIAN TIPS & TRICKS

Safety Tip:

After obsidian is sawed, be sure to bevel the edges all around on your fine grinding wheel to keep them from flaking and chipping. Wear goggles or glasses at all times. If a small chip of glass (obsidian) got into your eye, it would be hard to remove as it is transparent and hard to see even with a powerful magnifying glass, and the edges may cut your eye before it could be removed.

Grinding Obsidian Cabs:

Approach your grinding wheel with the material at a slight horizontal angle. If brought straight in, it may be a “shattering” experience as obsidian fractures conchoidally, and this is a sure way to do it.

Polish on Obsidian:

Keep the polishing wheel wet. A dry polishing wheel will result in blisters and scratches.

*From the Pseudomorph, via The Tumble Rumble 5/08, Blue Agate News 3/10*

# 77th Annual California Federation of Mineralogical Societies Show and Convention



**September 16, 17 and 18, 2016**  
Hours: 10:00 a.m. to 5:00 p.m. Daily



Proudly Hosted by  
**The El Dorado County Mineral & Gem Society**  
Placerville, California

**Over 60 Dealers    Displays    Demonstrations**  
**Children's Activities    Fluorescent Tent**

**Discover a wide variety of gems, mineral specimens,  
jewelry, beads, rough and finished stones,  
fossils, petrified wood, fluorescents, gold, opal, amber,  
spheres, geodes, cabs, slabs and other lapidary,  
supplies, equipment, books, & kits.**

**This statewide show is open to the public  
and will be held at the  
El Dorado County Fairgrounds  
100 Placerville Drive, Placerville, CA 95667**

Exit 44B off Highway 50

[See Map of Hwy 50 on/off ramps for Placerville Drive](#)

GENERAL ADMISSION:		
Adults	\$7.00 / day	3-day pass is \$18.00
Seniors (60+)	\$6.00 / day	3-day pass is \$15.00
Active Military	\$6.00 / day	3-day pass is \$15.00
Kids under 12 - Free when accompanied by paid Adult.		

Parking: \$6.00/day. Parking available in the Tier Area only (not on grounds).

For additional information, please send email  
[info@eldoradomineralandgem.org](mailto:info@eldoradomineralandgem.org)  
or telephone (530) 676 - 2472

## Rare Footprints of Infant Dinosaur Discovered

Researchers at the Morrison Natural History Museum have discovered two rare hatchling dinosaur footprints in the foothills west of Denver, near the town of Morrison. The fossil footprints represent the first hatchling Stegosaurus footprints ever found according to leading paleontologist Dr. Robert T. Bakker the museum's curator of paleontology. Stegosaurus was first discovered in Morrison in 1877 and is Colorado's state fossil.

"The tracks are so crisply preserved that I can imagine the sound of tiny feet splashing up water when the baby dinosaurs came to this ancient river to drink and cool down," remarks Museum Director Matthew Mossbrucker, who found the tracks. "I still can't get over just how small these footprints are."

The tracks can be eclipsed by a fifty-cent piece, suggesting that hatchling Stegos were about the size of newborn human (babies). The fossils will go on permanent display at the Morrison Natural History Museum Memorial Day weekend as part of its annual "Dinosaur Days" event...

Abundant in natural history, the tiny foothills town of Morrison has yielded important fossils since 1877. Morrison Natural History Museum researchers began exploring the 150-million-year-old Jurassic rocks of the Morrison area in 2003 with support from Aggregate Industries, the Scientific and Cultural Facilities District, and the Association of Applied Paleontological Sciences. Coincidentally, 2007 marks the 130th anniversary of the first fossil finds in the area.

"If these dinosaurs were hatching in our modern world instead of 150 million years ago, they would be within sight of Denver's skyscrapers, " says Mossbrucker. "These infant dinosaur fossils have raised more questions than they have answered. We'll have to keep digging."

Morrison Natural History Museum. May 2007.  
[http://www.biology-online.org/articles/rare\\_footprints\\_infant\\_dinosaur.html](http://www.biology-online.org/articles/rare_footprints_infant_dinosaur.html)

The small, three-toed track is a baby stegosaurus hind-paw. (Credit: Copyright Matthew T. Mossbrucker, 2007)



Stockton Lapidary And Mineral Club

## EARTH'S TREASURES GEM & MINERAL SHOW

Sept 24-25, 2016

Lodi Grape Festival Grounds

413 East Lockeford Street, Lodi, CA

10 am-5 pm

### STUDENT ACTIVITIES

Rock Identification  
 Fossil Display  
 Demonstrations  
 Fluorescent Rock Display

### MODESTO JR COLLEGE

Lapidary  
 Student Classes

### CHILDRENS ACTIVITIES

Make a RockChip Bracelet  
 Sand Sifting for Gems  
 Wheel of Fortune  
 Bean Bag Toss

### GOLD PANNING

With the Delta Gold Diggers

SLMC Show is not sponsored by or affiliated with any school district including Lodi Unified School District or Stockton Unified School District

**\$6.00 Adults**

**Children 12 and under free**

**\$2.00 Off Coupon**

Print or take a picture on cell phone

## Pebble Pup

Say, look at that kid, he's only three.  
 He learned 'bout rocks at his grandpa's knee.  
 He's learned of fossils, gems and volcanoes.  
 The Earth is awesome, that he knows.  
 As soon as he could toddle well  
 He picked up rocks and fossils as well.  
 He stored them in shoeboxes, under the bed,  
 Don't throw those out, Mom, was often said.  
 When he grew up, he went to school,  
 He studied fossils, they were so cool.  
 He went to college and all the rest  
 To study the earth, was his quest.  
 The whole thing started at his grandpa's knee.  
 Now look at that kid - he a rockin' Ph.D.!

Via Los Alamos, NM, Geological Society3/04



The Nevada County Gem and Mineral Society will host its annual gem and mineral show on October 8th and 9th at the Nevada County Fairgrounds. It is called “Earth’s Treasures”. There will be fabulous exhibits of gems, minerals, and fossils. Twenty vendors will be offering: gem stones, minerals, beads, jewelry and gift items. There will be door prizes and activities for adults and kids.

“Earth’s Treasures” is coming to the Nevada County Fairgrounds on Saturday and Sunday, October 8-9, 2016 from 10AM until 5PM both days. Adult admission is only \$2, and kids under 13 and students with ID are free. Parking is free as well. It is a fun, inexpensive day out for the family in the beautiful Nevada County Fairgrounds. Our main exhibit this year will be an extraordinary display of petrified wood rounds. Some of these pieces are up to 4 feet across, and the level of detail and beauty is incredible.

There are 24 cases featuring collections of gems and minerals from all over, several members demonstrating various aspects of the hobby: rock carving, capping, gold panning, etc. There are many dealers showcasing specimens and supplies, jewelry, beads, slabs, cabs, fluorescent rocks, the list is endless. Over in the kids’ corner there are fun games, a prize wheel, popcorn, and our famous grab bags. We will feature a silent auction as well as half-hourly raffles along with the big raffle at the end of the show.

Come up to Grass Valley on October 8 and 9 and enjoy one of the most enjoyable family outings in our area. See you there!"

Show website: [http://www.ncgms.org/our\\_show.htm](http://www.ncgms.org/our_show.htm)



## September Calendar

Birthstone: Sapphire



Sun	Mon	Tues	Weds	Thurs	Fri	Sat
For more class information, contact Class Coordinator: Teresa Johnson Email: <a href="mailto:classesforrockrollers@gmail.com">classesforrockrollers@gmail.com</a>				1	2	3
4	5  Shop Closed	6	7 Lapidary Shop 5:00-9:00 pm	8	9	10
11	12 Lapidary Shop 5:00-9:00 pm	13 Meetings: Rookies 5:30 pm Club 7:00 pm	14 Lapidary Shop 5:00-9:00 pm	15	16	17
18	19 Crafty Day 10-2 Lapidary Shop 5:00-9:00 pm	20 SHOW Meeting 7:00 pm	21 Lapidary Shop 5:00-9:00 pm	22	23	24
25	26 Lapidary Shop 5:00-9:00 pm	27 Board Meeting 7:00 pm	28 Lapidary Shop 5:00-9:00 pm	29	30	

## Upcoming Northern California Shows

**September 16 - 18: PLACERVILLE, CA**  
**77th CFMS Show & Convention**

Hosted by El Dorado County Mineral & Gem Society

El Dorado County Fairgrounds  
 100 Placerville Drive

Hours: Fri - Sun 10 - 5 daily

Contact: Barbara Terrill, 530 676-2375

Email: info@rockandgemshow.org

Website: www.cfms2016show.com



**September 17 - 18: CHICO, CA**

Feather River Lapidary & Mineral Society, Oroville  
 Silver Dollar Fairgrounds, 2357 Fair Street

Hours: Sat 9:30 - 5; Sun 9:30 - 4

John Scott, (530) 321-6331

Email: jweazel@sbcglobal.net

Website: www.featherriverrocks.org

**September 24 - 25: LODI, CA**

Stockton Lapidary & Mineral Club  
 Lodi Grape & Harvest Festival Grounds

413 East Lockford Street

Hours: 10 - 5 daily

Contact: Jerold Kyle, (209) 368-9411

Email: jeroldkyle@yahoo.com

Website: www.stocktonlapidary.com

**September 24 - 25: 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 24 - 25: REDWOOD CITY, CA**

Sequoia Gem & Mineral Society  
 Community Activities Building

1400 Roosevelt Avenue

Hours: 10 - 5 daily

Contact: Catherine Fraser, 650-954-6020

Email: catherinef@fraseradv.com

Website: www.sequoiagemandmineralsociety.org

**September 24 - 25: SANTA ROSA, CA**

Santa Rosa Mineral & Gem Society  
 Wells Fargo Center for the Art

50 Mark West Springs Road

Hours: Sat 10 - 6; Sun 10 - 5

Contact: Jolene Coon

Website: www.srmgs.org

**October 8 - 9: ANDERSON, CA**

Shasta Gem & Mineral Society  
 Shasta District Fairgrounds, 1890 Briggs Street

Hours: Sat. 9 - 5; Sun. 10 - 4

Steve Puderbaugh, 530-604-2951

Email: kelly13@shasta.com

Show Website: www.shastagemandmineral.com

**October 8 - 9: GRASS VALLEY, CA**

Nevada County Gem & Mineral Society  
 Nevada County Fairgrounds, 11228 McCourtney Road

Hours: 10 - 5 daily

Contact: Todd Lawson, (530) 305-9212

Email: webmaster@ncgms.org

Website: www.ncgms.org

**October 22 - 23: LOS ALTOS, CA**

Peninsula Gem & Geology Society  
 Los Altos Youth Center, One No. San Antonio Road

Hours: 10 - 5 daily

Contact: Steve Jobe, (408) 834-5384

Email: steve\_job@sbcglobal.net

Website: www.pggs.org

**November 12 - 13: SACRAMENTO, CA**

Sacramento Mineral Society  
 Scottish Rite Temple, 6151 H Street

Hours: Sat 10 - 5 daily

Contact: Alyssa Mesiznger, (916) 662-5819

Email: webadmin@sacramentomineralsociety.org

Website: http://sacramentomineralsociety.org

**November 12 - 13: YUBA CITY, CA**

Sutter Buttes Gem & Mineral Society  
 Yuba-Sutter Fairgrounds - Franklin Hall, 442 Franklin Ave.

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

**General Rules:**

- These trips are open to all rockhounds who agree to abide by the AFMS Code of Ethics, the directions of the field trip leader and practice safe rockhounding.
- Call the field trip leader beforehand to sign up and for further information.
- Remember to wear your name badge and **sign in and out** with the field trip leader.
- Consent and Assumption of Risk Waiver of Liability form must be signed upon arrival at meeting site.

<b>SCHEDULE for 2016</b>	
Sep 3-4	Cedarville, CA for petrified wood. Fossils For Fun. Contact: Debbie Bunn – 916-929-6665. Carole Lockhart and Keith Lindholm, (916) 599-8251, cjlockhart10@gmail.com or keith_lindholm@hotmail.com
Sep 23-25	Clear Creek Management Area for plasma agate and serpentine. Sacramento Mineral Society. Contact: Gina Malcolm, 707-685-4006 animalnurse668@outlook.com.



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

Send exchange bulletins to  
above address



September 2016

**\* First Class Mail \***



the  
**ROLLIN'  
ROCK**

ROSEVILLE ROCK ROLLERS, INC.



MEMBER, CALIFORNIA FEDERATION OF MINERALOGICAL SOCIETIES  
MEMBER, AMERICAN FEDERATION OF MINERALOGICAL SOCIETIES  
VOL. 57 NO. 9 SEPTEMBER 2016

EDUCATIONAL MEETING 2<sup>ND</sup> TUESDAY OF EACH MONTH, 7:00 PM  
EXECUTIVE BOARD MEETING 4<sup>TH</sup> 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**