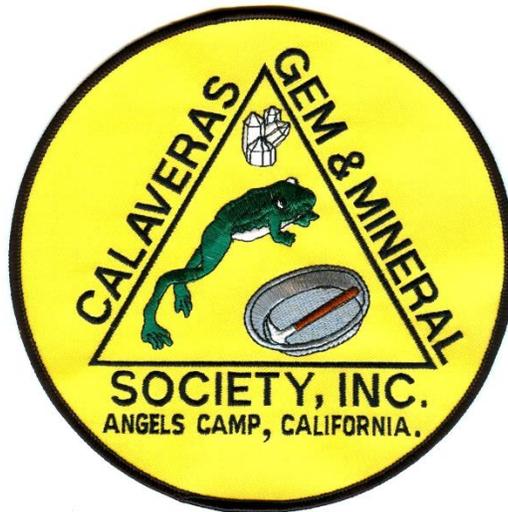


The Golden Frog



AUGUST 2019 EDITION

**Robin Williams, Editor
P.O. Box 1135
Murphys, CA 95247**



August Birthstone ~ Peridot
Pendant with Amethyst

Calaveras Gem & Mineral Society, Inc.
 P.O. Box 517
 Angels Camp, CA 95222

Clubhouse: 2500 Meacham Ranch Road

Website: www.calaverasgemandmineral.org

Est. in 1948 and incorporated in 1950 as a non-profit charitable organization dedicated to share our love of rocks & minerals and all the lapidary arts with our community. Member of both the California and American Federation Mineralogical Societies.

The Many Shades of PERIDOT



AUGUST BIRTHSTONE

2019 BOARD of DIRECTORS



PRESIDENT
 Anna Christiansen
achristiansen7132@comcast.net



VICE PRESIDENT
 Lynn Becker
beckerbk@sbcglobal.net



SECRETARY
 Debby Brooks
dbb49@att.net



TREASURER
 Karen Crabtree
kcetc@volcano.net



FEDERATION DIRECTOR
 Marion Roberts
mvroberts1@comcast.net



FIELD TRIP CHAIRMAN
 Brad Becker
beckerbk@sbcglobal.net



GEMSHOW CHAIRMAN & NEWLETTER EDITOR
 Robin Williams
robinski@yahoo.com



1st DIRECTOR
 Bob Young
ryoung1738@aol.com



2nd DIRECTOR
 Amy Sturdivant
amy95247@yahoo.com



3rd DIRECTOR
 Pat Gulyas
golddustmurphy@yahoo.com



ADDITIONAL CLUB POSITIONS:



SHOPmasters
 Murray Smith & Marilyn Bodle
marilyndte@gmail.com



PROGRAMS
 Tom Harrington
thomasharrington266@gmail.com



WEBmaster
 Andrew Brown
brown.andrewg@gmail.com



HISTORIAN
 Loretta Pagni
lorettapagni@aol.com



**A Message from
Our President...**

I was so happy to see so many members at our July meeting. The air-conditioning sure has been a blessing and I know more people are willing to come out to the clubhouse in the summer since it has been installed.

Thank you once again to Joan Saiz for the beautiful display case that she shared with us at the July meeting.

The Board is working on getting some items for the shop that will let us polish a face* on rocks to sell at our Gem Shows. (* It always helps when a person can see rocks that have been polished on one side so that they can see the inside.)

Hoping to see you at our August meeting,

Anna Christiansen
2019 CGMS President

BRILLIANT JADE COLLECTION



Thank you, Joan and Dino Saiz - for sharing Joan's beautiful jade collection in the Display Case at our July meeting. Extraordinary pieces! Wow.

AUG ~ TABLE of CONTENTS

| Pg | ~ DESCRIPTION ~ |
|----|--|
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AUGUST 18, 2019 ~ MEETING INFO

- 3rd Sunday, August 18th, 2019.
- Meet & Greet begins at 11:00 am.
- POT LUCK Lunch begins at Noon.
- General membership Meeting
- Board Meeting TBA

**PLACE your VOTE for
ROCK
HOUND
(Volunteer) of the YEAR**

~ Criteria for the Award ~

As members of our ALL-VOLUNTEER organization, every task a member chooses to perform for the CGMS is done as "A Team Volunteer"; and, EVERY TASK COMPLETED – whether small or large - helps to keep the club healthy and enables it to continue.

But sometimes, some member(s) just have the desire *-along with the time & ability-* to go the extra mile. This award provides each of us a way to saying "thanks"... "Thanks for choosing to help keep our club alive and viable for another week, month, year ...adding to our proud 70 years of continued community presence as THE CGMS".

Your choice can be a long-time member or a recent, new member. It should reflect your appreciation for them making our club a place you want to go to and enjoy attending.

Place your nominee (for single member or husband and wife) on the form provided at the BALLOT BOX (now at the clubhouse) for the member(s) you feel has gone the extra mile in 2019.

One vote per member please! We'll announce the winner(s) at our December Christmas Party Club Meeting.

GENERAL MEETING MINUTES from July 21st, 2019

**Calaveras Gem and Mineral Society
General Meeting Minutes
July 21, 2019**

**Meeting Called to Order at 1:17 a.m.
by President Anna Christiansen**

Pledge of Allegiance

Board of Directors Absent:

Federation Director: Marion Roberts

Members Present: 40 Guests: 4

Minutes from June 16, 2019

Romy Mueller made a motion to accept the minutes from June 16, 2019 as presented. Jerold Kyle seconded the motion. Minutes approved by majority.

Club Correspondence: None reported

Treasurer's Report Karen Crabtree

The financial report will be posted at the clubhouse for review by club members.

Karen and Lynn Becker have met 3 times to enter all checks and debits into the laptop through 12/31/2018 and deposits have been entered through 9/30/2018. Karen has created a list of financial deadlines.

Brad Becker made a motion to accept the Treasurer's Report as presented. Tom Reeves seconded the motion. The Treasurer's Report was approved by majority consent.

COMMITTEE REPORTS

Newsletter Editor Robin Williams

Robin is requesting stories/information from all club members, pictures of activities, projects, trips, rock hunting, and fun times to share with other club members.

There is an additional \$10.00 charge to receive the newsletter by snail mail.

Field Trips Report – Brad Becker

| | |
|-----------|---|
| JULY 28 | Eagle Meadows on Sonora Pass for Petrified Wood, Jasper and Agate |
| AUG 3 | Gold Panning Mokelumne River or Moccasin Creek |
| SEP 28-29 | Fallon, Nevada |

Brad will email club members with details of each trip. Make sure your email address is correct to receive the Field Trip announcements/information.

Historian Loretta Pagni

Because of our new air condition, 2019 was the first time in the history of the Club that there was a July (& August) meeting. ● We'll use the meeting time to prepare for the 2020 Gem Show. Please attend! We need all the helpers we can get. ● Thanks to the Faceter's Guild for their generous donation when they disbanded. ● Dick Roberts donated a large piece of Jasper to the club. Dick was a long-time member of the club.

Shop/Classes Marilyn Bodle

Vance Johnson has been assisting (THANK YOU!) with shop duties. While repairing a saw he discovered a mud dauber nest in the switch! The switch is now repaired.

Show Chairman Report Robin Williams

After today's meeting the Show Display Case Tables will be measured to make customized table cloths. Joan Sutton has offered to cut the cloth and Sandy Ostrander has volunteered to sew the table cloths. We need more cutters and sewers. 160 yards of cloth will get processed. A time and date will be announced for a table cloth making party.

Federation Report - None

Minutes are continued on the next page...

Continued...GENERAL MEETING MINUTES from July 21st, 2019

Cont. from previous page...

NEW BUSINESS

Introduction of New Members:

- Deborah and John Randell
- Cheryl Roberts
- Joseph, Maria, Alex, and Edward Horat

WELCOME to our CLUB FAMILY!

Camp Paradise: Pat Gulyas

Pat will be teaching the creation of Ming Trees at Camp Paradise. Teachers are required to bring their own supplies. She has been gathering supplies with the help of club members and wanted to offer a special thank you to Robin Williams, Sandy Kilcrease, and Phyllis Kyle for their generous donations of needed supplies. Thank You Pat, for representing our Club.

Rock Hound of the Year: Anna Christiansen

CGMS will be awarding a CGMS member the honor of Rock Hound of the Year – 2019. The award represents the club member's service to the club. The Board of Directors decided the process of choosing the Rock Hound.



A ballot box will be located at the front of the club house and ballots will be available at the club house for members to vote. This award is recognized by the CFMS (California Federation Mineralogical Societies). The awardee will receive a pin and recognition from the CFMS. (See page 3 for details)



Camp Paradise Campership for 2020:

CGMS is planning to sponsor a club member to attend a week at 2020 Camp Paradise. (See details on page 7.)

Classes: Robin Williams

Educational classes will be routinely offered the second Saturday of each month. The project will be announced by email to all members. Please bring your ideas for classes or offering to teach a class.



Tom and Sue Reeves are working on the kilns for the creation of dichroic glass.

A Display Case Volunteer is needed for the August 18, 2019 meeting.

Meeting Adjourned at 1:58 p.m. by President Anna Christiansen

Next Scheduled Meeting:
August 18, 2019

Minutes Respectfully Submitted,

Debby Brooks
CGMS Secretary

Little bit of this...Little bit of that...

AUCTION



**10-inch Refurbished
HIGHLAND PARK TRIM SAW**
Excellent deal! Worth \$1000 new!
Bidding starts at \$300.

LOST HEARTS

Cut from these mineral slabs.



Did someone maybe find three hearts in the rough-cut stage sitting all alone just outside or in the club house in the last couple of weeks?

I cut them, then set them down to go back inside to lock up at the end of the day Sat, June 29th and now I can't find them. I hope somebody found them and just put them in a "safe" place.

Thanks for any information as they are meant for someone.

Marilyn Bodle 209-770-4541

FIELD TRIPS



Check your email for dates and details.

Brad Becker: (209) 352-6205

| | |
|-----------|---|
| JULY 28 | Eagle Meadows on Sonora Pass for Petrified Wood, Jasper and Agate |
| AUG 3 | Gold Panning Mokelumne River or Moccasin Creek |
| SEP 28-29 | Fallon, Nevada |



FIELD TRIP ~ July 28th EAGLE MEADOWS

The Information Email for this field trip has been sent to club members. Contact Brad if you are planning to go: (209) 352-6205
Hope to see you there! -Brad Becker

OPPORTUNITIES for MEMBERS

WANTED!

A Team of members to
CUT FABRIC & SEW
 13 Custom Table Covers.

Starting August 5th we need a team of volunteers to help **CUT** 160 yards of fabric and then **SEW** up **13** custom table covers for the Gem Show.

PLEASE - Contact Robin to volunteer:
 Email is best: robinski@yahoo.com
 My lousy answer machine: 209-728-8277

ATTENTION!

CGMS is OFFERING a
SPONSORSHIP
 For 2020 CAMP PARADISE



All CGMS members are eligible to apply for the one-week paid tuition to 2020 Camp Paradise. Just submit your letter explaining "Why you should be the member selected for the 2020 Camp Paradise sponsorship".

Mail your letter to:

Anna Christiansen,
 CGMS President
 P.O. Box 517
 Angels Camp, CA 95222

The selected member will be announced at the 2019 December Christmas Meeting. (Please note: The selected member will be responsible for their transportation and any additional class fees and/or expenses.)

It Takes a Whole Club!

FACT: We have lost over 20 of our previous large-task-handling volunteer members!

Last year, the remaining "set-up & venue-manning crew" (that works from Thursday morning to Sunday night) found it very difficult to absorb the un-manned positions and physically exhausting to get the job done. Inadequate training of "hourly" volunteers added to the situation.

So, last April, it was decided that we would have monthly Gem Show meetings to train and mentor new volunteers for the vacant positions. Our 1st meeting is on...

August 18th

~ 2020 GEM SHOW ~ **VOLUNTEER** **PREPARATION MEETING**

All hands on deck...our Gem Show is our #1 Fundraising Event each year!

We need Club members to volunteer to be **VENUE CHAIRPERSONS*** and to commit to: plan, purchase, organize, oversee, set-up, operate venue & properly pack-up at the end in these categories...

1. ADVERTISING
2. SIGNS & BANNERS
3. SET-UP CREW & WIRING
4. ROCK TRANSPORT & LIFTING
5. TABLE SKIRTING
6. ADMISSIONS DESK
7. RAFFLE BOOTH
8. DOOR PRIZES
9. DISPLAY CASES
10. ROCK SALES & ROCK AUCTIONS
11. DEMONSTRATORS BOOTH
12. FOOD CONCESSION STAND
13. HOSPITALITY ROOM & CART
14. SECURITY
15. GOLF CARTS
16. CUSTODIAN
17. WELCOME DINNER FRIDAY NIGHT
18. TAKE-DOWN & PACK-UP

* If you have already committed to a venue please attend anyway. We need you there!

The Gemstone PERIDOT

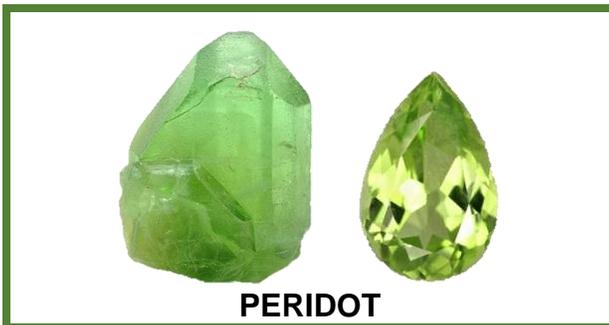


Peridot crystals in volcanic lava.



...is the gem variety of the mineral OLIVINE found in basaltic lavas and some deep-buried igneous rocks.

The amount of iron determines the shade of green and the most valued is deep golden-green. (Too much iron produces a brownish tinge.)



PERIDOT

The tiny Egyptian island of Zabargad (Arabic for peridot) in the Red Sea was the ancient source of gem Peridot used in jewelry since Roman times.

Today, new discoveries of Peridot have reawakened interest in this gemstone - with large, nearly flawless crystals (esp. Pakistan); however, the San Carlos Reservation of Arizona remains the most significant producer of gem Peridot.



The largest cut peridot gemstone is a 310 carat (62g) (17.74 x 12.44 deep) specimen in the Smithsonian Museum in Washington, D.C.



Marilyn's finished Kumihimo project. Gorgeous!

AUGUST 10th CLASS INFO

July class attendees requested a project change ("squeaky wheels get the grease") so we have switched our August Class to

WIRE-WRAPPING.

We'll need teachers to help with the BEGINNERS & INTERMEDIATES,

and Margaret has agreed to assist those adventurous souls who wanted to tackle high-domed cabs. Bring your tools and 22 ga square and half-round wire plus your cab - Margaret has copper wire to purchase if you need it - plus your \$2 Clubhouse Use Fee.

At this time, we are just planning projects on a month-to-month basis depending on who is in attendance or who wants to teach a favorite project. Lots of cooks but no chef.

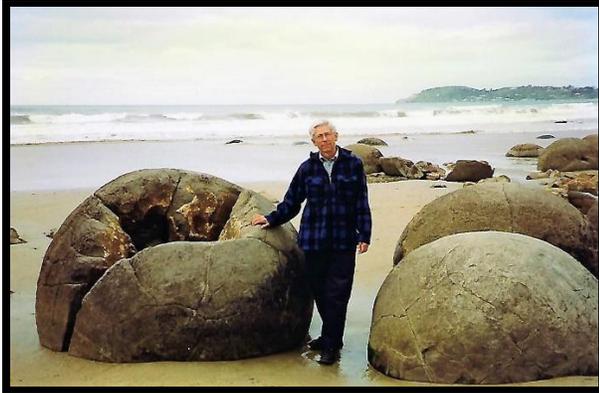
Anybody out there want to be the **CLASS HEAD HONCHO?**
big cheese? whole enchilada?
big kahuna? grand poobah?
numero uno? top banana?

Your job would be to find out what people want to learn, find the person(s) willing to teach, compiling a materials and supplies list, mass ordering or make kits (when appropriate), advertising, reminding, setting up, collecting the monies and closing up.

Anybody interested? Contact Anna at: achristiansen7132@comcast.net - Come to class - it's a lot of fun and you learn a lot!

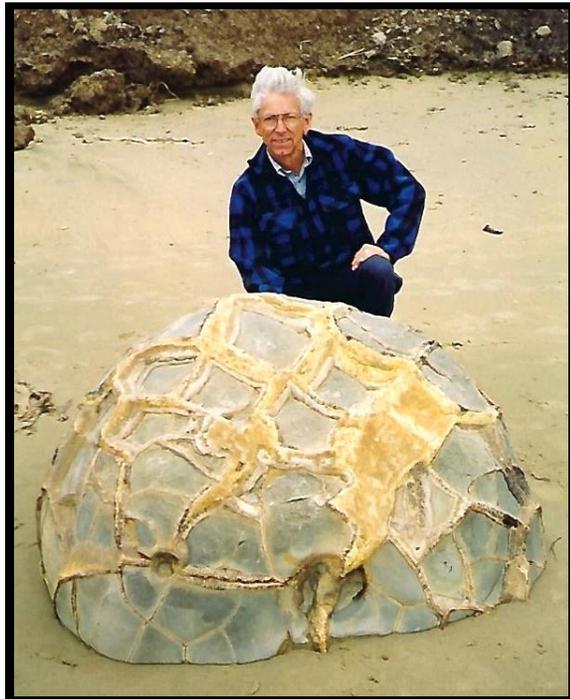
Moeraki Boulders of New Zealand

Submitted by Harold Mueller



The June issue of the Golden Frog displayed photos of Bowling Ball Beach in Northern California. The South Island of New Zealand also has their version. They are called Moeraki Boulders.

The core is carbonate of lime surrounded by layers of silica, alumina, and peroxide of iron. They weigh several tons and were formed on the sea floor 60 million years ago.



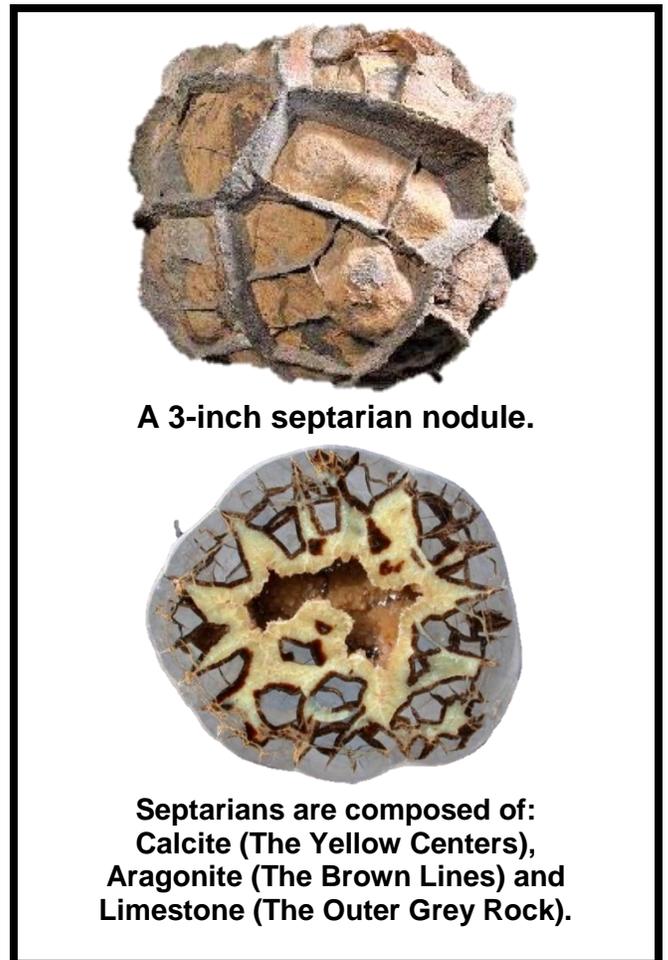
Harold with a partially buried Moeraki Boulder in New Zealand.

South Island tradition and Maori legend tell of the Araiteuru, one of the large sailing canoes from Hawaiki** that landed there and spilled “kumeras” (sweet potatoes) on the beach.

When the spherical boulders are broken, the inside show red and yellow – just like a kumara. They look very similar to what we rock hounds call Septarian nodules.



**Hawaiki, is the legendary homeland of the Maori peoples of Aotearoa / New Zealand, speculated to lie somewhere in the Pacific (Polynesia) from whence they migrated about 1,000 years ago.



A 3-inch septarian nodule.

Septarians are composed of:
Calcite (The Yellow Centers),
Aragonite (The Brown Lines) and
Limestone (The Outer Grey Rock).

SINTER. AND NOW YOU KNOW.

THIS REPORT IS ALL HAROLD'S FAULT! While picking up Harold's report on Moeraki Boulders we got to looking at cool specimens from his collection and he brought out a piece of sinter. Sinter. It looked like a gray popcorn ball made of tiny popped corn. Cool. I said I'd include a photo of it with his Moeraki article.

On the drive home from Modesto all I could think about was "What in the world is sinter?!" I had no clue...until Google...



Turns out, sinter rock is everywhere!

We know it as tufa, travertine, and geyserite (to name just a few in the geologic world). Cave formations can also be considered as a sinter material.

Thar's GOLD near that there SINTER!

Hot Springs can produce epithermal lode deposits in economic concentrations of gold, silver and in some cases base metals such as copper, lead and zinc.

A great example is the hot-springs related gold-silver deposits in the volcanic rocks at Round Mountain Mine in Nevada.

Here's the least technical explanation of the two types of SINTER rocks that I found on Google. (Believe me, there was much worse!)

SINTER: is a mineral deposit having cavities (porous or vesicular). It can form from the precipitation of minerals - either hot (hot springs) or cold (cave formations).

At least two kinds are recognized:

1. Siliceous sinter = Geyserite & Fiorite
A deposit of silica incrustation around hot springs and geysers that sometimes forms conical mounds (geyser cones) or terraces. The deposition of siliceous sinter is largely due to the action of algae and other forms of

vegetation in the thermal waters. Near fumaroles and in the deeper channels of hot springs, it may be formed by alteration of the rocks forming the walls.



Champagne Pool, New Zealand

2. Calcareous sinter =

Tufa & Travertine

Formed in "petrifying" calcareous waters that deposit a sintery incrustation on exposed objects. The cavities in calcareous sinter are partly due to the decay of mosses and other vegetable structures that have assisted in its precipitation.



Tufa in Mono Lake, California

The Act of Sintering is to take loose materials and through pressure and heat – but never to their melting point – compacting them into a solid piece. Even ice cubes can "sinter" in your ice tea!

We use sintering in ceramics, the making of metallic powders, and the making of cement (clinker is a sintered material). The catch is that once it's sintered it can't be un-sintered...just like you can't undo a cake once it's been made.

MINUTES of July 21st BOARD of DIRECTORS MEETING

Calaveras Gem and Mineral Society
Board Meeting: July 21, 2019

Meeting called to Order
by President Anna Christiansen at 10:20 a.m.

Board Members Absent:
Federation Director – Marion Roberts

Treasury Report: Karen Crabtree
Tax Update: H&R Block called the IRS as a response to the IRS letter regarding the 2017 tax year. The H&R Block representative was told by the IRS it can take 60-90 days for the IRS to notify CGMS the final result and there is a collection hold for 9 weeks. A letter from the IRS should arrive in mid-August will the final decree for the 2017 tax year.

Lynn Becker and Karen Crabtree have met three times to load all the debits for 2018 and the deposits are loaded up to September 2018.

Memorial Bench for Dan Brooks
A plaque will be ordered and attached to the bench.

Storage Shed:
Consensus is that the storage shed doesn't need to be replaced. A crew will disassemble and recycle the metal. Work date to be announced.

Big Saw Cover: Bob Young
Bob reports the cost to replace the Big Saw Cover, is \$500.00. Bob will order this important saw part.

Other Shop/Machinery Needs: Shop "Staff"
Having issues with Large Rock Saw binding while cutting large rocks - Reported that this issue has been ongoing and is being worked on to resolve.

A Rock Sander to polish the large rocks that the club sells at the Gem Show needs to be ordered. Brad Becker and Bob Young will research and have Board approval to purchase.

As a reminder: There is always a shop steward available to help with any saw usage. Only members that have been trained and verified by the steward may operate the large rock cutting saw.

Kiln Maintenance Tom Reeves
Tom reported that he took the large kiln home to assess if the kiln is working and safe to use. He will report back to the Board if he needs to purchase parts and how much the repairs will cost.

201 Audit
The audit will be scheduled after the 2018 books are loaded into the club laptop.

Rock Hound of the Year - "RHOTY": Anna C.
Anna reports that other clubs choose a Rock Hound of the Year; the award is sponsored by the CFMS. Anna will be the liaison with CFMS regarding correct paperwork and notification. The Board discussed the selection process awarding the RHOTY. There is a proposal to create a ballot so club members can choose who to give the award to. More discussion on the selection process at the next board meeting. Target date is DEC 2019 for RHOTY selection. (Selection details are on page 3.)

The 2020 Gem Show - Robin Williams
The First 2020 Gem Show Committee planning meeting will be: August 18th after the monthly CGMS meeting. All members are encouraged to attend and encouraged to volunteer to be a part of our annual Gem and Jewelry Show. (See page 7.)

Camp Paradise Sponsorship: Anna Christiansen
A decision was made to reinstate the tradition of providing a Week Sponsorship for a club member to attend the 2020 session of Camp Paradise with the understanding the club member will return and give a report of what they learned at Camp Paradise and offer an educational opportunity to club members. Details for applicants are on page 7.

Club Printer: Karen Crabtree
Karen reports the printer/copier is not working, it needs to be replaced. Lynn will research new printer and toner cartridges and report back to Board with her findings at the August meeting.

Classes: Robin Williams
The cost of supplies for the Kumihimo classes has been recovered. Lynn is requesting that she be notified 2 weeks prior to all classes so she can email club members with the details of the class being offered.

No further topics to be discussed and reviewed.
Meeting adjourned at 11:09 a.m. by President Anna Christiansen.

Next Board Meeting: August 18, 2019

Minutes respectfully submitted,

Debby Brooks, Secretary
Calaveras Gem and Mineral Society



Peridot Bracelet

AUGUST CALENDAR of EVENTS

| SUN | MON | TUES | WED | THURS | FRI | SAT |
|-----|------------------|------|---------------|-------|-------------|--|
| | | | | 1 | 2 Pat G. | 3 SHOP 10-2 |
| 4 | 5 Carolyn M. | 6 | 7 Mark T. | 8 | 9 | SHOP 10 & CLASS 10-2 B-day Lynn B. |
| 11 | 12 Mitchell M | 13 | 14 Rich R. | 15 | 16 | SHOP 17 10-2 B-days Tom R. Kate Y. |

And don't forget...WE are having SUMMER Club Meetings this year...

Next one is on August 18th

PLUS, make plans to attend the first monthly 2020 GEM SHOW PREPARATION COMMITTEE MEETING held on Sunday August 18th after short Club Meeting

| | | | | | | |
|--|----|----|----|----|----|--------------------|
| 18 MEETING & Gem Show Planning | 19 | 20 | 21 | 22 | 23 | 24 SHOP 10-2 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 SHOP 10-2 |



August Birthstone

SUMMER EVENTS

| | |
|----------------------|----|
| Pat Gulyas | 2 |
| Carolyn McCrea | 5 |
| Mark Turpin | 7 |
| Lynn Becker | 10 |
| Mitchell Mihonyanagi | 12 |
| Rich Roesner | 14 |
| Tom Reeves | 17 |
| Kate Young | 17 |



Peridot & Diamond earrings

Check out all the Farmer's Markets available this summer.

Go to mymotherlode.com and get all the SUMMER Events