



Diablo Diggins

"We Dig Rocks"
Since 1950

Monthly Newsletter of the Contra Costa Mineral & Gem Society

June 2024
VOL. 72 NO 6

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Come Share the FUN!

Annual Club Picnic June 8 at the Morgan Ranch



See Information inside

CCMGS MISSION STATEMENT: Our purpose is to promote popular interest and education in the earth sciences, including geology, mineralogy, paleontology, the lapidary arts, and related subjects; to sponsor and provide means of coordinating the work and efforts of persons and groups with similar interests; and by and through such means to strive toward greater community and international good will and fellowship.

We also support promoting and ensuring the right of amateur hobby collecting, recreational prospecting and mining, and the use of public and private lands for educational and recreational purposes related to the earth sciences. We fulfill our mission by holding monthly meetings and special programs. Members attend and participate in local and statewide events and hold a yearly public show.

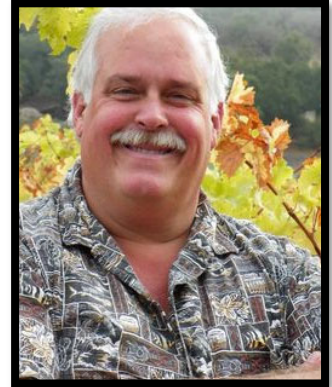
NEXT GENERAL MEETING: No General Meeting this month.
Annual PICNIC! June 8th, BOD June 1



PRESIDENT'S MESSAGE

Our next meeting will be our **ANNUAL PICNIC**. The Morgan family has graciously offered their home on Morgan Territory Road. Always a fun event. Please bring your friends and family but let Cheryl [cherylmorgan09@yahoo.com] or me know ASAP so we can get an accurate count. And bring a rock related donation for the auction. Or an item or three that you wish to sell. See the notice here in the newsletter.

I have had the honor of being your president for the last two years and on the board for many years before that. It is time for others to step up to **leadership roles** in our club. Please consider filling one of the vacant chairperson seats. Or working with another as co-chair or committee member. No experience is needed and give only what time you can.



Michael Hopkins
President CCMGS

We are also helping with the rock painting booth at the **Alameda County Fair**. Signups will be at the picnic, or you can contact Cheryl. No experience needed, A/C controlled building and seating. You can take a break and visit some of the exhibits at the fair. I worked a couple of days last year and had a great time representing our club and talking rocks to people.

Ashley Roderick and **Barbara Roderick** and are nearly ready to publish our new website. I think it looks fantastic and I am excited to see it nearly ready.

I also wish to thank **Karen Oliver** for the donation of a rock samples and equipment to the club.

See you all at the picnic, bring a friend.

No reports this month from Federation Director, VP1 and VP2.

Our next get together is our Annual CCMGS Club Picnic

Date: Saturday, June 8th
Time: Starts at 1pm
Location: 6040 Morgan Territory Rd, Clayton, CA 94517
Cost: \$20 donations to cover cost requested, but not required
What is provided: Tri Tip, Chicken, Various Salads, Tea, Lemonade and Water. Catered by Kinders. All paper, utensils and drink cups provided. Please bring any other drinks you want, but no food.

What to bring: Yourself and any guests.

Activities: We will have a **club auction**. Donated items are greatly appreciated with all proceeds to go to the club.

You can sell items, please label item with your price. Auction will start at that price with any additional \$ going to the club.

Bring cash as well, because you never know what someone else will bring. Checks accepted.

We will have classes and demonstrations of lapidary skills, and guests learning about who we are.

Please bring any outdoor games that you enjoy,

Please RSVP to Cheryl AS-SOON-AS-POSSIBLE [JUNE 1] with number of attendees and if you need help with access. cherylmorgan09@yahoo.com
Or leave message with Mike Hopkins mike@diablorocks.com

WHAT DOES THAT MEAN? ... MORPH

MORPH, TO CHANGE THE FORM OR CHARACTER OF : TRANSFORM. INTRANSITIVE VERB. : TO UNDERGO TRANSFORMATION. MERRIAM-WEBSTER

SOME COMMON MORPHS RELATED TO THE STUDY OF THE FORMATION AND STRUCTURE OF ROCK:

GEOMORPHIC PERTAINING TO THE FORM OF THE EARTH OR OF ITS SURFACE FEATURES; E.G., A GEOMORPHIC PROVINCE.

METAMORPHIC ROCKS STARTED OUT AS SOME OTHER TYPE OF ROCK BUT HAVE BEEN SUBSTANTIALLY CHANGED FROM THEIR ORIGINAL IGNEOUS, SEDIMENTARY, OR EARLIER METAMORPHIC FORM.

EPIMORPH A HOLLOW SHELL, OR MOLD, LEFT BY A MINERAL THAT HAD OVERGROWN AN INITIAL MINERAL WHICH HAS DISSOLVED AWAY. (FORMING 'CASTS' OR 'SHELLS').

PSEUDOMORPH OCCURS WHEN A MINERAL IS ALTERED IN SUCH A WAY THAT ITS INTERNAL STRUCTURE AND CHEMICAL COMPOSITION IS CHANGED BUT ITS EXTERNAL FORM IS PRESERVED.

DIMORPH TWO MINERALS SHOWING THE SAME CHEMICAL COMPOSITION BUT DIFFERENT CRYSTAL STRUCTURE. SEE POLYMORPH.

POLYMORPH REFERS TO FOUR OR MORE MINERAL SPECIES THAT HAVE THE SAME CHEMICAL FORMULA. [SILICON DIOXIDE](#) (SiO₂) IS A GREAT EXAMPLE. [QUARTZ](#) CRYSTALLIZES IN THE TRIGONAL SYSTEM, [TRIDYMIT](#) CRYSTALLIZES IN THE ORTHORHOMBIC SYSTEM, [CRISTOBALITE](#) CRYSTALLIZES IN THE TETRAGONAL SYSTEM, [COESITE](#) CRYSTALLIZES IN THE MONOCLINIC SYSTEM, AND [STISHOVITE](#) CRYSTALLIZES IN THE TETRAGONAL SYSTEM— AND THEY ALL HAVE THE SAME CHEMICAL FORMULA! ROCK AND GEM



Pseudomorph Copper after Aragonite



Epimorph Calcite shell



Dimorph, Aragonite and Calcite

Show Chair

I must admit that during the month of May I made little progress on planning for the upcoming show, while my life was rather abundant. My youngest daughter got married May 4th in a beautiful ceremony in Newcastle, CA. It was punctuated by an unseasonal hailstorm turning the courtyard white.. At the same time, my son got engaged to be married. All while out of town family stayed with us and we showed off the wonders of San Francisco, Muir Woods and the Sierra foothills.

After visiting family left, my wife Linda and I treated ourselves to four day decompressing trip to Yosemite Valley in our Ford Transit camper van. My wife is an expert at finding campsite reservation that have been canceled and the North Pines campsite had just opened after the risk of flooding subsided, so we made a hurried decision to get away, missing the May club meeting. We had beautiful warm weather while either biking in the valley or trekking the 8-mile hike from Curry Canyon on the Mist Trail to the top of Vernal and Nevada Falls. There is something cleansing and humbling spending time within the walls of granite cliffs and waterfalls that is Yosemite.

Closer to home, some of you may know that my focus is on local rocks. Going on a lead on where to find petrified wood in Pittsburg, I finally found a 2 lb. piece of petrified wood. It was along the freshly plowed fire roads at Stoneman Park, 2225 John Henry Johnson Pkwy, Pittsburg, CA.



Last but not least, regarding the upcoming show, this month we will be formalizing our contracts with our show vendors and potential sponsors. We will be firming up membership roles and reaching out to you for your commitment where possible during the show.

I am looking forward to seeing everyone at the CCMGS picnic so graciously being held at the Morgan family residence on the 8th.

Rob Savre, Show Chair

Secretary Report

CCMGS GEMM - May 13, 2024

Endeavor Hall, Clayton 7pm

GEMM = **G**eneral **E**ducation **M**eeting **M**inutes

Present: 17 members and 2 guests, Dave Kleesattel

It was a delight to have honorary members Terry and Joanne Caskey and their caretaker join us tonight. Meeting called to order 7:02pm with the Pledge of Allegiance led MH.

Officer/Committee Reports

VP1- Cheryl will be working the Alameda Fair starting the 2nd weekend of June through all weekends in July. Looking for volunteers to help with painting rocks.

Picnic - June 8th (see calendar in newsletter). Morgan's Ranch @1pm. \$20/person. Catered services to be decided tonight. No food from home. Kinders wins the vote with majority present in favor. Cheryl taking requests for preferred entrees, and side (s) dishes. Water, tea coffee and lemonade, paper products provided. BYO sodas. Guests are welcome. Contact Cheryl if needing ride/mobility assistance. Details and map coming in the next newsletter. Sign up sheet tonight. Ideas for activity and/or game (s) contact Cheryl. No pets or alcohol allowed. Discussion of having tables with member items for auction. Donating 10% sold price to the club. Need flyer sent out asap.

VP2 - absent; Mike reports CO-OP trips are all out of state NV., Utah and Arizona.

CCMGS August trip - **Finnius** helping Rudy with accommodation options. Finnius will email research info of locations upon request. Make reservations in advance if going. Can camp on site. Flexible schedule with going to all 3 sites. Contact Rudy for rsvp and info. More trip details are coming out soon. Rudy looking for anyone interested to lead any local area trips, contact Rudy or Mike.

Treasurer - Bank balance @ \$26,650.29 Will send financial report upon request.

Secretary, Membership, Property, Hospitality - No Report.

Federation Chair, Show Chair - Absent No report - No report

Dave Kleesattel brought slab samples to display "for-sale" by appointment only. See his contact information on the table.

Dennis Freiburger brought in an excellent specimen of Ruby marcasite for show and tell. Thank you, Dennis and Dave, for sharing with the club.

Program tonight "Mineral Identification for budding mineralogists" presented by **Mike Hopkins**.. This is normally a full day class so some material he glossed over. Many mineral samples passed around for examination and a folder of information for members use. Loads of information presented. Thank you Mike for an excellent job presenting the physical techniques used to aid in identifying a variety of minerals, bringing tools and objects used in the processes to identify minerals. Very informative presentation.

Meeting adjourned @ 9:30 pm.

Thank you to **Finnius** for the generous donation of Clorox products for our taking.

Minutes recorded and submitted by Barbara Roderick, Secretary, CCMGS 2024 [edited MH]

Fun stuff from Mini Miners Monthly

Ore Minerals Word Search

Find the silicate minerals listed below. They can be found left to right, right to left, top to bottom, bottom to top, or diagonally.

C	O	B	A	L	T	I	T	E	W	O	W	A	M	W
I	H	T	A	L	E	T	I	M	O	R	H	C	O	O
N	I	A	S	U	P	O	I	U	S	S	D	A	L	L
N	O	Z	L	I	X	J	I	T	P	P	M	N	Y	F
A	S	U	Y	C	B	I	I	V	H	E	A	T	B	R
B	X	R	T	H	O	B	T	W	A	R	L	H	D	A
A	L	I	T	O	N	P	B	E	L	R	A	I	E	M
R	T	T	L	I	W	H	Y	P	E	Y	C	T	N	I
G	L	E	T	B	G	E	A	R	R	L	H	E	I	T
P	A	E	Z	T	Y	U	I	O	I	I	I	O	T	E
O	E	T	I	T	A	M	E	H	T	T	T	O	E	R
F	L	Y	R	T	F	E	D	S	E	E	E	W	O	W
C	R	O	C	O	I	T	E	G	A	L	E	N	A	T
M	N	L	O	I	T	E	T	I	T	E	N	G	A	M
U	R	A	N	I	N	I	T	E	T	I	N	R	O	B

Galena, Azurite, Malachite, Hematite, Magnetite, Cinnabar, Sphalerite, Uraninite, Bauxite, Chalcopyrite, Chromite, Crocoite, Wolframite, Acanthite, Bornite, Cobaltite, Molybdenite, Stibnite, Sperrylite, Zircon

Local Shows and Events

June 7-9, 2024—Monterey Bay Jade Festival

Monterey State Historic Park
 Custom House Plaza
 Monterey, CA
 Hours: Friday 1-7, Sat 10-6, Sun 10-4
 Free to enter
 Website: montereybayjadefestival.org/

August 3-4, 2024 – Roseville, CA Roseville Gem, Jewelry, Fossil & Mineral Show

Roseville Rock Rollers Gem and Mineral Society. The Grounds Roseville, 700 Event Center Drive, Roseville, CA 95678
 Hours: Saturday 10 AM – 5 PM,
 Sunday 10 AM – 4 PM
 62nd Roseville Gem, Jewelry, Mineral, and Fossil Show. Over 70 vendors, inside/out, featuring: Crystals, Fossils, Minerals, Amethyst, Beads, Gemstones, Meteorites, plus Free – Scientific Mineral and Gem ID – bring your rocks for a no-cost Scientific Identification! Fun for Kids in “Education Station”, Petrified Wood, Stone carvings, many special exhibits. Demonstrations, Huge Rock Auctions. Lots to see for adults and kids at this family friendly event. General admission \$10.00, Kids – 12 and under Free. Parking \$10. Tickets at the door, online, or grab a discount coupon on our even website: rockrollers.com

August 24-25, 2024 – Arcadia, CA Pasadena Lapidary Society

Arcadia Masonic Lodge, 50 W. Duarte Rd., Arcadia, CA 91007
 Hours: Saturday 10 – 5, Sunday 10 – 4
 Now in our 75th year, Pasadena Lapidary Society celebrates our 64th Annual Tournament of Gems.
 Website: pasadenalapidary.org

September 21-22, 2024 – Monterey, CA

Carmel Valley Gem & Mineral Society
 Monterey Fairgrounds, 2004 Fairgrounds Road, Monterey, CA 93950
 Hours: 10 AM – 5 PM both days
 Rocks, minerals, fossils, vendors, gems, silent auction, beads, equipment, exhibits, kind's stuff, and jewelry
 Contact: susieharlow@gmail.com
 Website: <http://cvgms.rocks>

September 28-29, 2024 – San Luis Obispo

San Luis Obispo Gem and Mineral Club
 Veteran's Memorial Building, 801 Grand Ave., San Luis Obispo, CA 93401
 Hours: 10 AM – 5 PM Daily
 Gems By The Sea: Two dozen dealers, Unique handcrafted gifts by local artisans, Demonstrations of lapidary crafts, Children's activities. Free Parking.
 \$5 admission (12 & under free)
 Website: slogem.org/gems-by-the-sea/

October 12-13, 2024—Sequoia Gem and Mineral Show

Redwood City Community Activities
 Building 1400 Roosevelt Ave. Redwood City, CA. Hours: 10-5 each day, Good both days.
 Adults \$5, 12 and under free
 Website: sequoiagemandmineralsociety.org

October 26-27, 2024 – Sacramento, CA

Sacramento Mineral Society
 Scottish Rite Center, 6151 H Street
 Sacramento, CA 95819
 Hours: Saturday 10 – 5, Sunday 10 – 4
 88th Annual Sacramento Gem, Mineral, & Jewelry Show.
 \$8 adult, kids under 12 free with paid adult
 Free parking,
 Website: <http://sacgemshow.com>

The Roseville Rock Rollers
62nd Annual Natures Wonders Show

GEM, JEWELRY, FOSSIL MINERAL SHOW

August 3 & 4, 2024
Saturday 10am-5pm
Sunday 10 am- 4pm

@the Grounds in Roseville
700 Event Center Drive. Roseville CA 95678

**\$1. OFF Admission
with this card**

General Admission \$10.
Kids 12 and Under FREE
Indoor and Outdoor Activities
Parking \$10



60+ Vendors
Family Fun!
Crystals
Minerals
Fossils
Meteorites
Jewelry
Gemstones
Beads
Demonstrations
Kids Education Station
Mineral ID
Door Prizes

Roseville Rock Rollers
Gem & Mineral Society
www.rockrollers.com



Carmel Valley Gem & Mineral Society
62nd Annual

GEM SHOW



Sept 21 & 22, 2024
Monterey Fairgrounds
2004 Fairground Road, Monterey, CA 93940

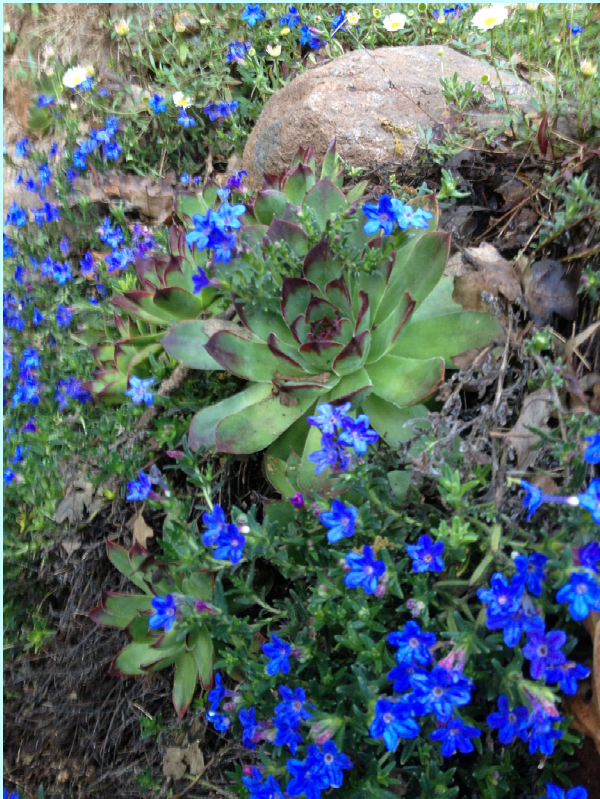
Gems, Minerals, Fossils, Vendors, Rocks,
Demonstrations, Silent Auction, Beads,
Equipment, Exhibits, Kids stuff and Jewelry

Sat. & Sun
10 to 5
Admission \$5.00
**\$1.00 off
with Coupon**



Children under 12 with an Adult are FREE
Website www.cvgms.rocks and like us on Facebook

SUPPORT LOCAL CLUB SHOWS



LITHODORA TRAILING OVER ROCK WALL

Roseville Rock Rollers www.rockrollers.com

TAIL GATOR- ROCK SWAP- SALE



• Free to the public
• Food & soft drinks available for sale
• Fun for the whole family

SATURDAY, June 1, 2024
8:00AM-4:00PM

Location: Carmichael Elk's Lodge parking lot sale
5631 Cypress Avenue, Carmichael, CA 95608

RRR Tailgater Vendors located along the
Cypress Avenue side of the parking lot

Contra Costa Mineral & Gem Society Show November 2-3



We're on the web!
UNDER CONSTRUCTION

We're on Facebook!
[www.facebook.com/
groups/CCMGS/](http://www.facebook.com/groups/CCMGS/)

ccmgs.2023@gmail.com

Diablo Diggins

Newsletter of the
Contra Costa Mineral
and Gem Society

Editor:
Michael Hopkins

Send reports/articles/
pictures by the 25th of
the month to:

mike@diablorocks.com

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gan09@yahoo.com](mailto:cherylmorgan09@yahoo.com)

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rudytrautner@gmail.com

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ccmgs.2023@gmail.com

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Federation Director
Kelly Plumb
ccmgs.2023@gmail.com

Show Chair
Rob Savre

Show Co-chair
Michael Hopkins

Education Cochairs
Cheryl Morgan
Donna Albrecht

Property Chair:
Primo Facchini

UPCOMING MEETINGS

Board of Directors

BOD meeting June 1, location Clayton Community Library

General Meeting

No General Meeting this month, Annual Picnic at The Morgan Ranch
June 8, Starts 1 pm, 6040 Morgan Territory Rd, Clayton, CA 94517

The Contra Costa Mineral and Gem Society was formed in
1950 to encourage the study of mineralogy, lapidary arts,
and field collections.

Visitors are welcome! Bring a friend!

Calendar of the Contra Costa Mineral & Gem Society

JUNE 2024							1-31-2024
SUN	MON	TUE	WED	THU	FRI	SAT	
						1 BOD- Library 10 am Officer comm	
2	3	4	5	6	7 Setup for cases at fair 7th-10th	8 CLUBPicnic @ Morgan Ranch Raffle.	
9	10 Club meeting is at Morgan Rn. 6-8-24	11	12	13	14	15 Alameda Fair Rock Painting Booth	
16 Alameda Fair Rock Painting Booth	17	18	19	20	21	22 Alameda Fair Rock Painting Booth	
23 Alameda Fair Rock Painting Booth	24	25 Newsletter reports due	26	27	28	29 Alameda Fair Rock Painting Booth	
30							

Holidays and Observances: 14: Flag Day, 16: Father's Day, 19: Juneteenth Wiki Calendar

JULY 2024							1-31-2024
SUN	MON	TUE	WED	THU	FRI	SAT	
	1	2	3	4	5	6 BOD-Location not set Alameda Fair Rock Painting Booth	
7 Alameda Fair Rock Painting Booth	8 Club- Location?	9 Fair case clean up	10	11	12	13	
14	15	16	17	18	19	20	
21	22	23	24	25 Newsletter reports due	26	27	
28	29	30	31				

Holidays and Observances: 4: Independence Day Wiki Calendar