



From the President's Pen

Glenn is under the weather, but he wants to send a message to everyone, hoping that you all had a great Christmas holiday season, and that you will all have a Happy New Year 2022.

Above all, let's hope we all get some good rockhounding in this year!

For those of you lucky enough to be traveling to Quartzsite or Tucson in the next month or so, please take care and travel safely. Come back and tell us about all the great things you saw, and bought!

Now here are a few websites to check out — some borrowed from Glenn's previous articles, and some which I found on my own:

Some great Brazilian Geode sliced images:
<https://www.gia.edu/gia-museum-exhibit-eyes-of-brazil>

Stunning satellite images of earth:
<https://www.livescience.com/best-landsat-images-of-earth.html>

The asteroid that missed Earth in November:
<https://www.livescience.com/surprise-asteroid-flyby>

— Editor

LATE Membership Renewal Form is on Page 6

Vice President's Corner

As we welcome in the new year, I thought it would be a good time to take a couple short video-trips for minerals, right from the comfort of our educational meeting.

First, we will take a quick trip to Arkansas to find Quartz crystals in the muddy walls of the Quartz mines, to discover the beautiful treasures hidden there.

Then, we will head back to Southern California (near San Diego) to look for breath-taking Tourmaline crystals. Some are so unique, they are now on display in the Smithsonian Museum. What an exciting find! Come see what still stirs the hearts of crystal collectors the world over.

Bring a friend who'd love to be impressed, on a short, comfortable mineral tour. Refreshments will be provided!

— Vernon Deck



Educational Program January 11, 2022

*Videos on Arkansas Quartz
crystals and California
Tourmalines*



*(In Jones
Hall)*



Inside this issue:

Meeting Minutes, Renewing RRR Membership Dues for 2022	2
Welcome New Members, Rookie News, Lapidary News, Announcements	3
The Kaali Meteorite Catastrophe	4
Lapidary Shop News, Intarsia Classes, Silver-smithing Classes, Upcoming Shows	5
Late Membership Renewal Form, Calendar	6

MINUTES FOR ROSEVILLE ROCK ROLLERS EDUCATIONAL MEETING DECEMBER 14, 2021

Call to Order by President Glenn Fiala at 6:45 p.m.

Pledge of Allegiance to the Flag.

Recognized Guests.

Present: Members 54; Juniors 5 and Guests 9.

Recess for Dinner.

Invocation given by Carole Kowalik.

Reconvened for Business Meeting:

Sunshine Report: A get well card was sent to Steve Todd.

Juniors Activities – Carole Kowalik reported there were 7 Juniors who made a holiday project.

Treasurer – Terry Yoschak – was absent, no report.

Secretary - Florence Brady reported membership is 256 and we are accepting renewals for membership.

Vice President, Vern Deck –January Ed. Mtg. will be video presentations on collecting quartz in Arkansas and collecting tourmaline in California. In February, Bob Rush will give a presentation.

CFMS Director - Barbara Loudon. No report, was absent.

Vests, Tee Shirts, Patches – for sale, see Fran Todd.

Field Trips - Gene Doyle was absent. He is working on a possible field trip to the rock shop in Vacaville.

Librarian/Historian - Karla Shannon reported she did not bring any books. Please return any you might have after 60 days.

Show Chair – no report, office is vacant.

Lapidary Shop –Denise Coyne stated all is going well. In January, the shop will be closed for one week, so all the rocks can be cleaned up.

Refreshments – sign up page on Greeter's table. Need signups for 2022.

Class Coordinator - Cathy Nelson reported the only classes right now are for silversmithing.

Old Business: none

New Business: none

General announcements: refer to our Bulletin for upcoming shows.

Program –

Glenn passed out to the Officers for 2021, each one's CFMS triangle or bar for 2021.

Installation of Officers for 2022 was performed by Jim Hutchings.

Gift Exchange was done among those who participated.

Adjournment at 8:08 p.m.

MINUTES FOR ROSEVILLE ROCK ROLLERS BOARD MEETING DECEMBER 14, 2021

Call to Order by President Glenn Fiala at 8:20 p.m.

Present – 8 Officers, for a quorum.

Membership Applications – a motion was MSA to accept the membership applications received from Annette Bergschneider, Susan Foley, Kelsie Kieffer & Casmira Scroggins, a junior, Lynette Masztakowski and Bill McCaskill.

Rocks at the Lapidary Shop – a discussion occurred regarding the sale of rocks at our Shop, as some sales were for personal use. A motion was MSA to limit the sale of rocks for personal use to 5 lbs. per month.

Monthly Board Meeting - it was agreed not to have a Board Meeting on December 28th.

Adjournment – meeting was adjourned at 8:30 p.m.

Respectfully submitted,
Florence Brady, RRR Secretary

January Board Meeting

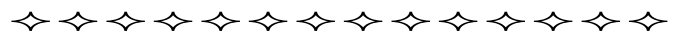
The meeting will be held Tuesday, January 25, at 7:00 PM in the club Lapidary Shop at the Fairgrounds.



January Refreshments

Refreshments for the January 11th Educational meeting are to be provided by Gene Doyle and Holli Hinkle.

We could use a few more volunteers to bring refreshments!



RENEWING RRR MEMBERSHIP DUES FOR 2022

If you have not renewed your Membership with RRR for 2022, you still can do this. Just fill out the enclosed LATE Renewal form, (on Page 6 of this bulletin) along with the proper payment and either send to our PO Box listed on the form or bring to the January 11th Educational Meeting and give to the Secretary.

As per instructions on the 2022 renewal forms e-mailed during the past 3 mos. payment received after December 31, 2021 will be assessed an assessment fee of \$5.

If you need to renew and haven't, the January RRR bulletin will be the last one e-mailed.

Florence Brady, RRR Secretary/Membership Chair

To Current Unrenewed Members:

This will be your last issue of the bulletin if you do not renew your membership!

If you are renewing, please add the \$5 assessment to your check.

Welcome New Members:

Annette Bergschneider
Susan Foley
Kelsie Kieffer
Lynette Masztakowski
Bill McCaskill

Welcome New Junior Member

Casmira Scroggins

LAPIDARY NEWS

Happy New Year, everyone.

Saturday February 26th, the Lapidary Shop is having a clean up day. We are asking for any help members can give us. (Rain date will be announced as we get closer to the 26th).

That day we want to sort and clean all the rock around the shop. Also need help with the back of the shop, weed whacking and some rearranging. The more people we have the faster and easier on our backs it will be. Volunteers don't have to be able to identify the rocks.

We also need some help with collecting things before that date.

- Black plastic garden pots. All sizes. If you have a gardener, ask them for any pots they have. (We would take these anytime of the year)
- Old tee shirts for screening oil.
- Any leftover weed block material.

All this can be either brought to the next meeting or dropped off at the shop during class hours.

On the 26th we will need:

- 2 or 3 pressure washers.
- Gas powered weed whackers.
- Hand carts.

If you have one of these we can use, please contact Denise.

Contact Denise 714-393-0006, If you have any questions. Thank you.

ALL ROCK SALES AT THE SHOP ARE SUSPENDED UNTIL AFTER FEB 26TH, OR IF WE HAVE A TAILGATER.

— Denise Coyne, Lapidary Shop Director

Rookie Rock Roller News



The Rookies will meet in Jones Hall at 5:30 p.m. on January 11, 2022.

We will learn about Gallium. After the discussion, we will have a fun activity.

Last month, in December, we made pine cone Christmas trees. We joined the adults for the annual potluck. There was so much food and many treats.

Keep in mind, we can work on badges if you contact me by email, text or phone.

I hope to see you all there.

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



Sunshine

A get well card was sent to Rolf Zschoernig.

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



The Kaali Meteorite Catastrophe

By Dr. Bill Cordua, University of Wisconsin

We have evidence that past asteroid or comet impacts have caused mass extinctions such as that of the dinosaurs 65 million years ago. We have also seen movies and read articles about possible catastrophic effects to future civilization from such impacts. These events are hard to grasp, perhaps because we have no record of great human suffering due to such impacts in our history. Some see passages in the Bible or in other traditions (such as the Scandinavian Ragnarok) as indications of past catastrophic events (Gribbin and Gribbin, 1996). One would not expect, however, hard scientific evidence that those parts of ancient history were associated with a comet or asteroid impact. Recently, however, researchers in Estonia and Sweden have turned up evidence of a meteorite causing havoc in an Estonian island community (Veski, et. al., 2001).



Scientists studying the geology of an island of Saaremaa, off the coast of Estonia, found evidence that a large iron meteorite, perhaps weighing 1000 tons, fell on this island between 800 and 400 B.C.. Such an impact would unleash a force slightly greater than that of the Hiroshima A-bomb. Archeological records show that at that time the island was densely populated. Little is known of these people as they left no written record.

The evidence for meteorite impact at this time is certain. An impact crater, 350 feet across, called the Kaali Crater, was found. It now forms a shallow lake. At least 8 satellite craters surround the main one. Crater morphology indicate the impact released the energy equivalent to 20 kilotons of TNT. Fragments of meteoritic nickel-iron are associated with the crater, as are beads of glass formed by shock melting of rocks upon impact. High iridium concentrations in the lake sediments are also evidence of meteorite impact. Carbon 14 dating of the peat deposited in the lake and nearby bogs pin-point the impact as occurring between 800 and 400 years BC.

Saaremaa was densely inhabited then, as it had been for thousands of years before the impact. Many Bronze Age artifacts are found there, as are the remains of towns, fields and fortresses. Cattle and crops formed the basis for the economy. Pollen deposited in nearby fens and bogs allow a detailed re-creation of the vegetation before, during and after impact. Before impact, a number of pollen grains from a variety of cultivated cereals were present, along with tree and herb pollen. At the time of impact, a unique deposit formed. This was a layer of glass spherules, meteorite fragments, rock dust, charcoal and burned stumps. **Sediment deposited for the 100 years following impact was quite different from what went before.** There was no cereal pollen and little tree pollen found, only an increase of dwarf shrubs. Eventually pollen populations return to their pre-impact character.

Veski et. al.'s interpretations of this data paint a stark picture. **The people were hit suddenly with the force of a Hiroshima-size explosion. By comparison with Hiroshima, no living thing likely survived within a mile of the crater.** Flash burning of vegetation would occur up to 2 miles away, setting the stage for still wider wildfires. All structures up to 6 miles away would have collapsed. That the culture itself collapsed is indicated by the fact that there was no sign of crop cultivation for 100 years after the impact, although there are signs that survivors used the edge of crater in a fortification soon after impact.

One wonders what the survivors must have thought had happened to them, or how they would have described it to others. What influences might this have on stories and legends down to this day?

References:

- Gribbin, John and Mary Gribbin, 1996, *Fire on Earth*, St. Martin's Press, 264 p.
Veski, Siim, A. Heinsalu, K. Kirsimae, A. Poska and L. Saarse, 2001, "Ecological catastrophe in connection with the impact of the Kaali meteorite, about 800-400 B.C. on the island of Saaremaa, Estonia", *Meteoritics and Planetary Science*, vol. 36, p. 1367-1375.
Cordua, William S., "Articles for the Leaverite News," 26 Aug. 2006, <http://www.uwrf.edu/~wc01/Kaali.htm>

Photo from <https://www.visitestonia.com/en/kaali-field-of-meteorite-craters>

Lapidary Shop News

Lapidary Shop: We are still open for the cabochon classes, open sessions and Mineral ID. This will be by appointment only, there will be no drop-ins at this time.

Classes will be a limited to 6 students/ people at a time due to COVID mandates.

Students must call the instructor for the day that they wish to attend for an appointment.

Everyone must wear a mask covering the mouth and nose while in the shop. Also, everyone must wash their hands or use a hand sanitizer before signing in.

The schedule is:

Mondays: 5PM to 9PM. Instructor is Vernon Deck. Please call him to set up an appointment. (805) 598-3206

Wednesdays: 11AM to 3PM. Instructor is Holli Hinkle. Please call her to set up an appointment. (916) 579-8011

Wednesdays: 5PM to 9PM Instructor is Fran Todd. Please call her to set up an appointment. (310) 987-0642

Mineral ID: with Jim Hutchings. Please call him for an appointment. (916) 995-7380

Thursdays: OPEN SESSIONS: Thursdays: 5PM to 9PM. Monitor is Holli Hinkle. Please call her to set up an appointment. (916) 579-8011

This open shop time is for those who have completed RRR's introductory cabochon class. Starting in July the open shop will be every Thursday. The usual \$5.00 shop fee will apply. — Please contact Cathy for any questions. 925-321-2024.

***The Monday and Wednesday classes are still being limited to 6 students.

Denise Coyne, Shop Chairperson 714-393-0006



Intarsia Classes (Offsite)

Bill Simpson is offering Intarsia Classes at his shop in Meadow Vista.

The classes are two, 1/2 days. Fee is \$85.00 which includes \$5.00 to the RRR as a shop fee.

Or have you have taken Bill's class, and would like some more shop time?

Bill has offered open shop time for \$25.00 for a half day those who have already taken his Intarsia class.



Please contact Bill Simpson 408-799- 3243 to schedule.

I have attached a picture of a wonderful Intarsia piece that Bill did.

Cathy Nelson, Classes Coordinator

Silver-smithing Class (Offsite)

Silver-Smithing 3-in-1 at 9:30 AM to 4:30 PM, Sunday, 1/16/2022 at Dan Bender's "The Studio 26" in Cameron Park.

All tools and material are supplied. The class fee is \$60.00 plus the usual \$5.00 RRR shop fee. Prepayment is required. Please contact Cathy Nelson (925-321-2024 or canelson2@netscape.net) to check for openings and register for the class.



Cathy Nelson, Classes Coordinator
Cathy Nelson (925) 321-2024
Email: canelson2@netscape.net



Upcoming Northern California Shows

January 15-16, 2022 – Exeter, CA
Tule Gem & Mineral Society
Exeter Memorial Building, 324 N. Kaweah Ave.,
Exeter, CA
Contact: (559) 802-6029

February 12-13, 2022 – Antioch, CA
Antioch Lapidary Club
Jewelry, Gem & Rock Show
1201 West 10th St., Antioch, CA 94509
Hours: 10 AM – 5 PM
Admission: \$6
Contact: edysnyder@gmail.com
Website: <http://www.antiochlapidaryclub.com>

ROSEVILLE ROCK ROLLERS – LATE MEMBERSHIP RENEWAL for 2022

(Please do not add a new member to this form)

If your personal/contact information is the same, just write SAME on this form, under your name(s).

NAME(S) _____

ADDRESS _____

Street

City/State

Zip

PHONE # including area code (_____) _____

E-MAIL _____
(e-mail address will be part of the Club's Membership Roster)

DUES:

Adult (one) Membership \$20.00 per year

Family Membership \$30.00 per year
(2 adults, same address)

Junior Membership \$8.00 per Junior Member

_____ **Amount Paid including \$5.00 assessment fee.** **Ck. #** _____

Dues not paid until after December 31, 2021 will be delinquent and an assessment of \$5.00 will be charged. Checks should be payable to RRR or Roseville Rock Rollers.

If paying by US mail, please mail to: Roseville Rock Rollers Gem & Mineral Society
P.O. Box 212, Roseville, CA 95678



January Calendar

Birthstone: Garnet



Sun	Mon	Tues	Weds	Thurs	Fri	Sat
2	3 Crafty Day 10-2 Lapidary Shop 5:00-9:00 pm	4	5 Lapidary Shop 11:00 am-3 pm 5:00-9:00 pm	6 Lapidary Shop 5:00-9:00 pm ***	7	1/8
9	10 Lapidary Shop 5:00-9:00 pm	11 Meetings: Rookies 5:30 pm Club 7:00 pm	12 Lapidary Shop 11:00 am-3 pm 5:00-9:00 pm	13 Lapidary Shop *** 5:00-9:00 pm	14	15
16	17 Crafty Day 10-2 Lapidary Shop 5:00-9:00 pm 	18	19 Lapidary Shop 11:00 am-3 pm 5:00-9:00 pm	20 Lapidary Shop 5:00-9:00 pm ***	*** You must have completed the RRR introductory cabochon class to come to these Thursday sessions.	
23	24 Lapidary Shop 5:00-9:00 pm	25 Board Meeting 7:00 pm	26 Lapidary Shop 11:00 am-3 pm 5:00-9:00 pm	27 Lapidary Shop 5:00-9:00 pm ***	28	29
30	31 Lapidary Shop 5:00-9:00 pm	For questions about classes, contact : Cathy Nelson (925) 321-2024 Email: canelson2@netscape.net				

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

Send exchange bulletins to
above address



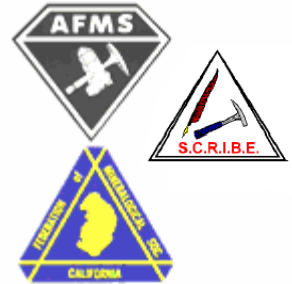
January 2022

*** First Class Mail ***



the
**ROLLIN'
ROCK**

ROSEVILLE ROCK ROLLERS, INC.



**MEMBER, CALIFORNIA FEDERATION OF MINERALOGICAL SOCIETIES
MEMBER, AMERICAN FEDERATION OF MINERALOGICAL SOCIETIES
VOL. 63 NO. 1 JANUARY 2022**

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

**EDUCATIONAL MEETING LOCATION: @THE GROUNDS,
JONES HALL, 700 EVENT CENTER DRIVE, ROSEVILLE, CA**

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