



Club Notes



General Meeting: Sept. 17, 2013 7:30 PM

If your last name is **J-M** please bring snacks.

New Members: Unless otherwise stated, General Meetings are on the third with Tuesday of the month at the church at 7:30pm. You are invited and encouraged to attend! There is a silent auction and door prizes at every meeting.

Next Board Meeting: Monday, Sept. 9, 2013, 7:00 p.m. at the shop is the next Board Meeting.

Show Meeting: Thurs. August 29, 7 p.m. at the shop upstairs.



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MGSCV Petrograph -September 2013
Monthly Bulletin of the Mineral & Gem Society of Castro Valley, inc.

This publication is the bulletin of the Mineral and Gem Society of Castro Valley, Inc., a member of the California Federation of Mineralogical Societies, Inc., the American Federation of Mineralogical Societies and the North Bay Field Trip Association.

Bulletin Submission Policy

Submission deadline is the second Friday following the *General Meeting* (normally the second Wednesday of the month.) Anonymous contributions will not be considered for publication in the *Petrograph*; however, if requested at the time of submission, the contributor's name can be withheld. Members are encouraged to submit articles that may be of interest to the general membership. The bulletin editor reserves the right to edit any submitted articles or omit any submission from publication. Source must be cited for material quoted from other authors. Permission to reprint *Petrograph* articles is hereby granted provided properly cited.

2013 MGSCV Officers

Elected

President - Bonnie Andrade	President@mgscv.org	
Vice President - Mike Mc Bride	VP@mgscv.org	
Secretary - Sheryl Cooper	Secretary@mgscv.org	(510) 589-8858
Treasurer - Betty Milam	Treasurer@mgscv.org	
1 st Year Director - Michael Cox	Director1@mgscv.org	
2 nd Year Director - Jodi Minshall	Director2@mgscv.org	
3 rd Year Director - Norm Hodgson	Director3@mgscv.org	
Federation Director - Ron Hasemeyer	Federation@mgscv.org	
Shop Manager - Beth Farmer	ShopManager@mgscv.org	
2014 Show Chairman - Cathy Miller	ShowChair@mgscv.org">ShowChair@mgscv.org	
Membership - Tony Cooper	membership@mgscv.org	510-589-5292
Editor - Diana Cohoon	Editor@mgscv.org	
Past President - Ron Miller	pastpresident@mgscv.org	

Appointed

Scholarship Chair - Mary Howell	
Librarian - Mary Howell	
Historian - Jamie McDonald	
Purchasing Agent - Beth Farmer	
Education Coordinator - Shirley Buschke	
Field Trip Coordinator - Ron Hasemeyer	
Parliamentarian - Doc Buschke	
Reception/Hostess - Ann Vargas/Dan Gilson	
Sunshine Reporter - All members	
Door Prizes - Bonnie Andrade	
Web Master - Tony Cooper	webmaster@MGSCV.org



Publication Staff



✧Contributors: Shirley Buschke, Jodi Minshall, Betty Milam, Sheryl Cooper, Mary Howell, Mike McBride

Meeting Minutes

BOARD MEETING ON VACATION

GENEREAL MEETING ON VACATION



ROCK RUMBLES Sept, 2013 By Shirley Buschke

Susan Klass just returned from a vacation in Alaska. Upon return she had knee surgery; it must have been all of those marathon races she has been in. She is doing fine and is back faceting.

Libby Gadinsky of Alamo was cleaning out the family rocks, she gave preference to the Santa Clara Gem and Mineral club and . advantage and **Beth Farmer** brought back some of the things to our members. **Mark Montgomery** really found lots of Dinosaur bone.

Red dirt has been found in the center middle the earth, this is the same kind as found on Mars. This same earth is found in Australia where Opals are common, and Opals are common on Mars. There was once speculation that Australia was once covered

by sea. Does this mean Opals originally came from the sea?

Good new **Pat Rigor** is back home. A long way to recovery but being home always helps.

Mike Cox has been busy painting table tops, he could use some help. He said the cabinets need paint as well, how about some VOLUNTEERS step in and help!!! This shop belongs to all of us, and we all need to help with the up-keep not the same few All of the time. We have a lot of new members that are young and able to help. HOW ABOUT IT! Contact **Beth Farmer** or **Maggie Naylor**, or **Mike Cox** for info on how to sign up.

We had another successful Lost Wax Class; Diana Cohoon is an excellent teacher with lots of patience. The second part of the class will be on Sunday the 8th of September from 10:30 till 1:00 ?

It is a long and slow convalescence for **Jim Ewing**, he still can't taste things. He asked for some really hot barbeque sauce recently and could hardly taste it, despite the waiters warning that it was very HOT!!!

It is time to start thinking what you are going to make for Christmas. It doesn't have to be jewelry; you can make a jewel box, book ends, specimens on a stand, coasters, spheres, wind chimes, intarsia, lamp shade, carvings knives, etc. Use yojur

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imagination, just begin. There are lots of members in the club who can help you with any of your projects, just ask.

There lots of great shows coming up soon Santa Cruz, Monterey, Jade Cove, Contra Costa. Check out the petrograph for times and dates for these shows.

ANNOUNCEMENTS

We will be changing our Cab of the Month format at our General Meeting to a non-competition Show and Tell. Bring to the General Meeting whatever you would like to share with the club. You can display it however you want on our display table, wear it or surprise us with your presentation. We will allow time for anyone who wants to talk about what they brought in..... **Mike Mac Bride, VP**

SHOW SCHEDULES

Sequoia Gem & Mineral Society

Redwood City, Ca

Sept. 21, & 22nd 10-5pm daily

Community Activities Bldg.

1400 Roosevelt Ave

www.sgms.driftmine.com

Stockton Lapidary & Mineral Club

Lodi, Ca

Sept. 28 & 29 10-5pm daily

Lodi Grape Festival Grounds

413 East Lockford St.

Jerold Kyle 209-368-9411

jeroldkyle@yahoo.com

www.stocktonlapidary.com

Carmel Valley Gem & mineral Society

Monterey, Ca.

Sept. 28th & 29th; Sat. 10-6pm; Sun. 10-5pm

Monterey Fairgrounds

2004 Fairgrounds Rd.

Janis Rovetti 831-372-1311

Janis12@sbcglobe.net

www.cvgms.org

Santa Rosa Gem & Mineral Society

Santa Rosa, Ca

Sept. 28th & 29th; Sat. 10-6pm; Sun. 10-5pm

Wells Fargo Center

50 Mark West Springs Rd.

Jolene Coon 707- 849—9551

jolene@SRMGS.org

www.srmgs.org

El Dorado County Mineral & Gem Society

Placerville, Ca

Oct. 19-20th; 10-5pm daily

El Dorado County Fair Grounds

100 Placerville Drive

Arlene Williams 530-676-2472

info@rockandgemshow.org

www.rockandgemshow.org

www.eldoradomineralsandgems.org

Field Trips

Rockhound Field Trip Fanatics

Area 54 Panoche Hills, West Fresno County

September 14th ; 9-4:30

Meet @ Chevron Plaza @8:30 am, and

depart for area 54 @9am. There are 120

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acres of Jasper, Agate, Jade, Serpentine, Blue GF, and Chocolate Magnesite.

Contact Kris Rowe @

<http://rockhound-field-trips.ning.com>



GEM OF THE MONTH

Submitted by Diana Cohoon

Our gem is originally from Chicago. She got her Bachelor's degree in Chicago in accounting. She took a class in cabbing when she was 20, and a wax class that was offered for free.

She came here with her family 30 yrs. ago and they moved to Woodside. She went to St. Mary's college and got her masters in Global Stratigies. She is married and has two grown children. She is retired now and working on a start-up organization which is a non-profit. The company is working toward a fair trade certification process in Burma.

She has been a member of the Redwood City Sequoia club for two years. Unfortunately their club does not have extensive equipment like our club. She went to our show and got an application and was pleasantly surprised at the equipment and facility we have in Hayward. She is

currently taking faceting from **John Gullak** on Saturdays, and recently took the first class in lost wax with **Diana Cohoon**.

Can you guess how our gem is? **Peggy Lew!!**

BRAD SMITH BENCH TIPS



LAYOUT TOOLS

Dimensions on some features of a design can be fluid while others must be accurate for the design to work. When precision on a piece is important, good layout techniques are essential.

These are the tools that I rely upon to get holes in the right place, to achieve correct angles, and to cut pieces the correct length. I like crisp sharp lines to follow, so I often coat surfaces with a dark marker and scribe my layout lines onto the metal. A square makes quick work of checking right angles or marking where to cut, and the thin centerpunch helps me mark a place to drill holes exactly where I want them.

Finally, a good set of dividers is probably my favorite layout tool. They let me quickly mark a strip for cutting, swing an arc, and divide a line or curve into as many equal segments as I need. I keep at least one set of dividers in every toolbox.

INVENTORY RECORD

In an ideal world each of us has a complete pictorial record of all pieces of

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jewelry in our inventory. We use it for insurance. We use it as a record of what was sent out on consignment. We use it to remember which items we are taking to a show. And eventually, we use it as a record of what we have sold.

Unfortunately, we don't always have time to take good pictures for an inventory. In situations like this I've been able to make a quick record with the help of a color copier. Simply place a number of pieces face down on the glass and make a copy. The quality is more than sufficient for an accurate record.

More Bench Tips by Brad Smith are at [facebook.com/BenchTips/](https://www.facebook.com/BenchTips/)

or see the book "Bench Tips for Jewelry Making" on Amazon

KIDS KORNER

Deep Sea Mining

By: Elizabeth Bennette, 14 years old

In 1980, 1,220 metric tons of gold were mined worldwide, but in 2011 that number had increased to 2,500 metric tons (USGS). What caused this doubling in the amount of gold production? A CNN article on the composition of the iPhone may have the answer. While most people may not think about their smartphone as being a contributor to the increasing demand for precious metals, high tech devices like the iPhone contain a number of precious metals such as gold, platinum, silver, and copper. While the amounts may be relatively small, only .03 ounces of gold for example in the typical iPhone, these small numbers add up when you consider the number of iPhones

sold in the average year. In 2012, 125 million iPhones were sold (Lowensohn). If you factor in other high tech products such as flat screen televisions, laptops, desktop computers, and tablets which all contain varying amounts of precious metals, you begin to understand why the production of gold and other sought after metals has been on the rise. As a response to this increasing demand, mining companies are looking beyond traditional mining sites.

Since the 1800s to the early 2000s, most mining has been done in mountains and caves, but these reliable sources for precious metals have become depleted as worldwide demand has pushed mining companies to increase production levels. Recently, more companies are attempting to find new locations to harvest their minerals. The most recent site that has intrigued miners is the sea floor. Scientists have found that hydrothermal vents, openings on the seafloor that release hot gasses over 1,000 degrees Fahrenheit, also release a variety of minerals as well. A National Geographic article describes the quantity of untapped sea floor minerals as containing "as much as ten times the desirable minerals as a seam that's mined on land...you get gold concentrations up to 15 parts per million. On land, you'd mine at between one and five parts per million." Underwater mining businesses are realizing the potential of these mineral beds, and many have already begun to plan future mining projects.

Nautilus Minerals, a thriving underwater mining company, has a plan to send three

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different robots to the sea floor. One robot will cut the thick layer of ore from the floor. Another will suck up the deposits and pump them to the third machine. The last machine will drain the water from the material that has been pumped up, and send the rest of the collected minerals to a boat that will return to shore. This operation allows for very little rock movement, because the minerals are on the top of the seabed surface, which means that there are fewer carbon emissions and none of the animals or plants in that area will be directly moved in the process.

However, there have still been many questions raised about the long term results of mining seabeds. Not much is known when it comes to these vents and the seafloor ecosystem. The presence of vents was only verified in 1977, and because of the high pressure, not many scientists have been able to fully explore this area (NOAA). Researchers cannot predict what the effect of full scale mining would be on the hydrothermal vents or any of the other organisms on the seafloor. Environmental activist groups have already begun campaigns, fighting for more research to be done on these ecosystems before any mining is allowed. The Deep Sea Mining Campaign states on their website, "Scientific research into impacts is extremely limited and provides no assurance that the health of coastal communities and the fisheries on which they depend can be guaranteed." The potential hazardous effect of having these machines cultivate the seafloor is the introduction of highly acidic materials in

the ocean water. This byproduct could "acidify a whole reef" according to Maurice Tivey, a geologist who also believes it is too soon to begin full scale mining. The possible dangers of exposing fish and other sea life to acidic sediment could threaten the economies of nearby towns or cities, who rely on the sea for jobs and food.

Governments have taken notice of the arguments made by both mining companies and activist groups. They have enacted laws which require each interested mining company to go through a review process, verifying that their mining are not harmful to the underwater environment. Once they receive an approval, the mining company would be able to obtain a lease, allowing them to begin excavation. Though this law ensures that underwater mining projects will not directly damage seafloor ecosystems, the long term effects of underwater mining are not known. Even though deep sea mining may pose a threat, mining companies are willing to overlook this because of the promise that underwater mining holds.



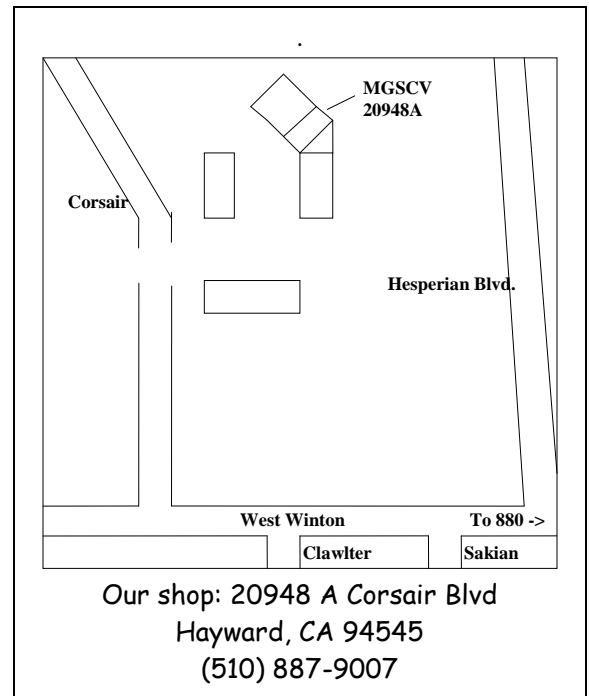
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Shop Schedule

(All shop session's members only)

MAP

- Monday** 10AM to 1PM, Lapidary
6PM to 9PM, Beginners only in lapidary
- Tuesday** 9:30AM to 12:30PM, need daytime supervisor
6PM to 9:00 PM, Lapidary,
- Wednesday** 9AM to 12:00PM, Lapidary
Library open 10AM to noon.
5:30 - 8:00 PM Lapidary
- Thursday** 10:00AM to 1:00 PM, Lapidary
7PM to 9 PM, Lapidary
- Friday** 9-1 PM Lapidary, Faceting (experienced only)
- Saturday** 9AM to 3PM, Faceting Class 9-12, Juniors,
w/supervisor's approval, lapidary
Library open 10AM to noon.
- Sunday** 9:30AM to 12:30PM, Lapidary



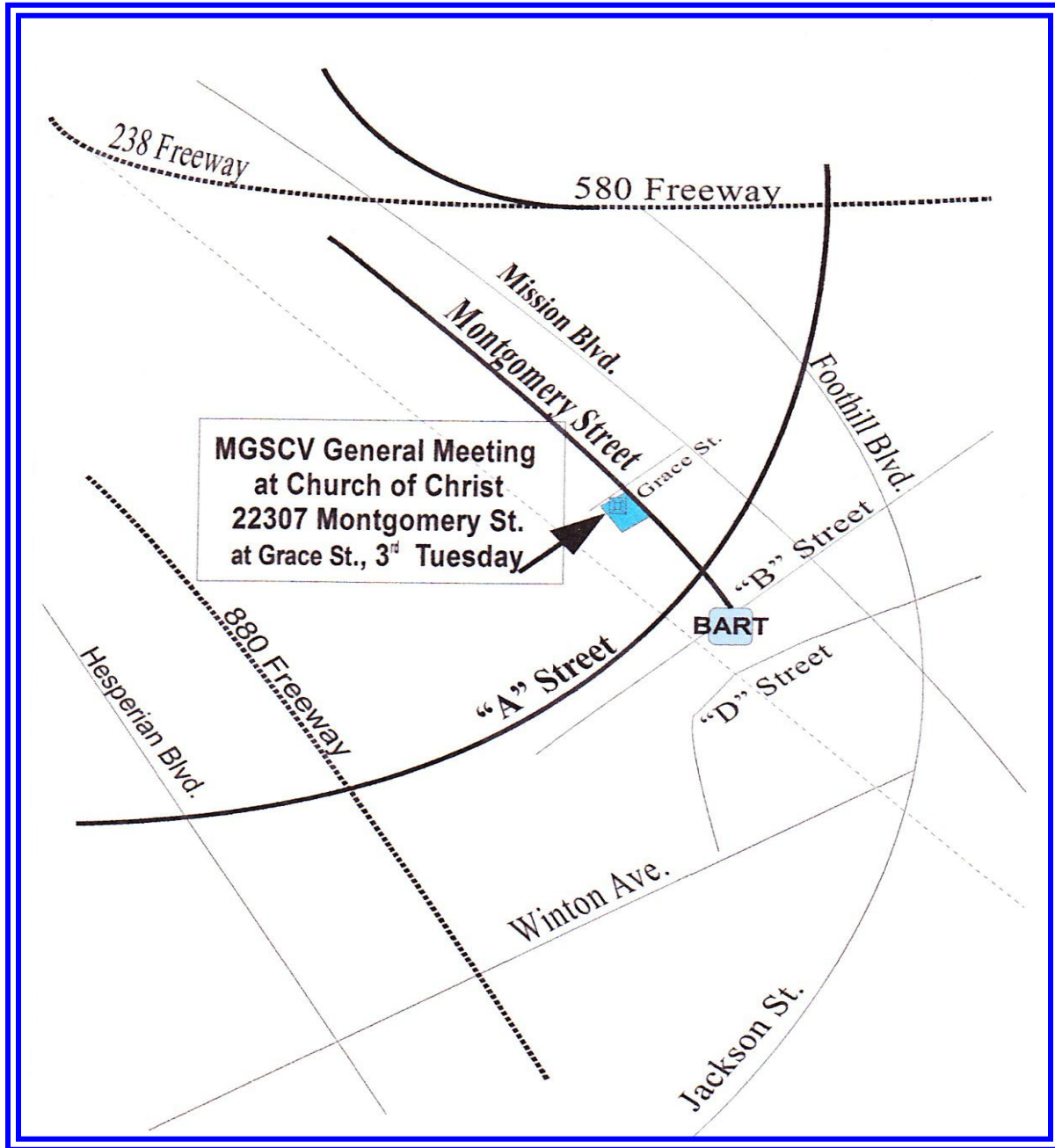
SHOP NOTICES:

The shop needs painting volunteers! See article under announcement by Maggie Naylor. Part of the privilege of using the shop, is to keep it clean and painted and need some new members to get involved!!!!

Website: www.mgscv.org
Email us at info@mgs

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From I 580: Take the A Street exit and go west, turn right on Montgomery Street and go to 22307 Montgomery Street.

From I 880: Take the A Street exit and go East. Turn left on Montgomery Street and go to 22307 Montgomery.

From Jackson Street: Go north on Mission Boulevard, turn left onto A Street, then right on Montgomery Street and go to 22307 Montgomery Street.

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Monthly Bulletin of the Mineral & Gem Society of Castro Valley, inc. Mineral & Gem Society of Castro Valley (MGSCV) Membership Application and Information



Membership is good for one calendar year from January 1st through December 31st. Please fill out and sign the application. Mail the completed form, a check for the dues **payable to MGSCV**, and a self-addressed, stamped envelope to - **MGSCV, Attn: Membership Chair, P.O. Box 2145, Castro Valley, CA 94546.**

Your membership is active upon receipt of your check and application. It will be processed and membership cards will be mailed to you within 4 weeks. Your email will be added to the list for the Petrograph, our newsletter. Your name will be added to the roster in the lobby at the workshop and in the drawing at the general meetings for cash prizes, if present.

We are a non-profit club whose sole purpose is the education of lapidary arts and geological sciences for all who are interested. **No products produced in the shop can be sold for profit.** All members should have or be familiar with the MGSCV Handbook. A copy is available for review in the club's lobby or one can be emailed to you by sending a request to info@mgscv.org.

Before any member may operate any equipment or take any class they must have completed an orientation and their first cabochon. **To schedule an orientation send an email to WorkShopManager@mgscv.org with your name, phone number, and a good time to call you.** During the orientation you will learn about the club and get a tour of the workshop. Monday evenings are reserved for beginners only.

Membership dues cover less than 10% of our annual operating costs. It is our annual show that funds the club, workshop and all activities. **A requirement of membership is that every member must work at the show for a minimum of 4 hours.** The show is always held the first full weekend of March, so mark your calendars. The show is fun to work and is the reason we have the best workshop/club in Northern California. Shop services such as rock sawing, casting, special classes (faceting, wire wrap, metal work, etc...) will not be available to members who do not work at the show.

Membership Chairperson

Type of Membership(s): (check all that apply) new membership renewal membership
 Single - \$35 Couple - \$60 Junior (11-17 with adult) - \$1 Junior (11-17 without adult) - \$5
 Associate - \$17.50 (former member living more than 100 miles away) Lifetime (voted in by the board)

After July 1st all new membership dues are half (½)

Name(s) (Please print all the names.)

Adults: _____

Juniors: _____

Address: _____

City: _____ State: _____ Zip: _____ Phone Number: _____

E-mail Address: _____

(Our monthly newsletter, the Petrograph, will be emailed to this address.)

Occupational Skills: _____

(Sometimes we are in need of advice and/or help in regards to electrical, plumbing, mechanical, clerical or other skills.)

Confidentiality: (check all that apply)

I do not want my address printed in the roster at the shop.

I do not want my phone number printed in the roster at the shop.

I do not want my email address printed in the roster at the shop. I agree with the By-laws and rules of the Mineral & Gem Society of Castro Valley (MGSCV).

Members Signatures: _____

APPLICATION FOR OUR CLUB BADGE PURCHASE

The badges will be Blue background with gold lettering. They are 2x3". Please include your name (as it will appear on the badge), address, contact numbers and enclose a check in the amount of \$8.64 Make the checks payable to Rocky Five, and mail it to Rocky Five 5705 Begonia Dr. San Jose, Ca 95124-6535 email: rockyfiv@aol.com We encourage all members to wear their badges at our show, and when you visit other shows, to show our support of their club.

Name _____

Address _____

Phone Number _____

Email _____

Amount Enclosed _____

Number of Badges _____

Signature _____