



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.

August Virtual Program: A Journey to the Source of the Jade

Join us on Monday, August 9 @ 7:00 pm in our Zoom Room as George R. Rossman, professor of Mineralogy at California Institute of Technology, presents Myanmar: A Journey to the Source of the Jade.



Pala International

Myanmar, formerly Burma, has long been known as a country that produces spectacular mineral and gem specimens of world-class quality. When a question arose about determining if lavender color in jade is natural or artificial, it was desirable to obtain a sample of lavender jade at the mine where it would be free of any treatment.

Dr. Rossman was presented with an opportunity to travel to Myanmar and to go to the major jade mining district near the city of Hpakant. We will have a chance to follow his trip from Yangon north to Mandalay and then to the northern part of the country where we will visit some of the spectacular sights of Myanmar along the way. We will visit both former and active ruby and spinel mines and finally arrive large-scale jade mines where much of the world's jadeite is obtained. Also, we will hear a bit about the science behind the formation of these gems and how their color is researched.

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George R. Rossman is Professor of Mineralogy in the Division of Geological and Planetary Sciences, Caltech in Pasadena. He got his B.S. degree in Chemistry and Mathematics from Wisconsin State University, Eau Claire, and his Ph.D. from Caltech in Chemistry. His principal research interests deal with the use spectroscopic probes to study minerals. His work addresses problems relating to the origin of color phenomena in minerals; spectroscopic methods for phase identification; and the special role of metal ions in minerals. He is also interested in the long-term effects in minerals from the exposure to background levels of natural radiation. He was the recipient of the inaugural Dana Medal, of the Mineralogical Society of America in 2001, the Richard P. Feynman Prize for Excellence in Teaching at the Caltech in 2004, the Friedrich-Becke Medal of the Austrian Mineralogical Society in 2005, and this year's Roebbling Medal of the Mineralogical Society of America. He was also honored by having two new minerals of the tourmaline family named after him. He has more than 380 publications in the mineralogical and chemical sciences.

To learn more, visit:

George Rossman: <http://minerals.gps.caltech.edu/grr/index.html>

The mineral spectroscopy server: <http://minerals.gps.caltech.edu/>

Submitted by
Ken Rogers
Programs Chair



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Upcoming Activities

- August 2 – Executive Meeting
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 - August 14 – Annual Club Picnic
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 - September 13 – General Meeting & Sept. Program
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General Meetings on Zoom

All meetings, General and Executive meetings will continue to be held via video conferencing until further notice.

General Meetings are held the second Monday of every month at **7:00 PM on Zoom** until it is safe to resume in person meetings.

Join the Zoom meeting 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 of our Club traditions have been set aside for health and safety reasons over the last year, and things are still so unsettled that regular indoor meetings at the Multi-Purpose Room are not possible. But this month, we're looking forward to the Club's annual summer picnic and silent bid auction in just two weeks on the 14th.

The Club will be furnishing the main dishes, Eric Scott is picking up the hot dogs and hamburgers, and Rick & Mary Ellen Shaffer are bringing the drinks.

Club members are asked to bring the side dishes like salad, veggies, dessert, etc.

And for our main entertainment, Ken Rogers will be arranging a silent auction. Please bring anything you'd like to donate. We'll have plenty of bidding slips and pencils available.

We hope you can join us, but out of an abundance of caution *we ask that all who attend wear a mask at all times when not actually eating.* The Delta variant is said to be 8 times more contagious than earlier viruses, and we certainly don't want our picnic to be the reason that someone gets sick.

Brad Smith
President

The Nugget Wins Best Newsletter in the Nation!

The Nugget newsletter has proudly won the best large (bulletin) newsletter, awarded by the American Federation of Mineralogical Societies (AFMS). Winners were announced at the 2021 AFMS Editors/ Webmaster's breakfast in Big Piney, WY on June 20 during the AFMS convention.



Janet Gampe - the Nugget editor with AFMS 1st place plaque.

The [2020 November issue](#) of the Nugget was submitted to the California Federation of Mineralogical Societies (CFMS) for consideration. CFMS includes clubs in California, Nevada, and Arizona. There are 98 clubs in the CFMS.

The top 3 submissions for each category are then sent to the AFMS for national judging. A minimum score of 90 points out of 100 are required to receive the CFMS trophy. The items scored are: first impression, vital information, format/editorship, club news, federation news, and articles.

This was my first entry and I am so excited our Club was recognized as the first place winner. Let's just say that again, **We Won!!!**

It takes a village to get the Nugget completed each month. So I'd like to thank the CCRMC villagers who helped to make the Nugget a winner:

Brad Smith, President for his monthly message to our Club.

Rick Shaffer, Federation Director for sending me Mini Miners Monthly for the fun quizzes and for telling me about the bulletin contest!

Ken Rogers, Programs Chair for the November program write up, "A Geological Tour of Australia" and for his "I need cash sale" to include the CCRMC Community Marketplace, which I would love to continue, so please send in your for sale items.

Nyki Bell, CCRMC Member for her original (write-up and images) submission, "Jewelry Photographay 101."

Ana M. Strambi Guimaraes, Recording Secretary for her October program write-up, general and executive meeting minutes.

Pam Leither, Photography Chair for attending meetings and events, to provide me with images.

Alexa Hunter, Nominating Chair for the write-up and contacting each officer and committee chair to confirm the 2021 slate of officers and chair nominees.

Janice Metz, Workshops Chair for her continued co-ordination of workshop descriptions and images.

Devon Lloyd, Minerals Chair for sharing the "Was a \$280 Million Emerald Destroyed in California Wildfire? PG&E are Dubious" article.

Jette Sorensen, Membership Chair for keeping track of new members and their birthdays.

I'll be dropping off the plaque and certificate at the Shop in the near future, so be on the look out when you're there.

Janet Gampe
Publications Chair/Editor



Jewelry Making Tips & Tricks: One Part Die Forming

An easy way to make large and strong components for your jewelry designs while keeping the weight of precious metal to a minimum is done with simple tools in a process called one-part die forming. Complex 3-D shapes can be made quickly from thin gauge sheet with just a piece of plastic and a dapping ball.

I make a forming die by sketching the shape I need on a piece of thick plastic. Then drill a hole and saw out the shape with a jeweler's saw and a coarse blade. Almost any shape will work, although it's best to avoid sharp corners.

For saw blades, choose the coarsest you have, like a #3 or #5. Thin blades will heat up in the cut and sometimes will stick in the plastic. Wax cutting blades in a coarse tooth are supposed to work well.

When sawing, try to keep edges straight up and down. Refine the cut as needed with a sanding drum or file. Select a thickness of plastic that is just a little more than the amount of doming you want.

Note: I tend to use 1/4 inch or 3/8 inch plastic that I get as scraps from the Solter plastics shop at Centinella and Pico. Scraps are left out at their back door on the alley ONLY after they close at 6pm.

To use the die, cut a piece of sheet about 3/8 inch wider than the hole in the die on all sides. Anneal the sheet and tape it down on the plastic. Use a dapping ball and hammer to create the domed shape. When the taped down edges begin to warp, planish them flat on the top of the die. Finally, if the sheet is to be domed deeply, you will need to anneal the metal occasionally.



One nice feature of this technique can be seen in the top and left of the picture. If the sawed walls are straight up and down, the hole on the bottom is a mirror image of the hole on the top. This allows you to produce a mirror image shape as needed to make left and right earrings or both sides of an irregular shaped bead as shown.

Submitted by
Brad Smith
President



Do you have tips and tricks that you'd like to share?

Send your photos and tips and tricks our way and we'll feature it in the next Nugget!

Email us your write-up and images to:
nugget@culvercityrocks.com

July Program Report: Geology of California National Parks

Geologists Dick and Mary Pat Weber discussed the geology of multiple California National Parks.

Yosemite National Park

The entire park is made of one rock type: granite. As the Pacific Plate started subducting under the Continental margin, granite was elevated six to ten miles, at great pressure. The Half Dome shows one single fracture in the front, while the back side shows a "onion skin" peeling texture. Glacial striations are also noted at the park. Multiple glacial events contributed to erosions, resulting in visible scratches on the rock as well as erratic rocks. Waterfalls are another feature of the park. Waterfalls typically move back by eroding the edge of the water; however, the erosion is very small at Yosemite.

Kings Canyon and Sequoia National Park

Kings Canyon is deeper than the Grand Canyon by several hundred feet. Granitic domes and roof pendants are featured. In addition, water carved out more than two hundred caves. Among them are the Crystal Cave, known for its beautiful calcite crystals, and the Boyden Cavern, which shows vertical fractures in the marble.

Joshua Tree National Park

The park features gneiss formations. There are massive piles of rocks surrounded by sand; no small rocks. That is not a result of glaciation; rather, weathering happens vertically along the vertical fractures. The park has a Geology Tour, an eighteen mile road with sixteen stops where one can view piles of rocks and two cinder cones. The park also features twelve square miles of massive jumble granite. The Lost Horse Mine, of gold and silver, has been preserved.

Lassen Volcanic National Park

The park contains many volcanos and hot springs, with good examples of every volcanic feature. The geology is young, about several hundred years, thus the rocks have not eroded yet. The last eruption in the park occurred in 1914. The Lassen volcano is a plugged dome volcano, which sides are very fractured and unstable. When it exploded, snow on the top of the mountain melted or vaporized, causing powerful mudflows that dislocated massive rocks. The park has cinder cones formed about 350 years ago, with lava flows covering about seven miles. The park also

has lava tubes, as well as dunes, formed by ashes deposited on the ground sitting atop extremely hot lava. The park features lots of hydrothermal activity, such as hot springs, fumaroles and mud pots. The mud in the mud pots is clay from the surrounding rock weathered by the hot water.

Pinnacles National Park

The newest of the national parks, the park features pinnacles and towers of volcanic rock. The San Andreas fault moved the pinnacles several miles west of the fault. Due to the humid climate along the coast, the park gets large amounts of rain. The top of the pinnacles break off due to erosion and fall between the pinnacles, forming "caves". The caves are mostly blocked off most of the year due to protected bats that have moved in. The park has a west and an east entrance, but it is not possible to drive through directly.

Death Valley National Park

The park has 1.7 billion year old granite and limestone, with sandstone on top. In the Pleistocene, the entire valley was completely flooded, over six hundred feet deep in places. It features large mud flats, including the lowest point in North America at 282 feet below sea level. An example of the mud flats is the Race Track Playa. It features large rocks, up to 300 pounds, that moved through the mud flat and left a track behind them. To understand how the rocks moved, geologists attached GPS markers to the rocks, and used portable recording weather stations and time lapse photography. After six years of research, they discovered that the movement was due to a rare phenomenon, in which a thin film of ice can form on the mud flat, turning it into a very slick surface that enables winds to move the rocks. Movements of sixty feet have been recorded. The park also has dunes on its side, formed by fine dust that gets blown away. The park also feature craters, but they are not impact craters. When a certain amount of water collects and gets deep enough in the rocks, they get heated by steam and blow up, forming the craters. Another attraction of the park is the Artist Drive, featuring a multitude of colored material resulting from oxidized iron, copper, magnesium, and manganese.

Submitted by
Ana M. Strambi Guimaraes
Recording Secretary

Annual Club Picnic on 8/14

It's time for our Annual Club picnic! We're excited we're able to host our picnic this year and are looking forward to catching up with each other and meeting our newest members.



Date: Saturday, 8/14/2021

Time: 10 AM - 3 PM

Location: Covered picnic area at Lindberg Park, 5041 Rhoda Way, Culver City, 90230

Parking: Lots of free parking on the street

Lunch:

- The Club will provide the main dishes, hot dogs and hamburgers
- Rick & Mary Ellen Shaffer will provide drinks
- Club members - please bring side dishes (e.g. salad, vegetables, chips, guacamole, salsa, ice cream, dessert, fruit, you get the idea

Silent Auction:

Each year, Ken Rogers arranges a fantastic silent auction. Items will be placed on the picnic tables and benches along with the bid sheet and a pencil.

You never know what items will appear in the silent auction, so come and outbid your fellow CCRMC member for some great stuff. Feel free to bring anything you'd like to donate to the auction.

Please note: We ask that everyone wear a mask at ALL TIMES when you are not eating or drinking.

The Delta variant is just as contagious as the chicken pox, we don't want anyone to get sick from the picnic and we want to protect our younger guests or anyone that is not able to be vaccinated.

See you soon!

Every Jeweler's Dream



At first glance, junior member Robby Shearon's new workbench looks like the Rio Grande top-of-the-line (~\$4,000) bench, but a closer look, it is even better than that. Andy Shearon handmade it for his

15-year old jeweler, lapidarist, and future gemologist.



Wire wrapped pendant by Robby

It is a bench every jeweler dreams of, and Robby is now the proud owner of an heirloom bench that will last for generations.

Submitted by
Jette Sorensen
Membership Chair

We'd love to feature YOU in the next Nugget.

Tell us a little about yourself, include some photos so we can "meet" you and throw in your website URL to share the greatness that is you.

Send your info to: nugget@culvercityrocks.com

Executive Meeting Minutes

July 12, 2021

Those present: Steve Dover, Darrell Robb, Ken Rogers, Brad Smith, Jette Sorensen, Ana M Strambi Guimaraes, Christine Thompson, Karen Wallen, Janelle Williams

Brad Smith called the meeting to order at 6:30 PM

The following was discussed:

-Brad informed that the Veterans Memorial Auditorium's meeting rooms have become available; the Club had requested reservations for August, September, October, and November and was awaiting a response. The Club requested high speed internet to be available so that meetings could be broadcast to those unable to attend in person.

-Jette Sorensen announced that the Club had 96 members.

-Brad mentioned that the Shop was opening up further, but it needed additional instructors. He suggested to look at the log book to determine which members had been visiting the shop frequently and who could serve as instructor.

-Christine Thompson informed she had established an Instagram account for the Club.

-Jette informed she had added Christine to the Publicity Committee and Darren Cokin to the Zoom Host Committee.

-Darrell Robb provided the Club's account balances and informed there were not many expenses going forward.

-A discussion followed about the next year's show. Brad informed he had requested for a date in July. He also mentioned that if the current Show Chair were unable to serve, other members who have served in the past could step in.

-Brad informed the picnic date had been set for August 14, from 10 AM to 3 PM. Steve Dover asked Ken Rogers to go through the materials at the Shop for the silent auction. Brad committed to confirming if Eric would bring the food.

The meeting adjourned at 7:01 PM.

General Meeting Minutes

June 14, 2021

The meeting was called to order at 7:01 PM.

The following announcements were made:

-Brad Smith informed the Veterans Memorial Auditorium's meeting rooms have become available; the

Club had requested reservations for August, September, October, and November, as well as for the 2022 show, and was awaiting a response.

-Brad announced that the picnic would take place on August 14 at Lindberg Park, from 10 AM to 3 PM.

-Brad informed that appointments were still necessary to use the Shop, and instructors had discretion as to whether or not they would accept non-vaccinated users.

-Ken Rogers informed the InterGem show in Pasadena would take place the weekend of July 17, and that there were a couple of other shows in the fall.

-Ken informed that the August program had not been confirmed yet.

-Brad mentioned that the old tool sale at Anderson Plywood was scheduled for August 21.

-Brad informed the Hope Ranch 'Volcano' in Santa Barbara was active again and could potentially be visible from the 101 Fwy.

-Janelle Williams announced that the Pasadena Bead & Design Show would take place July 23-25 at the Hilton Hotel.

-Christine Thompson informed she had established an Instagram account for the Club.

-Jette Sorensen announced that the Club had 96 members.

-Darrell Robb informed the Club was solvent and had sufficient funds to cover foreseeable expenses through the end of the year. Investments appreciated and recovered losses from last year.

-Brad asked members to submit news and interesting information to the Nugget (nugget@culvercityrocks.org). Ken reminded that in June the Nugget had been recognized as one of the top ten publications of its kind in the nation.

-Brad reminded that the Club would need to have a slate of officers for 2022 by October, for elections in November.

-Quorum was not established, therefore the June meeting minutes could not be approved.

The July Program followed and the meeting adjourned at 8:23 PM.

Submitted by
Ana M. Strambi Guimaraes
Recording Secretary

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
Non-vaccinated allowed

Thursday 5 pm – 9 pm
Kent Goodman: kentgoodman@gmail.com
Discuss vaccination status with Kent

Friday 12 pm – 4 pm
Kent Goodman: kentgoodman@gmail.com
Discuss vaccination status with Kent

Saturday 12 pm – 4 pm
Lynne Lukert: gemlynne@ca.rr.com
Discuss vaccination status with Lynne

Sunday 12 pm – 4 pm
Jette: crcmc-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

We hope your birthday rocks...

Happy Birthday!

Barbara Fier
Randal Rhodes
Joanie Rippner
Laurence Chuck
Damon Pressman
Brad Smith
Lorraine Murphy
Eric Cohen

and....

a happy belated birthday to our July babies

Alexa Hunter
Brandon Frey
Dower Jai Gervais
Janet Louie
Emily Kirk

from the editor: apologies for my error in omission from the July Nugget.



to our newest members:

Anthony Cantatore	Jesse Lovell
Charlotte Lingle	Jim Azama
Elisha Levin	Karin Olsson
Elise Piner	Leda Rogers
Emilie Golding	Lorna Herf
Eric Cohen	Lynn Fischer
Ester Feldman	Melissa Lavabre
Ginger Lai	Michael Gabriele
Hayley McGuire	Nancy Bird
Hector Basabro	Robert Green
Ian Daelucian	Tobin Filtz

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



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/>

August 21-22, 2021 – Tehachapi, CA

Tehachapi Valley Gem and Mineral Society
TVGMS Annual Gem, Mineral and Jewelry Show
500 East "F" Street, Tehachapi, CA 93561

Saturday and Sunday 9 AM to 5 PM

Contact: (661) 972-1117

Email: travis462@outlook.com

Website: <http://tvgms.org>

Rocks, Gems, Minerals, Beads, Jewelry, kids activities and more plus Tehachapi Mountain Festival 2021.

September 11-12, 2021 – Reno, NV

The Reno Gem & Mineral Society, Inc.
Jackpot of Gems

Reno Convention Center

4390 S. Virginia St., Reno, NV

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

Contact Dan Ellis, sailondan55@aol.com

Website: www.renogms.org

September 18-19, 2021 – Chico, CA

Feather River Lapidary and Mineral Society
Silver Dollar Fairgrounds

2357 Fair St., Chico, CA 95928

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

Contact: (530) 586-7052

Website: <http://featherriverrocks.org>

September 24 – 26, 2021 – Stoddard Wells, CA

Victor Valley Gem and Mineral Club

45th Annual Stoddard Wells Rockhound Tailgate

Dale Evans Parkway and Stoddard Wells Road, Apple Valley, CA.

Friday, Saturday, and Sunday 9 AM – 5 PM

Free event, everyone is welcome! FREE Vendor Spaces, dry camping, restrooms available. First come, first served.

Handcrafted jewelry, cabs, slabs, rough, and more. Food served breakfast & lunch. Saturday field trip 9 AM – 1 PM.

Contact: (760) 243-2330

Email: dwayna.barron@gmail.com

Website: <http://www.vvgmc.org>

Free Gem Faire Pass

If you're heading to the Gem Faire in Costa Mesa on August 27-29, here's a link to get yourself a free pass: <https://gemfaire.com/emailcoupon/>

Free National Park Days

If you're interested in visiting your National Parks or Monuments, listed here are the fee free days that you can get free entrance into Parks and Monuments.

August 4: One year anniversary of the [Great American Outdoors Act](#)

August 25: [National Park Service Birthday](#)

September 25: [National Public Lands Day](#)

November 11: Veterans Day



CCRMC Community Marketplace

The Club is happy to have a space for our members and friends to sell, trade or give away any items related to rocks, minerals, gems, lapidary equipment, jewelry tools and supplies, and rock hounding.

How to sell an item

Send an email to nugget@culvercityrocks.org with the following info:

- Title of the item for sale or the name of your sales event with a brief description
- Picture of the item for sale (if applicable)
- Price
- Seller's name and contact information
- Date of event (if applicable)

the Nugget - Submissions

Submissions deadline is on the 15th 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

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 10th 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



Frances Aldrich

Stay In Touch



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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
- Show – Adrienne Louie
- Shop Committee – President, Vice President & Shop Instructors
- 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

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