



Rockonteur

Volume 31, Issue 11

November 2021



NAME THAT ROCK

The banner photo (above) changes each month - can you identify what type of rock it is? Answer is on last page but don't peek until you've tried to guess!

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NOTE FROM EDITOR

We need your input to make this newsletter relevant and interesting. Please submit articles, photos to the editor.

PRESIDENT'S MESSAGE

Hello Rockhounds,

We need your vote! The November meeting is a very important one for your participation as we need to vote to accept the slate of officers for 2022. So please plan on attending the November 15th General Meeting.

Congratulations to the Santa Lucia Rockhounds for being recognized as the #2, Best Club in the nation by the AFMS. A big thank you to our **Historian, Mark Nelson**, for his fantastic job with our club scrapbook and his many entries in the CFMS and AFMS competitions. You rock!

Our year is winding down. We've made it to the holiday season, we've set our clocks back and darkness is falling faster, but we still have the weekend daylight to peruse canyons and riverbeds for our favorite rocks. We've had a recent storm that should have exposed some goodies that are now just waiting to be found. If you are interested in coming to a meeting to socialize with your fellow rockhounds, you're in luck, we are meeting again this month on the third Monday night at the Templeton Community Center - face masks required. I'm looking forward to seeing everyone again.

We will be having a **great program**, put on **by our own Barbara Bilyeu and Galen Moyer**. They will be introducing us to the **"Thunder Eggs of the Wiley's Well; district"**. Again we still have no Hospitality person so, feel free to bring your own drink, if you wish, in a spill proof container.

Don't miss the display table for our new Juniors program for next year, headed up by our up-and-coming **VP of Education, Mary Beatty**.

Thank you, **Amy Phillips**, for stepping up to handle the drawings at our general meetings. The club still needs volunteers for Hospitality, Librarian and Merchandise chairpersons, so if you are interested in getting involved, please contact your president. Please support your club by buying tickets for our drawing or participating in our silent auction. Without having a Gem & Mineral Show, we have had no income and every little bit helps.

Don't forget to check out **Cliff's tailgate on November 20th** (see the announcements section).

I'm sorry to report that, due to the burdensome requirements of the Culinary arts Academy and Covid-19, the Board voted to cancel the "Christmas Dinner and Officer Installation", normally held in December.

On another note, if you're planning to go to Quartzsite in January and haven't made your reservations yet, now is the time! I'll see you there.

Hats off to **Tina Clark and Rachel Phillips**; they will be putting on a "saw and polish" demo for a local scouting group on November 16th. Good job ladies, you're keeping our club's presence out there in the community. If anyone wishes to help them out, contact Tina Clark.

I hope everyone has a happy Thanksgiving.

Rock on, Lisa King



Santa Lucia Rockhounds is a non-profit public benefit corporation with the specific purpose to promote the study of mineralogy,

including (but not limited to) the fields of lapidary, metal working, jewelry design and fabrication, geology and conducts field trips for collecting and education. We encourage learning and good citizenship in a congenial atmosphere. We respect both private and public property, and we strive to protect natural resources. Meetings are held during the third Monday of each month, except December, at the Templeton Community Center.

We are a member of the California Federation of Mineralogical Societies (CFMS) and affiliated with the American Federation on Mineralogical Societies (AFMS). Santa Lucia Rockhounds, Inc. is also a member of the American Lands Access Association (ALAA).

Annual dues are \$20 for the first adult and \$8 each for every additional member of the same household. Annual dues are payable between August 1 and the third Monday of December, in person at Club meetings or by mail to P.O. Box 1672, Paso Robles, CA 93447.

The Rockonteur is the official monthly newsletter of the SLR and an independent publication containing news and information consistent with the mission of SLR and of interests to its members. Circulation is approximately 100 copies per issue.

Member submissions are encouraged and may be sent to the editor. We reserve the right to accept or refuse submissions inconsistent with the objectives and purpose of the SLR. Submissions may be edited as needed without consent. Deadline are due by midnight of the last day of the month but early submissions are highly appreciated and strongly encouraged.

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2021

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AVAILABLE

NEWS & ANNOUNCEMENTS

SEPT CFMS/AFMS REPORTS

By Wayne Mills, CFMS Rep.

CFMS (cfmsinc.org):

The CFMS (and possibly AFMS) Bulletin Editors Advisory Chair position(s) is open with the retirement of current Chair person Suzanne Webb. Other positions open are: Show Dates Chair, Safety Chair and Field Trips South.

The bulletin lists several CFMS Funds that need funding, and an invitation to the Annual Business Meeting in Visalia on November 12-14, 2021.

The 2022 Slate of Officers was announced. It included: President: Don Barton, 1st V.P. Kimberly Fiala, 2nd V.P. Bob Rush, Secretary: Heidi Hall, Treasurer, Diane Cook.

The 2022 CFMS Website Contest entries are due by 11/18/2021. 2022 Bulletin Contest entries should be turned into the new BEAC by January 1, 2022.

AFMS (amfed.org)

Sue Webb continues to edit the AFMS Bulletin., The November edition has an introduction of the new AFMS President **Margaret Kolaczyk** (from California), and a wrap-up of some Midwest Federation shows by Immediate Past President, **Judy Beck**.

Dragon Eggs and Dragon Puppets are being offered in exchange for donations to the AFMS Endowment Fund.

Jim Brace-Thompson wrote an article about keeping the interest of Junior Members during the Pandemic by offering kid-oriented field trip opportunities.

Ellery Barrow, AFMS Safety Chair has an interesting column on signs of common medical problems and suggested solutions. Ellery also wrote about our stamp collection program for the Kiwanis, and about suggested rock-related themes for new stamp issues.

Lynn Baldwin, owner of fine-find.com wrote a nice article about Montana Agates, a lovely and varied stone from the Yellowstone River of Montana.



FOR SALE **\$300 OBO**

Proceeds go to the Club. Contact president if interested.

SHOWS

November 13-14, 2021 – Yuba City Sutter Buttes Gem and Mineral Society 29th Festival of Gems and Minerals. More info: sutterbuttesgemmin.org

November 20-21, 2021 – El Cajon Valley Gem and Mineral Society Annual Rock and Gem Round-up. More info: <http://ecvgms.org>

November 20-21, 2021 – Santa Cruz Mineral and Gem Society. More info: <http://scrockngem.org>

PROPOSED SLATE OF OFFICERS FOR 2022

Please cast your vote in the November 15 meeting.

President - Kim Noyes

Senior Director - Stuart Russell

VPs Membership - Kathy Clarke

VP Education - Mary Beatty

VP Communications - Don Barton

Secretary - Jacque Hughes

Treasurer - Tina Russell

Junior Director - Caleb Willis



NOV 20, 9am-1pm
Cliff's Tailgate/Yard Sale

TAILGATE

6384 Monterey Road
Paso Robles

Free to sell items as a Club member
Setup is at 8am
Bring your own table, chairs, food, etc.
Call 805-610-1578

October General Meeting

The October 18 meeting featured **awards presentation** by Mark Nelson to Lisa King on behalf of our Club winning the AFMS Bronze Award in the All-American Federations Club Awards Contest, and Amy Phillips for placing second in the small bulletin category for the CFMS Bulletin Contest.



In lieu of a program, we had a Show & Tell of members' favorite tool, and also the Brag Table.

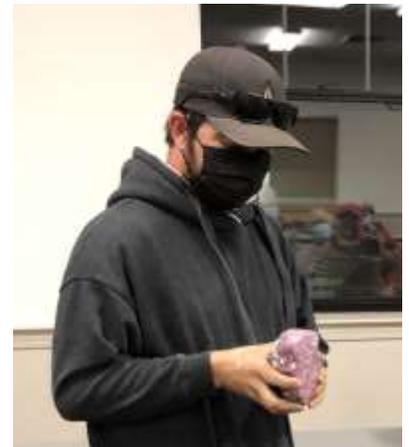


Kim said his camel bag is very handy not only to stay hydrated during field trips but also to wash rocks while out and about. He also showed off a cube made from a whale skull.



Sam brought in his pin pointer for metal detecting, and specimens he found while camping in Death Valley.

Caleb brought in a beautiful chunk of ruby crystal and botryoidal jade.



Lisa brought in tools very handy for jewelry making while Mary brought in her rock pick. Richard showed off his multi-use "treasure scoop" which helps scoop up stuff without having to stoop or bend down.



Program for the November meeting:

Please join your fellow Santa Lucia Rockhounds for an armchair travel tour of "Down a Desert Road: the Thundereggs of the Wiley's Well District". Barbara Bilyeu and Galen Moyer, assisted by Gene Bilyeu, will present a slideshow of their travels to this fascinating area southwest of Blythe, California. Blythe is a staging area for Wiley's Well District rockhounding as well as the nearby (just across the Colorado) rockhound bash known as Quartzsite, which is coming up in January. Both provide some great rock collecting opportunities. So don't miss the November meeting!



Rockhounds Out & About

Kim Noyes,
Field Trips Coordinator

Soon it will be the season not only for Holidays but also for beachcombing and rockhounding the Gaviota Coast, much of which burned or lands of its watershed burned in the Alisal Fire last month. Go after significant rains or large swell events. I'm sorry that I cannot lead any field trips this month as I am moving from Paso Robles back to Atascadero all the while working and caring for my aging mother. See you at our general meeting this month as well as Cliff's tailgate sale. Happy Rockhounding Season!



A life less obvious: Study sheds light on the evolution of underground microbes

<https://www.sciencedaily.com/releases/2021/11/211102111213.htm>

These ecosystems host microbial lineages that are of interest for understanding the origin and evolution of life on our planet but remain the least explored and understood ecosystems on Earth, according to the authors of a new study that takes a closer look at how deep habitats changed during Earth's tumultuous past.

"Understanding the history of the deep biosphere can provide insight into the evolution of life on Earth," said Peter Reiners, a professor of geosciences and associate dean of the University of Arizona College of Science, who co-authored the paper with Henrik Drake, an associate professor at the Linnaeus University in Sweden. "This requires understanding the complex evolution of habitable conditions in these underground environments, but such assessment had not been presented until now."

While microbes have been known to eke out a living as deep as 3 miles below Earth's surface, and possibly beyond, very little is known about how the deep biosphere has evolved over geologic history, and how modern microbes are related to their ancient ancestors in the subsurface. Reiners and Drake focused on Precambrian cratons, which are some of the oldest rocks still present today, to find out where and when subsurface microbes should have been active on Earth hundreds of millions to billions of years ago. The results of their

study, published this week in the *Proceedings of the National Academy of Sciences*, reveal that many cratons were uninhabitable for microbes for much of their existence, with the longest period of habitability not much beyond a billion years, and many cratons have only been habitable for the past 50 million to 300 million years.

"We showed that because microbial habitability generally requires temperatures less than about 100 degrees Celsius (212 degrees Fahrenheit), in only a few places do we expect to find evidence of subsurface microbial life older than about a billion years," Reiners said. "Just because these rocks are really old, and the fluids in them may be old, too, doesn't mean that they could've supported life until relatively recently, when they got very close to the surface by erosion."

Precambrian cratons are home to microorganisms that get their energy from consumption of nutrients including sparsely available organic carbon but also from chemical reactions between fluids and rocks. Drake and Reiners estimate that subsurface bacteria and archaea (single-celled prokaryotes similar to bacteria), which now compose up to 90% of all microbial life on Earth, probably composed an even larger fraction of total life hundreds of millions to billions of years ago.

"Their evolution, particularly

the evolution of their metabolisms -- how they get energy and what chemical elements they 'eat' and 'poop' -- provide key insights into the evolution of all other critters," Reiners said, adding that some researchers think that life may have first evolved beneath Earth's surface.

The researchers used a combination of records of deep ancient life found within craton fractures and recent advances in intermediate- and low-temperature thermochronology, a technique that allows scientists to reconstruct the temperature histories of rocks. Rocks may have endured higher temperatures and pressure during periods when sediments accumulated on top of them, only to be brought closer to the surface and into more habitable conditions once those sedimentary layers eroded away.

"By combining thermochronologic results from several different radioisotopic dating systems, we can reconstruct their thermal histories through the ups and downs of burial and erosion over time," Reiners said. "This approach gives us context for prospecting and interpreting the little-explored geologic record of the deep biosphere of Earth's cratons."

By assessing when these rock environments became habitable, and in some cases when they may have been buried and sterilized again, the study provides new insights into the evolutionary aspect of the deep biosphere.

"Cratonic rocks formed billions of years ago, often deep in the crust, at temperatures too high for any life," Reiners said. "It was only much later, following erosion, that the currently exposed rocks reached levels in the crust where temperatures were habitable."

Drake said thermochronology could help identify areas where researchers could look for the oldest records of subsurface microorganisms on Earth.

"Eastern Finland, Greenland and perhaps parts of the Canadian shield look particularly interesting, with habitable conditions spanning back a billion years or even more," he said. "Those cratons are good targets for further studies of deep microbial evolution."

VP Communications Don

Barton recently finished a batch of tumbled rocks; these were a repeat, as was too much bruising on the edges the first time try. He solved the problem by using both ceramic and plastic pellets. Learn how to tumble your own rocks with: **The Ultimate Beginners Guide to Tumbling & Polishing:** <https://rocktumbling.co/beginners-guide/>



FOSSIL HUNTING

Round Mountain Silt at Shark Tooth Hill

By Ted Gray

This is the third of a series of articles on the fossils found in the Round Mountain Silt at Shark Tooth Hill, near Bakersfield.

In previous article, we discussed the features of the two most common shark species found at Shark Tooth Hill. Other than the elusive Megalodon, the *C. hastalis* and *C. planus* teeth are the larger teeth found at the hill. In this article, we look at some of the less common species. In general, we are looking at smaller teeth so many hunters overlook them or discard them. However, it is my position that all fossils are worthy of attention so here we go. Much of the information in this article is derived from the "Miocene Madness" guide published by the Buena Vista Museum in Bakersfield.

The Tiger sharks are known from the one surviving species, *Galeocerdo cuvier*. The tiger is the second largest of the living predatory sharks and can be over 10 ft long. However, the teeth of the Tiger are not very big, rarely attaining a size of 1 inch. The teeth in the upper and lower jaws look pretty much the same.

Two different species of Tigers are found in the Round Mountain silt: *Galeocerdo contortus* and *Galeocerdo aduncus*. They are both abundant with the *G. contortus* being more prevalent and tends to be larger. The *contortus* variety is sometimes known



Figure 1: Tiger Teeth Differences

At first glance, they appear to be the same but the distinguishing feature that sets them apart is the curvature of the blade. The *aduncus* tooth is a continuous curve from the root to the tip whereas the *contortus* variety has a distortion in the curve. *G. contortus* also has a more robust root with a "notch" in the lingual side of the root.



Figure 2: Galeocero contortus, Extinct Tiger

One of the most desirable teeth from Shark Tooth Hill is the Sixgill Shark. The upper teeth of this shark are very distinctive and complete examples are quite rare due to the fragility of the root.



Figure 3: *Hexanchus andersoni*, Sixgill Shark Upper, Lower and Symphyseal

The upper teeth grow as a plate about 1" to 1 1/2" long with as many as 10 individual points. The plate has a large flat root flat making them easily subject to breakage. At the front center of the jaw, the upper teeth merge to form a single plate called a "symphyseal tooth". These are pretty rare everywhere the Sixgill is found and Shark Tooth Hill is no exception.

The lower teeth have a distinctive curvature and root shape making them easy to identify but they are smaller and care is needed to find them. Similar teeth are found in the Miocene deposits on the east coast but those are attributed to a different species.

Another less common and desirable tooth from the Round Mountain silt is the global species *Hemipristis serra* commonly called a Snaggle Tooth or a "Hemi". The Hemi found at the hill range in size from 1/2" to about 1" whereas on the east coast they can be up to 2"!



Figure 4: *Hemipristis serra*, the Snaggletooth Shark (Hemi)

Continued on next page

The upper jaw teeth of this shark, distinctive for the large serrations, differ greatly from teeth of the lower jaw which have no serrations at all. Both upper and lower Hemis vary significantly in size and curvature from the front to the back of the jaw (anterior to posterior). Both the uppers and lowers are uncommon such that we usually find one every day or two of digging.

All of the teeth discussed so far are fairly large, easily seen in a sifting screen. However, there are lots of tiny teeth hiding in the clumps of silt that are not so easy to spot. You need a sharp eye or a 1/8" screen to catch these little guys.

The most common of the tiny teeth found in the Round Mountain Silt is known as the Requiem shark. This is a bit of a misnomer as the term Requiem is an entire family of sharks including over 60 species. These are small teeth, typically less than 1/2". They can regularly fall through a 1/4" screen, so you have to watch closely to find them.



Figure 5: Requiem Sharks: Curved (L) and Straight (R)

Two different species are identified in the Buena Vista Museum guide: *Carcharhinus egertoni*. and *Carcharhinus limbatus*. The distinguishing feature between these two is that one species has a curved blade and the other has a straight blade. The curved one is identified as *C. egertoni* and the straight one as *C. limbatus*. It is not always easy to tell them apart and some of the intermediate variations may be a different species altogether.



Figure 6: Angel Shark and Dogfish Shark Teeth.

The Angel Shark is a common name for members of the *Squatina* genus of bottom feeding sharks. These sharks have a broad flat front to their bodies and lie on the bottom of the sea, awaiting a passing meal. The species *Squatina leichii* is found at Shark Tooth Hill and has a distinctive sharp, pointy little tooth that resemble the thorn of a rose bush.

These teeth are small enough that they will usually pass through a 1/4" screen unnoticed unless it happens to jab you whereas it becomes quite noticeable!

Another fairly common small tooth is an odd looking bit that comes from the Dogfish Shark or *Squalus occidentalis*. These are never more than about 3/8 of an inch in length. They feature a little knob on the enamel above the blade.



Figure 7: Other Small Teeth

Mixed in with the easily identifiable species are a multitude of small teeth that just don't seem to fit any of the descriptions. Undoubtedly, some of these are juveniles of the common *C. hastalis* and *C. planus*, but some are clearly from different sharks. I think you would need an expert to be sure.

Lastly, the most coveted tooth in the Silt is the biggest and baddest, the world famous *Otodus megalodon*!



Figure 8: Posterior *O. megalodon* Tooth (3.5").

For me, this is the most elusive of the teeth in the Round Mountain Silt. In almost ten years of occasional digging, "we" have only found one complete Meg and a handful of fragments. They are there and someday... For now, I must be satisfied with retaining custody of the sole complete *Megalodon* that was plucked from the edge of a bone bed concretion by my son.

So, this concludes the third segment of the series of articles on the Fossils of Shark Tooth Hill. The last installment will address the fossils that are not shark's teeth, most of which are the remains of shark's dinners.

CALL TO ORDER: Meeting was called to order at 7:05 p.m. via Zoom app.

ROLL CALL: Lisa King, President; Laurie Wylie, Senior Director; Caleb Willis, Junior Director; Mary Beatty, Assistant to VP Education; Tina Russell, Treasurer; Don Barton, VP Communications; Jacque Hughes, Secretary; James King, Parliamentarian.

APPROVAL TO ACCEPT BOARD MEETING MINUTES: Laurie W. made a motion to accept the September board meeting minutes. Don B. seconded. Motion unanimously accepted and carried.

PRESIDENT'S REPORT: Lisa K. has been in contact with Wayne Mills and ordered bars/pins for current board members. He asked if we wanted to order a Golden Bear pin to present to a club member. Tina R. made a motion to order a "Golden Bear" pin and award to a senior member. Caleb seconded the motion. The board voted and the motion was unanimously accepted and carried.

TREASURER'S REPORT: The bank and CD account balances were reported. NCI and McDaniel's insurance have been paid. Membership money from September was received, as was a \$20 donation from Amy Phillips from Lapidary Day proceeds.

VP COMMUNICATIONS REPORT: Don B. has updated the email list.

VP MEMBERSHIP REPORT: Kathy Clarke was absent but had reported to Lisa K. that there have been 18 renewals and one new member. Lisa would like to vote on that member at the next meeting since Kathy C. has the application information.

NEW/OLD BUSINESS:
SCHOLARSHIP: Laurie W. questioned the Scholarship issue since no Scholarship was awarded this year and there are potential candidates. Lisa K. stated that at the February budget meeting, it was decided by the board not to fund the scholarship this year. Laurie would like a clarification of the procedures as there is nothing stated in the by-laws. Lisa K. had met previously with Mary Beatty to discuss this issue, as well as reaching out for information from John McCabe and Barbara Bilyeu as to how this had been handled in the past. Basically, the VP of Education would go through the process of contacting the principals of local high schools and given applications for potential applicants. The students would be required to turn in the completed application by April 30th. The VP of Education has the control and decides on the best applicant and then contacts the principal via letter and invites the recipient to attend the general meeting to receive their award. Laurie would like to see procedure specifics drafted into the by-laws. Mary Beatty has already begun to gather pertinent information and Lisa K. said this should be a project for next

year with the new board and the current process can be re-considered and discussed further at that time. It was also noted that the bylaws do not have specific job descriptions for all board member titles and there may need to be revisions there as well.

HONORARY MEMBERSHIP: Laurie W. recommended bestowing this honor to Kim Noyes for all his hard work in keeping the club together since the pandemic. Laurie explained that this is a special award that is given to someone who has gone above and beyond to benefit the club, and have made significant contributions, and as such, they attain free membership in the club for life. Lisa K. said that it was given more to the founding fathers of the club in the past. After discussing at length, Lisa K. would like to revisit Honorary Membership discussion at the next board meeting. She wishes to see a specific list of accomplishments to share with the board members before they vote on the issue. Laurie W. will send a letter to the board members for review.

NOMINATING COMMITTEE: The slate of officers is as follows:
President: Kim Noyes
Senior Director: Stuart Russell
Junior Director: Caleb Willis
VP Education: Mary Beatty
Treasurer: Tina Russell
VP Communications:
Don Barton
VP Membership: Kathy Clarke
Secretary: Jacque Hughes
Past President: Lisa King

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Tina R. stated that Kim N. emailed the slate of officers to club members last year for their votes and the 23 responses that were received was good enough to carry. Only 20% of membership needs to agree to the slate to carry the motion. A letter will be drafted by Tina and Don will send out the email to all club members for their votes. Tina R. made a motion to accept the slate of officers as presented and Caleb W. seconded. Members voted unanimously to accept, and the motion was carried.

INSTALLATION DINNER:

The Officers Installation dinner was not budgeted for this year and after some discussion, Jacque H. made a motion to cancel this year's dinner due to health concerns. Laurie W. seconded and the voted was unanimous and the motion carried.

GENERAL MEETING: The group discussed having a general meeting, but since we are voting via email on the slate of officers, there is no need to meet in person. Tina R. made a motion to cancel the October General Meeting. Laurie W. seconded the motion, the motion was carried with one dissenting vote from Lisa King. Don B. will send out an email to all members regarding cancellation.

NEXT BOARD MEETING:

Monday, November 1, 2021.

MOTION TO ADJOURN: Tina R. made a motion to adjourn and Don B. seconded. Motion unanimously accepted and carried. Meeting adjourned at 8:07 p.m.

The meeting commenced at 7:15 p.m. with the Pledge of Allegiance. Lisa K. led the singing and wishing a very happy birthday and anniversary to members celebrating from the months of August-October.

Lisa K. introduced members manning the various tables. Hospitality, Librarian and Merchandise are still positions that need to be filled for next year. Anyone interested, please contact Lisa.

CFMS/AFMS: Mark N. represented our club at the June AFMS National Convention in Big Piney, Wyoming. Our club placed second in the All-American Club award. We were recognized for keeping our club involved with virtual meetings and field trips during the shutdowns. Also, for our display at the Pioneer Museum year-round. Amy P. was awarded second place as the bulletin editor for the newsletter. The club would like to thank Mark Nelson for all he does for our club as Historian. He presented Award Certificates to both Amy and the Club.

Brag tables: Sam A. explored mines on a Death Valley trip and shared some of his impressive finds and Caleb W. shared some botryoidal jade and a ruby specimen. Kim N. shared a polished, cubed block of whale bone.

PROGRAM: Tonight, members shared their favorite tools, including items such as a treasure scoop, a Pinpointer/metal detector, an old paint brush to help expose and remove artifacts, a four-piece needle nose pliers set (of varying sizes) for making wire wrapped jewelry, a Diamond Pacific 8-wheel grinder/polisher, and using a Camelbak or a hydration vest for the dual purpose of drink-

ing and washing the dirt off rocks.

NOMINATING COMMITTEE:

Tina C. offered to be the third person on the nominating committee if someone would nominate her. Galen M. made a motion to nominate her, and Barbara B. seconded the motion, which was carried unanimously. Tina C. read the slate of officers proposed by the nominating committee and a formal call was made for more nominations, of which there was none. Galen M. moved to accept the slate as presented. Barbara B. seconded the motion, which carried unanimously. The slate will be published in the November newsletter and be voted on at the November General Meeting. Tina C. also thanked Tina R. and Kathy C. for all their hard work on the committee to develop the slate of officers. Lisa K. noted that the current by-laws have two-year term limits and the majority of the nominated officers have already served the full term by the end of this year. James K. made a motion to extend the current term limits for another year. Wayne M. seconded the motion, which carried unanimously.

A Highland Park saw/grinder/polisher has been donated to our club. It is for sale for \$300.00 or best offer to any club member interested. All proceeds will benefit our club. Please contact Gene B. or Lisa K. This lapidary equipment will also be listed in our newsletter.

James K. made a motion to adjourn, with Galen M. seconding. The vote was unanimous, and the meeting was adjourned at 8:10 pm for refreshments, more show and tell, the drawing, silent auction and socializing.



P.O. Box 1672
Paso Robles, CA 93447

TOPAZ FUN FACTS

Topaz is believed to have been named after a small island in the Red Sea named 'Topazos' where golden stones were found. What's interesting is that the gemstones discovered were not topaz, but peridot! There's another theory surrounding the origin of this vibrant gemstone's name. Many believe 'topaz' was derived from the Sanskrit word 'tapas' which means fire. Learn more at: <https://www.angara.com/blog/10-amazing-topaz-facts-that-will-blow-your-mind/>