



The CULVER CITY ROCK & MINERAL CLUB, located in Culver City, California, brings together persons interested in the earth sciences to engage in research and study, to assist members in the collection and preservation of rocks and minerals and in the study of lapidary and related arts.

## November Virtual & In-Person Program: Gems and Technology

Join us on **Monday, November 8 @ 7:30 pm** in person at the Culver City Veterans Memorial Auditorium Multi-Purpose Room or in our Zoom Room with Dr. George Rossman, Professor of Mineralogy at California Institute of Technology (Caltech) as he presents Gems and Technology.

Congratulations to Professor Rossman, 2021 Roebling Medal recipient, the highest recognition given by the Mineralogical Society of America. You can learn more about the award [here](#).

For as long as recorded history, the gem minerals have been valued as objects of great beauty. Because of their great value, they have also been objects of research with the objective of improving their color. Many technologies dating back to ancient times have been applied to the modification of the color of the gemstones. Such technologies may involve nothing more than simple exposure to light and heat. Modern, high-tech methods are also used to modify gemstones that range from highly controlled oxidation/reduction reactions to the methods of nuclear physics.

Professor Rossman has studied these technologies and the underlying changes to the chemistry of the minerals with a range of spectroscopic and analytical methods. He will present a colorfully illustrated look at the gems as they come out of the ground, the treatments to which they are subjected, and a bit about what we know about the fundamental changes to mineral's chemistry. Is any stone immune to such treatment?

Come and hear what the wizards of chemistry can do to some of nature's most beautiful objects with technology both modern and traditional.



Blue Beryl



Golden Beryl



Irradiated Tourmaline

Submitted by  
**Ken Rogers**  
Programs Chair

If attending in-person:

- Masks are Required (regardless of vaccination status)
- CCRMC member badge must be worn, if you have received it



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## Upcoming Activities

November 6 – Fall Parking Lot Sale

November 8 – Executive Meeting, General Meeting  
& November Program

November 25 – Happy Thanksgiving

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### How to navigate the Nugget

- All URLs in blue are clickable. Clicking on it will redirect you to the website being referenced.
- All emails in blue are clickable. Clicking on the link will open your email application where you'll be able to send an email directly.
- All social media buttons are clickable. Clicking on it will take you directly to our Club's social page.

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## Executive and General Meetings Announcement

CCRMC members meet on the 2<sup>nd</sup> Monday of every month.

The Executive meeting will begin at **7:00 PM**

The General meeting will begin at **7:30 PM**

The Monthly program will begin after the General meeting concludes

Please join us in-person if you feel comfortable doing so. As required by the Culver City Veterans Memorial Auditorium, **ALL visitors must wear a face mask at all times.** Please also wear your CCRMC member badge.

The same Zoom Room is used for both meetings by clicking here:

<https://zoom.us/j/3108364611?pwd=WnRTclZTS3RJMEdWdlV2c01mQWxqdz09>

Meeting ID: 310 836 4611

Password: rocks

Guests are always welcomed to join us.



a message from the

## PRESIDENT

Many thanks to Alexa Hunter and Karen Wallen for putting together a slate of prospective officers for our elections this month. Your attendance and vote will be

appreciated at our meeting on the 8th. And thanks to those members who have stepped up to help by making a commitment for next year. Healthy and active clubs exist because of the efforts, dedication and imagination of their members.

We've dealt with a lot of stuff over the last year and a half, but life seems to be opening up a bit as we head into fall. There's two opportunities this month to enjoy being a rockhound again. The first is our Shop Yard Sale on Nov 6<sup>th</sup> that's quickly becoming a welcome tradition for me. And this month we have some neat items including a faceting machine complete with all accessories, supplies, and tutorial materials. Hope to see you there.

Also early in the month is the annual California Federation meeting where all the rock clubs get together for a couple days. We are looking for someone who'd be interested in attending the session for the Club. The meeting is Nov 12-14 at the Wyndham Hotel in Visalia. We will pay for your transportation, hotel room and the banquet dinner. I've done it a couple times and really enjoyed it. If you're up for a nice road trip, maybe with a friend, this could be a good deal for you and the Club. Please get in touch for details.

Happy hammering,  
**Brad Smith**  
President

# October Program Report: The Inner Beauty of Caves

Mary Pat Weber, geologist, gave a lecture about the inner beauty of caves.

Only about 5-10 percent of caves in the world are show caves; most caves are not open to the public.

There are several types of caves, such as sea caves, lake caves, lava caves, glacier caves, ice caves, talus caves, fracture caves, eolian caves, erosional caves, anchialine caves, gypsum caves, salt caves.

Lava cave is considered a primary cave because it forms at the same time as its surroundings. As lava flows, the floor starts to sink, and walls start to cool and harden until they form a lava tube. When lava continues to flow out of the tube, a cave is formed. The hot lava at the bottom emanates gases, melting the ceiling and forming stalactites.

Glacier caves form at the base of glaciers. Snow melts at the base, forming tunnels. The floor is bedrock. Stalactites can form in these caves. Glacier caves are often mistaken by ice caves; however, a cave must have ice all year around for it to be an ice cave.

Talus caves are formed when boulders fall between crevasses, forming a ceiling. Fracture caves are formed when softer material like gypsum collapses between harder rocks. Erosional caves can form in any rock, through water action; erosion occurs by abrasion due to rocks being dragged with the water. Eolian caves are created by abrasion with sand and slit particles blown in the wind.

Anchialine caves are named after the greek word for "near the sea". They are near the ocean and have a connection with it at the bottom. They can be volcanic or limestone. These caves are present at the Yucatan peninsula, where they are known as cenotes.

Limestone caves are the most abundant and the largest, while gypsum caves are the second most

common type of cave. They are similar to limestone caves in shape, size and passages, but very fragile.

Salt caves are formed when rain and water penetrate the rock. They are very volatile, with two-foot long stalactites forming in the space of a month. These caves can be unstable and are unsafe in rainy areas.

Solution caves form on top of the earth. Water or snow percolates the soil; the carbonic acid in the ground water dissolves the limestone and continues to enlarge cavities until they turn into cave rooms. Hypogenic caves, on the other hand, form from below the ground, with water migrating upwards, forming cavities.

After a cave forms, various types of formations take shape. There are over thirty types of formation. A few of them are stalactites, stalagmites, soda straws, draperies, columns, popcorn.

California offers several caves to visit, such as those in the Channel Islands, Sequoia N.P., and Lake Shasta. Some of the largest show caves in the country are: Lehman Caves in Nevada, Jewel Cave N.M. and Wind Cave N.P in South Dakota, Carlsbad Caverns N.P. and Lechuguilla Cave in New Mexico.

*Submitted by*  
**Ana M. Strambi Guimaraes**  
Recording Secretary



*continued on next page*



# October Program Report: The Inner Beauty of Caves *con't*



Drapery formation at Lake Shasta Cave



Boxwork formation at Wind Cave



Large column formations at Carlsbad Cave



Flowstone from Lake Shasta Cave



Dogtooth Spar at Jewel Cave



Popcorn at Jewel Cave

# Announcing:

## The 2022 Slate of Officers & Committee Chairs

Elections for the 2022 Slate of Officers, Committee Chairs, and Board of Directors will be held during the November 8 general meeting. The meeting will be held in-person and in our Zoom room.

Members must be present at the general meeting in order to exercise their rights to vote. There will be no proxy or absentee voting.

Installations of elected Officers and appointed Committee Chairs will take place during the December meeting.

Members will have the opportunity to challenge or nominate themselves for a position during meeting.

The Nominations Chair presents the following slate for the 2022 election.

### 2021 ELECTED OFFICER CANDIDATES

President – Brad Smith  
Vice President – **VACANT**  
Treasurer – Darrell Robb  
Recording Secretary – Ana Maria Strambi Guimaraes  
Corresponding Secretary – [Véronique Gautherot \(pending confirmation\)](#)  
Parliamentarian – Jon P. Gowling

### 2021 APPOINTED COMMITTEE CHAIRS

Education – Alexa Hunter & Karen Wallen  
Federation Director – Lorna Herf  
Field Trips – [Devon Lloyd \(pending confirmation\)](#)  
Historian – [Virginia Hollis \(pending confirmation\)](#)  
Librarian – **VACANT**  
Membership – Jette Sorensen  
Membership Co-Chair – [Stephanie Dangott \(pending confirmation\)](#)  
Minerals – [Devon Lloyd \(pending confirmation\)](#)  
Photography – [Pam Leitner \(pending confirmation\)](#)

Programs – [Ken Rogers \(pending confirmation\)](#)  
Publications – Janet Gampe  
Publicity – [Janice Metz \(pending confirmation\)](#)  
Shop Committee – President, Vice President & Shop Instructors  
Show – [Adrienne Louie \(pending confirmation\)](#)  
Social – **VACANT**  
Sunshine – **VACANT**  
Trading Post – [Gary Mitchell \(pending confirmation\)](#)  
Webmaster – [Jette Sorensen \(pending confirmation\)](#)  
Workshops – [Janice Metz \(pending confirmation\)](#)  
Zoom Host – [Darren Cokin \(pending confirmation\)](#)

### 2022 Board of Directors

Virginia Hollis  
Janet Louie

### 2023 Board of Directors

Adrienne Louie  
Jette Sorensen

### 2024 Board of Directors

Gary Mitchell  
Karen Wallen

**NOTE:** At the time of publication for this issue of the *Nugget*, some committee positions may have been confirmed and not updated.

*Submitted by*  
**Alexa Hunter**  
Nominating Chair



# Executive Meeting Minutes

October 10, 2021

Those present: Darren Cokin, Stephanie Dangott, Steve Dover, Pam Leitner, Darrell Robb, Ken Rogers, Brad Smith, Jette Sorensen, Ana M. Strambi Guimaraes, Christine Thompson, Karen Wallen.

The meeting was called to order by President Brad Smith at 7:00PM.

The following was discussed:

-Brad informed Jette Sorensen would not be able to perform her email communications and webmaster duties and a temporary replacement was needed.

-Brad said that a decision as to whether the Club would hold a show in 2022 would have to be made soon after Thanksgiving, in order to start publicity. A discussion followed as to whether the Club would have sufficient manpower to run the show and whether attendance would be significant. Steve Dover expressed concern about not doing a show for the third year in a row, as the show was the best way for the Club to attract new members. Brad asked Ken Rogers to try to find out whether attendance has been positive in current shows.

-Brad indicated it would be good to have a holiday party this year, but advised against the Club running it as usual because it was unlikely that sufficient members would volunteer to help and the usual venue may not be available. Darrell Robb suggested to hire a banquet room at a restaurant. Ken proposed to have the party at a park, but some expressed concern that it might be cold.

-Brad asked for a volunteer to represent the Club at the CFMS annual business meeting in Visalia, CA.

-Ken informed half of the spots were still available for the yard sale. He said the Club was donated a Facetron that it could sell at an online auction simultaneously with the yard sale. Darren Colkin asked if the machine could be installed at the shop, but Brad said it was a very sophisticated equipment that require skill to operate, which could pose risk of injury to users and risk of damage to the equipment.

-Jette reported the Club had 118 members.

-The September meeting minutes were approved as published in the October edition of The Nugget.

The meeting adjourned at 7:32PM.

# General Meeting Minutes

October 10, 2021

The meeting called to order by President Brad Smith at 7:32PM.

-Brad asked for a volunteer to represent the Club at the CFMS annual business meeting in Visalia, CA.

-Brad inquired about the 2022 slate nominations, but Karen Wallen did not have the results, as they were with Alexa Hunter.

-Darrell Robb informed that the September, October and November meetings would cost the Club \$600; including a \$100/month fee, which was normal, and a \$300 rolling damage deposit. He said the Club needed to decide about a commitment for January. He indicated the Club's financial shape was solid.

-Brad asked for a Club member with experience with email program to help the Club with email blasts every month; those interested should contact him.

-Steve Dover informed the Shop was open Wednesdays, Saturdays and Sundays. Members interested in coming in should call or go online to check availability, as attendance was limited. He indicated that temperature was checked at arrival and masks were available.

-Ken Rogers informed the yard sale would take place at the same location as the first one, and that six vendor spaces were still available.

-Ken informed next month's program would be a lecture on tourmalines by Dr. George Rossman.

-Brad reminded members to look up the October Nugget for the nominees for next year's slate.

The meeting adjourned at 7:45PM and was followed by the monthly program.

*Submitted by*  
**Ana M. Strambi Guimaraes**  
Recording Secretary

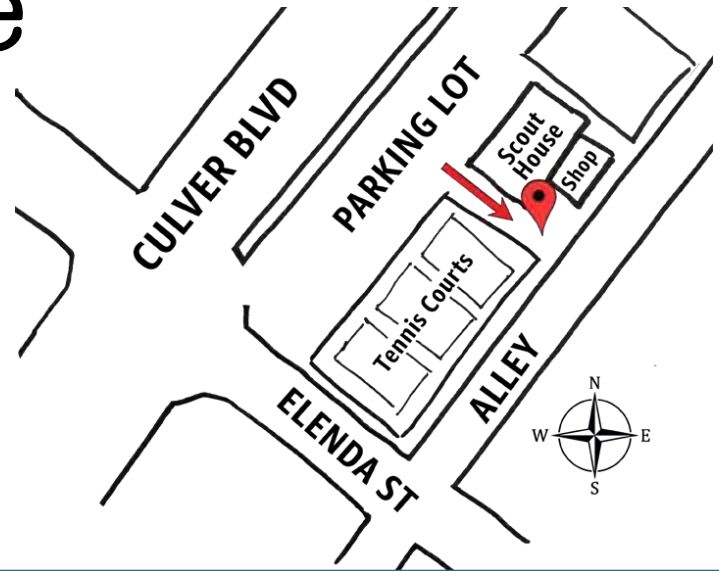
# Fall Parking Lot Sale

November 6 | Saturday | 10<sup>am</sup> - 3<sup>pm</sup>

gems • minerals • rough • slabs • crystals  
jewelry supplies • beads • findings • tools  
lapidary & jewelry equipment • books...

The Parking Lot Sale is behind the Scout House & our Lapidary Shop,  
next to the tennis courts

**10866 Culver Boulevard**  
**Culver City, CA 90230**



## SAVE THE DATE



NOV 13, 2021 10AM-4PM VETERANS MEMORIAL COMPLEX - ROTUNDA  
FREE ADMISSION

The Bead Society is planning a one-day Holiday Pop Up,  
highlighting Finished Jewelry and objects.  
Saturday, November 13, 2021  
10 am to 4 pm  
Culver City Veterans Memorial Complex  
Rotunda Room  
4117 Culver Blvd (at Overland)  
Culver City, CA 90230

Admission is free. All are welcome. Masking and physical  
distancing is required.

Get all your Holiday gifts here! So far, they will have  
exquisite designed brooches, stained glass, necklaces,  
bracelets, and rings.

<https://www.beadsocietyla.org/#/>

## Making Your Own Design Stamps Online Zoom Class



Learn how to make your own stamps, punches and  
texturing tools using common jewelry techniques.  
We'll prepare a tool blank, carve the face, and heat  
treat the steel for long term use.

Attend either Nov 20th or Dec 4th @10am online on  
Zoom.

For more information or to sign-up for the class,  
contact: [BradSmithJewelry@gmail.com](mailto:BradSmithJewelry@gmail.com)

# Lapidary Shop



Our fully equipped Lapidary Shop is open on a limited basis with modified rules and capacities.

Everyone is required to wear masks, observe social distancing and sign a liability waiver for the Club.

## Absolutely NO walk-ins are allowed!

Please contact the instructor to determine availability and reserve your spot:

Wednesday 10 am – 2 pm  
 Vern: [shop-avail-appoint@culvercityrocks.org](mailto:shop-avail-appoint@culvercityrocks.org)  
 Non-vaccinated allowed

Saturday 12 pm – 4 pm  
 Lynne Lukert: [gemlynne@ca.rr.com](mailto:gemlynne@ca.rr.com)  
 Discuss vaccination status with Lynne

Sunday 12 pm – 4 pm  
 Jette: [ccrhc-sundaylapshop@culvercityrocks.org](mailto:ccrhc-sundaylapshop@culvercityrocks.org)  
 Vaccinated only

If you are unable to attend at the last minute or are going to be 30 minutes or more late, call the Shop.

Members must be current with membership dues.

The Shop is for use by adults 18+ only; junior members 13+ must sign a special release and a parent/guardian must be present to use any equipment.

10866 Culver Boulevard  
 Culver City, CA 90230  
 The Shop is located behind the Scout House  
 Shop phone number: 310-836-4611

# CCRMC Membership

Membership to the Culver City Rock & Mineral Club is open to anyone, regardless of age or place of residence.

Junior members (under 18) must be sponsored by a parent, guardian, or a member in good standing and must be accompanied to meetings and on field trips by an adult member.

Benefits of membership include:

- 12 issues of the *Nugget* newsletter
- Attend Club meetings with expert speakers
- Participate in our Annual Fiesta of Gems show
- Entrance to our fully equipped Lapidary Shop
- Access to our library
- Go on rock collecting field trips
- Attend workshops at a reduced price
- Fun-filled silent auctions, parking lot sales, a holiday party in December and a member picnic in August

To become a member, complete an application and mail it back to us along with your one time initiation fee and the appropriate membership fee.

Membership is on a yearly basis from January 1 - December 31, and renewals are due on January 1 of every year. For new members joining after July 1, the fees are discounted for the first year.

Membership fees are:

	One Time Initiation Fee	Annual Membership Fee	New Members Joining After July 1
Individuals	\$20	\$25	\$15
Two persons same address	\$35	\$35	\$25
Junior (under 18)	\$15	\$10	\$5

The application can be found here:

<http://www.culvercityrocks.org/membership.htm>





## CFMS Upcoming Shows

Many clubs have canceled or changed their show dates due to Covid-19. At the time of publication, these are the shows that have not been canceled.

Please check the CFMS website for the most up to date information on upcoming shows.

<https://www.cfmsinc.org/shows-2/>

### November 6-7, 2021 – Ridgecrest, CA

Indian Wells Gem & Mineral Society, Inc.

Desert Empire Fairgrounds

520 S. Richmond Rd., Ridgecrest CA 93555

Saturday & Sunday 9 AM – 5 PM

Fieldtrip November 7th at 9 AM

Free admission!! Vendor spaces available. Goede purchasing and cutting, petroglyph slab paintings, gems and minerals and jewelry.

Contact: (760) 375-7905 or [fjrocks@dslxtreme.com](mailto:fjrocks@dslxtreme.com)

### November 6-7, 2021, Concord, CA

Contra Costa Mineral and Gem Society

Contra Costa Annual Mineral and Gem Show

5298 Clayton Rd., Concord, CA 94518

10 AM – 5 PM each day

Mineral & Gem Show & Sale – Admission \$6, Under 16

Free with adult. Scouts in Uniform Free. Military and

First Responders Free with ID. Gems, jewelry, mineral

specimens, fossils, meteorites, beads, tools, equipment,

fluorescent room. Demonstrations, displays, kids activities, door prizes, raffle and auction materials.

Contact: [mhopkins@ironhorsesdesign.net](mailto:mhopkins@ironhorsesdesign.net)

Website: <https://contracostamineralandgemsociety.org/annual-show/>

### November 13-14, 2021 – Yuba City

Sutter Buttes Gem and Mineral Society

29th Festival of Gems and Minerals

Yuba – Sutter Fairgrounds

442 Franklin Ave., Franklin Hall, Yuba City

Saturday 10 AM – 5 PM, Sunday 10 AM – 4 PM

Contact: 916 677-6696, [horita@comcast.net](mailto:horita@comcast.net)

Website: <http://sutterbuttesgemmin.org>

### November 20-21, 2021 – Lake Side, CA

El Cajon Valley Gem and Mineral Society

Lakeside Rodeo Grounds

12584 Mapleview St., Lakeside, CA 92040

Time: Saturday 9 AM – 5 PM, Sunday 9 AM – 4 PM

Free admission and parking.

Contact: 619 729-7904, [ecvgms@gmail.com](mailto:ecvgms@gmail.com)

Website: <http://ecvgms.org>

### November 20-21, 2021 – Santa Cruz, CA

Santa Cruz Mineral and Gem Society

Santa Cruz Live Oak Grange, 1900 17th Avenue, Santa Cruz, CA 95062

Time: 10 AM to 5 PM both days

Free admission and parking. Santa Cruz Mineral and

Gem Society annual holiday sale. Come and see

wonderful gifts of nature and art from around the world

– gems, jewelry, rocks, minerals, and lapidary arts.

Browse the bargains and pick up some great gifts for the holidays.

Contact: 408-644-7848, [scruzmgms@gmail.com](mailto:scruzmgms@gmail.com)

Website: <http://scrockngem.org>

We hope your birthday rocks...

# Happy Birthday!

Gary Mitchell



to our newest members:

Christopher Parks

Cobey Cobb

Hayley Stansell

Miguel Castaneda

Nick Gessler

Stephanie Hubbard

We're thrilled to have you join our Club and are looking forward to meeting you soon.

# the Nugget - Submissions

Submissions deadline is on the 15<sup>th</sup> of every month. Articles or notes without a byline are written by the Editor. Photographs without credits are shot by a CCRMC member.

Email submissions to Janet Gampe, Editor: [nugget@culvercityrocks.org](mailto:nugget@culvercityrocks.org)

# the Nugget - Advertisements

The Nugget accepts paid advertisements. The cost for an eighth of a page (approx. 2" high x 3.5" wide) is \$7 per insertion, payable in advance. Ad location is at the discretion of the Editor. Ads, copy, or business cards must be received by the 10<sup>th</sup> of the month.

Send materials to:  
Culver City Rock and Mineral Club  
Attn: Editor  
P.O. Box 3324  
Culver City, CA 90231

# Club General Meetings

Culver City Veterans Memorial Complex  
Multipurpose Room  
4117 Overland Avenue  
Culver City, CA 90230

# Lapidary Shop

10866 Culver Boulevard  
Culver City, CA 90230  
The Shop is located behind the Scout House.

# Mailing Address

Culver City Rock & Mineral Club  
PO Box 3324  
Culver City, CA 90231  
310-836-4611



# 2021 Elected Officers

**President**  
Brad Smith

**Vice President**  
Steve Dover

**Treasurer**  
Darrell Robb

**Recording Secretary**  
Ana Maria Strambi Guimaraes

**Corresponding Secretary**  
Véronique Gautherot

**Parliamentarian**  
Jon P. Gowling

# 2021 Committee Chairs

- Education – Alexa Hunter & Karen Wallen
- Federation Director – Rick Shaffer
- Field Trips – Devon Lloyd
- Historian – Virginia Hollis
- Librarian – VACANT
- Membership – Jette Sorensen
- Membership Co-Chair – Stephanie Dangott
- Minerals – Devon Lloyd
- Photography – Pam Leitner
- Programs – Ken Rogers
- Publications – Janet Gampe
- Publicity – Janice Metz & Christine Thompson
- Shop Committee – President, Vice President & Shop Instructors
- Show – Adrienne Louie
- Social – VACANT
- Sunshine – VACANT
- Trading Post – Gary Mitchell
- Webmaster – Jette Sorensen
- Workshops – Janice Metz
- Zoom Host – Darren Cokin

# Board of Directors

**2021**  
Franne Einberg  
Gary Mitchell

**2022**  
Virginia Hollis  
Janet Louie

**2023**  
Adrienne Louie  
Jette Sorensen

# Stay In Touch



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Culver City Rock & Mineral Club, Inc.

the Nugget  
PO Box 3324  
Culver City, CA 90231

**Address Change Requested**

First Class Mail



MONTHLY  
NEWSLETTER OF THE  
CULVER CITY ROCK &  
MINERAL CLUB

# the NUGGET



Frances Aldrich