



From the President's Pen

You never know what you'll see when you go to the Shop (our Rock Hound Oasis) on the hottest night of the year! We were recently delighted to have had a special visitor.

Some say the story went like this: A stray hawk flew into the club's shop one night with one of the club's jade nerds. Another version has the hawk being carried in and unveiled. Actually, the hawk is a handle in cast bronze with a nephrite jade blade from British Columbia, elegantly crafted by Georg Schmerholz for our local jade nerd. The box, with the built-in stand, is made of cedar and red-wood.

Metal work, wood work and lapidary brought to high art.

And in the future, the hawk might just visit the Big Sur Jade Festival this October.

— Teresa Johnson



Educational Program for August 11, 2015

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!

Inside this issue:

Meeting Minutes, Stately Fossils	2
New Members, Rookie News, Announcements, Exhibits Needed, Thank You's, Silent Auction	3
Lapidary Classes, Rose Quartz Wanted, Feather River Show	4
Book Review, Woolly Mammoth DNA	5
Big Bang in Antarctica-Killer Crater Found Under Ice	6
Calendar, Sunstone of the Vikings?	7
Letter of Appreciation, Co-Op Field Trip List	8

Vice President's Corner

Our VP, Matthew Stanley, is out of town. See this space next month for another of his amazing articles about mineralogy, specimen collecting and labeling, rocks in space, or any other aspect of our hobby which he enjoys writing about.

MINUTES FOR ROSEVILLE ROCK ROLLERS EDUCATIONAL MEETING JULY 14, 2015

Call to Order at 6:35 p.m. by President Teresa Johnson.
Flag Salute led by Jon North.
Introductions by guests.
Invocation given by Jon North.
Present: 59 members, 8 juniors and 5 guests.
Recess for potluck dinner.
Reconvened for business meeting.
Field Trips – members shared their recent field trips.
CFMS Director – Chuck Neely and Jon North presented the 2014 recipients for the Junior Rockhound of the Year Award (Lauren Loe) and Adult Rockhound of the Year (Teresa Johnson). Each received a certificate from CFMS and AFMS along with the newly designed pin.
Sunshine – Cyndy Burchard will be mailing a get well card to FT Leader Gene Engelbrite.
Juniors' Advisor – Carole Kowalik reported what the 5 Rookies did at the meeting.
Treasurer – Terry Yoschak asked for a volunteer to audit the 2015 show financial records. Kim Fiala volunteered to be the auditor.
Secretary – Florence Brady reported we have 295 members and expect with the new applicants to reach 300, a record number for members.
Librarian/Historian – Karla Shannon reported she did not bring any books for checkout. Michael Honodel donated the books "Follow the Drywashers". She appreciated, and the members applauded, the re-organization of the Library room done by Cathy Hutchings.
Programs/Vice President – Teresa reported the August meeting will be the annual Ice Cream Social.
Show – first 2016 Show Committee meeting will be Sept. 15th.
Tee Shirts, Vests, Patches – Teresa announced we have a new Chair, Jan Kessler, who will be accepting orders for these items.
Lapidary Classes – Teresa reported she will be scheduling another class with Jennifer Rhodes. A class on opal/intarsia will be held on July 16th.
Old Business – Teresa reported the Tailgater on June 6th was a success and that another one is planned for Oct. 3rd.
New Business - Teresa reported the Board did not receive any applications from Sierra College students who met our requirements for receiving our \$500 scholarship. Instead, RRR is donating \$500 to the Sierra College Museum Fund, for purchase of a short faced bear cast. A plaque indicating RRR is the donor will be placed by the bear fossil. Teresa thanked Karla Shannon for her many years of coordinating our scholarships. Richard Kowaleski will be coordinating our future scholarship efforts with Sierra College
Silent Auction – members were encouraged to check the items on the SA table.
Drawings – winners were: Member, Kim Loe; Junior, Nick Kakoulli; and Guest, Betsy Eaves.
Adjournment – meeting was adjourned at 8:35 p.m.

MINUTES FOR ROSEVILLE ROCK ROLLERS BOARD MEETING JULY 14, 2015

Call to Order by President Teresa Johnson at 8:47 p.m.
Officers Present – there were 10 officers present.
Membership Applications – a motion was MSA to accept the applications from Leo Dalkey, Betsy Eaves, Michael Honodel, Maria Kakoulli, Lisa Rose and Ron Shimizu. Membership now at 301 members.
Adjournment – meeting adjourned at 8:47 a.m.

Respectfully submitted,
Florence Brady, RRR Secretary



Stately Fossils



Wyoming is somewhat exclusive in regard to its state fossil – no other state has chosen a fish. *Knightia* deservedly claims this status since its abundance of fossil remains in the Green River Formation is so overwhelming and is found nowhere else in the world. The herring *Knightia* lived during the Eocene when Wyoming was subtropical with a large lake system that existed for about 20 million years. Fossil Lake, Lake Gosiute, and Lake Uinta were the principal lakes, with varying depths and longevity. Lake Uinta had the largest surface area, existed the longest but produced the least fossil fish. Gosiute reached the largest proportions with lake levels fluctuating the most. Fossil Lake was the deepest with the smallest surface area and the shortest existence of the three but is so named because it contains the best-known and recognized fossils. Much of the Lake is now preserved at Fossil Butte National Monument, near Kemmerer.

Missionaries first reported the fossils in the 1840s, and, between then and 1878, geologists and paleontologists continued their investigations through the Green River Formation helped along by the mapping project, with scientific surveying, by the Union Pacific Railroad. According to the Denver Museum of Nature and Science, *Knightia* is the most commonly collected vertebrate fossil in the world; in 1978, more than 20,000 specimens were excavated and commercially sold. Since so many remains are found together, it is assumed *Knightia* was a schooling fish. The die-offs probably were caused by low oxygen levels and burial was swift with little action by bacteria. *Knightia* became Wyoming's state fossil in 1987 through the persistence of Fred Hurlburt, a student at Anderson Elementary School in Cheyenne.

Via Chippers' Chatter 12/10

August Silent Auction

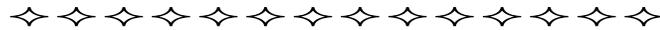
I will not take the usual summer break, but will prepare an auction for the August meeting. If you have material you plan to donate for a future auction, please let me know or bring it to a future meeting so I can make out an auction slip in advance. (916) 961-6868. Also, let me know what type of material you would like to see on future auctions. If we have it, I'll dig it out. If not maybe we will get it as a future donation.

Remember, pick up an extra piece on your field trips for the auction table.

— Hugh Brady, Auctioneer



NO August Board Meeting



Sunshine

A get well card was sent to Gene Engelbrite.

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.



Thank You for These Recent Donations

- Dolly McClure donated field trip information pamphlets and maps
- Michael Honodel donated a book on gold, "Follow the Drywashers"
- Jack Harris donated a faceting machine & a slant cabber

Donations Wanted

- Our Opal classes could use some finer grit belts or wheels. We are in need of 3,000, 8,000 & higher belts or wheels for use at the Shop.
- Indoor floodlights for shop, type MR16 GU10, 50 watt halogen
- toilet paper
- paper towels



Welcome New Members:

Leo Dalkey
Betsy Eaves
Michael Honodel
Maria Kakoulli
Lisa Rose
Ron Shimizu

Rookie Rock Roller News



The Rookies will meet in the lapidary shop at 5:30 on Tuesday, August 11, 2015. At our last meeting, we learned a little about names of rocks by playing Rock Bingo.

Some rookies yelled out bingo a number of times. Everyone was a winner from the prize box as each person hit blackout. A special thank you to all those who helped clean up, put away chairs and carried everything out to my car due to my ankle injury. We had such a nice bunch of kids and parents in that meeting! After the Juniors' meeting we went to the potluck at the adult education meeting.

Great food and desserts!

At this new meeting, we will also try to identify rocks using a game. After the meeting, join us at the adult meeting for the ice cream social. This summer break from our normal meetings might be a good time to see what badges you have earned. See me after the juniors' meeting to discuss the badge program.

See you all there,
Carole Kowalik, Junior Advisor
916-705-2124 home3004@gmail.com



Displays Wanted

The El Dorado Mineral & Gem Society is now taking applications for exhibit cases. Their Show theme this year is: "Amazing Agates."

Show dates: Oct. 17 & 18, 2015.

Contact: Fred Ott, Exhibits Chair
email: fred@fredott.net

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.

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

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

Chain Maille Samples with Judy Osmundson

Learn to make: Round maille

Inverted Round maille

Turkish Round Maille

Fee: \$25

Saturday, August 8, 9 am - 12:30 pm

Wire Wrap Cabochon Class with Judy Osmundson

Sunday, August 16, 9 am - 12:30 pm

Fee: \$25

Wire Wrap Cabochon Class with Jennifer Rhodes

Master Wire Wrapper from Reno, NV

Saturday, August 22, 9 am - 1 pm

Fee: \$30



Opal & Intarsia Workshops with George Comas Fee: \$10

Open Opal workshop! (Opals are available - included in fee) Doublets & Triplets, Boulder, Black & Honduran Opals. **No**

classes in August. We are in need of 3,000, 8,000 & higher belts or wheels for use at the Shop.

Wire Wrapping GET Together!

Will resume in September.

Get Crafty!

We meet every other Thursday 12 pm to 3:30 pm.

Will resume in September!

We'll be working with wire - bring your own projects.

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 lapi-

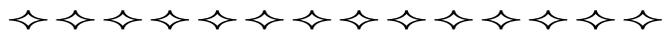
dary material, and enjoying the beauty of smaller specimens. Scopes provided or bring your own. Fee: \$5

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. 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.

If you want to sign-up for any of the above classes, email: classesforrockrollers@gmail.com



Wanted: Rose Quartz

An acquaintance of Kim Loe who is a breast cancer survivor is looking for a basketball size piece of rose quartz in a vivid pink for a back yard decoration. If one piece is not available then several large pieces would do. Her budget seems reasonable, or Kim might have material to trade.

Please contact Kim Loe at 916-220-0122.

Feather River Lapidary & Mineral Society presents
8th Annual
Rock, Gem and Jewelry Show
September 19 & 20, 2015
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
- Demonstrations in
- Wire Wrapping & Beading
- Food & Drink Available
- Silent Auction

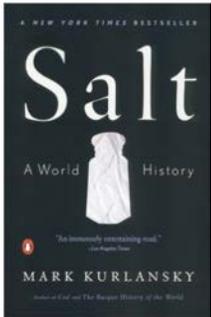
For the Kids
Wheel of Fortune
Kids Only Silent Auction
Grab Bags
Treasure Hunt

First 200 kids through the door receive a FREE Fossilized Shark Tooth Necklace

Home of the Worldwide Rock Tumbling Contest
www.featherriverrocks.org

Book Review

Salt: A World History,
by Mark Kurlansky



“Salt - the only rock we eat – has made a glittering, often surprising contribution to the history of human-kind” is the quote I saw on the rear jacket of the book. Yet this book is not just about salt, it is also about how this mundane substance has financed vast kingdoms, helped incite revolution, fueled exploration and influenced languages the world over.

How has salt done all of this? Well not salt but man, and his need for salt, has had an influence over civilization for several millennia. The author details how countries, regions and people advanced their culture; taxed their citizens; oppressed, conquered, enslaved their own and or others as well, all because of salt. This list includes China, Greece, Rome, Egypt, Ancient Celts, Vikings, Phoenicians, Venice, The Dead Sea, Great Salt Lake, The British Empire, India, France, Spain, Portugal, The American Colonies, and the Caribbean.

There are over 14,000 uses for salt: flavoring food, curing meats and fish for preservation (including the mummification process), pickling, the manufacture of gunpowder, melting ice on roads, curing of hides, a medium of exchange and the processing of silver, and it makes food taste good too!

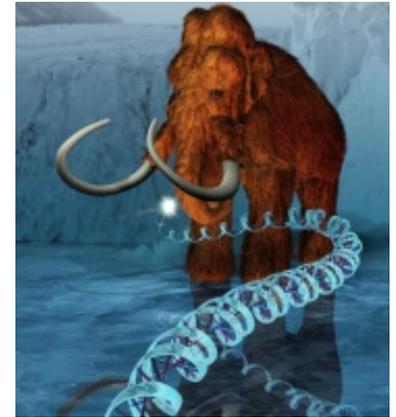
Salt also details how the words salary, soldier, salami and salad and the sayings: “worth his weight in salt” and “earned his salt” are related. Find out where the term “red herring” comes from and how salt and the Civil War influenced the recipe for Tabasco sauce. Meatless Holy days, a mandate of the Church in Rome fueled the need for salt cod, which then influenced the Puritans coming to the New World. Salt even influenced the development of Birdseye Frozen Food Company. Besides table salt (sodium chloride) there is magnesium chloride, potassium chloride, sodium nitrate, saltpeter, Natron, Epsom salt, potash, brine, soda and hundreds of other names and salt compositions are to be learned.

This detailed and wonderful read is composed of chapters such as: “The Odium of Sodium”, “Two Ports and the Prosciutto in Between”, and “The War Between the Salts”. Each chapter is it’s own history and science lesson so this is a book that can be read in order or randomly. *Salt* is available at Amazon.com.

Book Review by Laurie Kern, Fallbrook Gem & Mineral Society. Via Lithosphere 6/03

Woolly Mammoth DNA Sequenced

For the first time, scientists have mapped most of the genetic code of an extinct animal. Researchers from Penn State University today announced they have decoded about eighty percent of the woolly mammoth genome.



Using hair samples from several different mammoths discovered in Siberian permafrost, the scientists extracted many separate fragments of the 5 billion base pairs of mammoth DNA. They used computers to analyze the genetic information and construct a draft sequence.

Among the findings, mammoth DNA appears to differ from elephant DNA by less than one percent.

Though scientists say the technology does not yet exist to use this genetic code to create a modern living mammoth, they speculate that some day this will be possible.

The researchers were surprised to find very little genetic variation among the various species they analyzed.

“We discovered that individual woolly mammoths were so genetically similar to one another that they may have been especially susceptible to being wiped out by a disease, by a change in the climate, or by humans,” said Stephan C. Schuster, one of the project’s leaders.

Thanks to advances in technology, the program was completed with a small budget and staff. The task was also accomplished faster than any comparable sequencing program; the project only took a few months from start to finish.

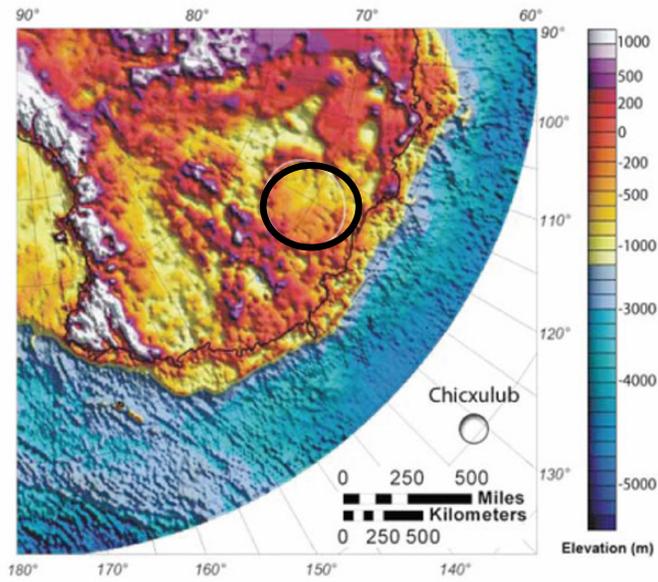
From
www.prehistoricplanet.com/news/index.php?id=58

Related Links:

<http://www.nature.com/nature>

<http://rw.mammoth.psu.edu/index.html>

BIG BANG IN ANTARCTICA—Killer Crater Found Under Ice



Planetary scientists have found evidence of a meteor impact larger and earlier than the one that killed the dinosaurs, an impact that they believe caused the biggest mass extinction in Earth's history. The 300-mile-wide crater lies hidden more than a mile beneath the East Antarctic Ice Sheet, and the gravity measurements that reveal its existence suggest that it **could date back about 250 million years, the time of the Permian-Triassic extinction, when almost all animal life on Earth died out.** Its size and location, in the Wilkes Land region of East Antarctica, south of Australia, also suggest that it could have begun the breakup of the Gondwana super continent by creating the tectonic rift that pushed Australia northward. Scientists believe that the Permian-Triassic extinction paved the way for the dinosaurs to rise to prominence. The Wilkes Land crater is more than twice the size of the Chicxulub crater in the Yucatan peninsula, which marks the impact that may have ultimately killed the dinosaurs 65 million years ago. The Chicxulub meteor is thought to have been 6 miles wide, while the Wilkes Land meteor could have been up to 30 miles wide, four or five times wider.

"This Wilkes Land impact is much bigger than the impact that killed the dinosaurs and probably would have caused catastrophic damage at the time," said Ralph von Frese, a professor of geological sciences at Ohio State University. He and Laramie Potts, a postdoctoral researcher in geological sciences, led the team that discovered the crater. They collaborated with other Ohio State and NASA scientists, as well as international partners from Russia and Korea.

The scientists used gravity fluctuations measured by NASA's GRACE satellites to peer beneath Antarctica's icy surface, and found a 200 mile wide plug of mantle material, a mass concentration, or "Mascon" in geological parlance, that had risen up into the Earth's crust. Mascons are the planetary equivalent of a bump on the head. They form where large objects slam into a planet's surface. Upon impact, the denser mantle layer bounces up into the overlying crust, which holds it in place beneath the crater. When the scientists overlaid their gravity image with airborne radar images of the ground beneath the ice, they found the mascon perfectly centered inside a circular ridge some 300 miles wide, a crater easily large enough to hold the state of Ohio. Von Frese and Potts admitted that such signals are open to interpretation. Even with radar and gravity measurements, scientists are only just beginning to understand what's happening inside the planet. Still, von Frese said that the circumstances of the radar and mascon signals support their interpretation. "We compared two completely different data sets taken under different conditions, and they matched up," he said.

To estimate when the impact took place, the scientists took a clue from the fact that the mascon is still visible. "On the moon, you can look at craters, and the mascons are still there," von Frese said. "But on earth, it's unusual to find mascons, because the planet is geologically active. The interior eventually recovers and the mascon goes away." He cited the very large and much older Vredefort crater in South Africa that must have once had a mascon, but no evidence of it can be seen now. "Based on what we know about the geologic history of the region, the Wilkes Land mascon formed recently by geologic standards, probably just 250 million years ago," he said. "In another half a billion years, the Wilkes Land mascon will probably disappear, too."

He and Potts would like to go to Antarctica to confirm the finding. The best evidence would come from the rocks within the crater. Since the cost of drilling through more than a mile of ice to reach these rocks directly is prohibitive, they want to hunt for them at the base of the ice along the coast where the ice streams are pushing scoured rock into the sea. Airborne gravity and magnetic surveys would also be very useful for testing their interpretation of the satellite data, they said. The National Science Foundation (NSF) and National Aeronautics and Space Administration (NASA) funded this work.

Via The Rockhounder July/August 06

Sunstone of the Vikings?



The mineral cordierite is thought to be the source of the famous sunstone of the Vikings, who, in the ninth century, were expert navigators. Without benefit of compass, Viking sailors managed to ply their

watery routes of conquest and commerce, navigating by the stars at night and the sun during the day. No matter what the weather, according to ancient Scandinavian sagas, the sun could be located with the aid of the magical "Sun Stone."

Summarizing sunstone lore in a recent article in the archaeology magazine "Skalk", Danish Archaeologist Thorkild Ramskau, lamented that none of the sagas clearly describe the sunstone. "But there seems to be a possibility," he wrote, "that it was an Instrument which, in cloudy weather, would show where the sun was." Now, with a clue supplied by a young archaeology enthusiast, Ramskau has discovered the secret of the sun seeking stone of the ancients.

To the ten-year old son of Jörgen Jensen, chief navigator of the Scandinavian Airline System, the instrument described in "Skalk" sounded like the twilight compass used by his father at higher altitudes, where the magnetic compass is unreliable. The twilight compass is equipped with a Polaroid filter that enables a navigator to locate

the sun, even when it is behind the clouds or below the horizon, by the light polarized by the atmosphere. Intrigued by his son's observation, Jensen passed it to Ramskau, who immediately recognized its scientific implication. Enlisting the aid of Denmark's Royal Court Jeweler, the archaeologist collected minerals found in Scandinavia whose molecules are aligned parallel to each other just as the crystals are in a Polaroid filter. Ramskau found one of these minerals, a transparent crystal called cordierite, turned from gray to violet-blue whenever its natural molecular alignment was held at right angles to the plane of polarized light from the sun. Thus, he reasoned, a Viking could have located the sun by rotating a chunk of cordierite until it turned blue.

Putting cordierite to the test, Ramskau accompanied navigator Jensen to a S.A.S flight to Greenland keeping track of the sun with his stone while Jensen used the twilight compass. His observations were accurate within 2 1/2 degrees of the sun's true position, and he was able to track the sun until it dipped 7 degrees below the horizon.

"I now feel convinced," Ramskau concludes, "that the old Vikings, with the aid of their sunstones, could navigate with enormous accuracy."

Via West Seattle Petroglyphs 6/03, Chippers' Chatter 7/06

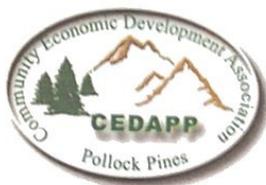


August Calendar

Birthstone: Peridot



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



"THERE'S GOLD IN THEM THAR HILLS!"

A 501 (C) 3 TAX EXEMPT ORGANIZATION
 COMMUNITY ECONOMIC DEVELOPMENT ASSOCIATION OF POLLOCK PINES
 P.O. BOX 424, POLLOCK PINES, CA 95726 (530) 419-3957
 CEDAPP@POLLOCKPINES.BIZ WWW.POLLOCKPINES.BIZ

July 14, 2015

Roseville Rock Rollers
 P.O. Box 212
 Roseville, CA 95678

To Whom It May Concern:

I am sending this letter of appreciation to you in great gratitude for the very informative booth set up by Mr. Richard Kowaleski on July 4th at our annual Independence Day Celebration in Pollock Pines.

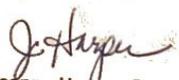
The booth itself was very attractive and appealing, but it would have fallen short if not for the sterling discussions led by Mr. Kowaleski. All of the folks who stopped by were indeed mesmerized by his knowledge and great experience.

He told me after the event that he was quite happy with his location (mostly in the shade all day!) and the numbers of people who did take the time to check him out. He also said that being near the food booths helped the attraction! 😊

We all so appreciated him, especially coming from so far on a very special day. Will you please pass this letter and certificate on to him? That would be awesome!

Again, thank you so much for all that you do to inspire and motivate us beginner geologists!

Most sincerely,


 Jeanne Harper, Executive Director

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.

SCHEDULE for 2015	
Sep 26-27	Wilson Canyon, CA for Agate, Petrified Wood, fossils, Calcite, Gypsum, Jasper and more. El Dorado Co GMS. Contact Thaleia Georgiades 530-957-3800 thaleia@directcon.net. See write-up in July bulletin.
Oct 16-19	Holbrook, AZ for petrified wood. Fee dig. Fossils For Fun. Contact: Debbie Bunn 916-929-6665
Oct 24-25	Lovelock, NV for Druzy Quartz, Magnetite Crystals, Magnetite, Magnetite/Pyrite, Emerald Crystals in Pegmatite, Opalite. Roseville Rock Rollers. Contact Gene Engelbright (530) 367-5108 or Jim Hutchings jhutchings22@hotmail.com

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

Send exchange bulletins to
above address



Ice Cream Social
August 2015

*** First Class Mail ***



the
**ROLLIN'
ROCK**

ROSEVILLE ROCK ROLLERS, INC.



**MEMBER, CALIFORNIA FEDERATION OF MINERALOGICAL SOCIETIES
MEMBER, AMERICAN FEDERATION OF MINERALOGICAL SOCIETIES
VOL. 56 NO. 8 AUGUST 2015**

**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