



Club Notes



General Meeting: Tuesday March 20th, 7:30 P.M.
at Church of Christ, 22307 Montgomery Ave.,
Hayward, 94541

Program:

March Refreshments: Members with a last name
starting with I-L please bring snacks.

New Members: Unless otherwise stated, *General*
Meetings are on the third 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, March 13th, 7:00 p.m. at the shop is the
next Board Meeting.

Show Meeting: April 5th, 7:00 pm at the shop

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MGSCV Petrograph - March 2012
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.

2012 MGSCV Officers

Elected

President - Ron Miller	President@mgscv.org	
Vice President - Jim Ewing	VP@mgscv.org	
Secretary - Sheryl Cooper	Secretary@mgscv.org	(510) 589-8858
Treasurer - Betty Milam	Treasurer@mgscv.org	
1 st Year Director - Mike McBride	Director1@mgscv.org	
2 nd Year Director - Norm Hodgson	Director2@mgscv.org	
3 rd Year Director - Mary Jane Holmes	Director3@mgscv.org	
Federation Director - Ron Hasemeyer	Federation@mgscv.org	
Shop Manager - Beth Farmer	ShopManager@mgscv.org	
2012 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 - Bonnie Andrade	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 -Feb. 13th, 2012

Submitted by Sheryl Cooper

Ron Miller called the meeting to order at 7:15 pm. In attendance were Ron Miller, Betty Milam, Sheryl Cooper, Bonnie Andrade, Mike McBride, Cathy Miller, and Mary Jane Holmes.

Minutes: Betty Milam moved to accept the January board minutes as printed in the Petrograph. Beth Farmer seconded the motion and it was carried unanimously.

Treasurer: We reviewed the January treasurer's report from Betty Milam. Mary Jane Holmes moved to accept the report. Mike McBride seconded the motion and it was carried unanimously.

Shop: Beth Farmer is waiting for the last faceting machine head to come back then the update will be complete. Once the part comes in then the maintenance will be done on all the machines. She ordered and received a new torch head. The fabrication area will be the next area to work on.

Show: Cathy Miller says the dealer signs are missing, but she has found someone to make all 37 signs for \$74. Trucks and vans are needed at the shop on Sunday the 26th to move some items to the Pavilion. Ron checked into the ATM machine and found out it will be no charge to us. They drop it off Friday morning and pick it up Sunday night. But they want to anchor it to the floor. He will talk to the Pavilion and see what they say. The programs are ready to print. The next show meeting will be February 23rd.

Membership: We have 99 members. 29 are lifetime members leaving 70 paying members.

The meeting adjourned at 8:00 pm.

Submitted by Sheryl Cooper

GENERAL MEETING -FEB.21ST, 2012

Submitted by Sheryl Cooper

Ron Miller called the meeting to order at 7:40 pm. We had 23 members and 4 guests present.

Minutes: Shirley Buschke moved to accept the January minutes as printed in the Petrograph. Lisa Lafferty seconded the motion and it carried unanimously.

Scholarships: Mary Howell introduced our 2012 scholarship winners Miguel Lima and Megan Riccobono from California State University East Bay. Miguel is from Piedmont and served in the Air Force for two years. He found geology and wants to study faults and earthquakes. Megan is from Redwood City and went to school in Spokane for awhile. She wants to be a mineralogist.

Program: Faults and Earthquakes in the Bay Area by Mitchell S. Craig Department of Earth and Environmental Sciences at California State University East Bay
Professor Craig thanked the society for all of our support for the students over the

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many years. He has been a professor for nine years at CSU East Bay.

The 1868 Hayward earthquake was estimated at magnitude 7.0. The 1906 San Francisco earthquake was magnitude 7.8 with 300 deaths and \$500 million in property damage. The 1989 Loma Prieta earthquake was magnitude 6.9 with 63 deaths and \$6 - \$10 billion in property damage. The 1994 Northridge earthquake was magnitude 6.7 with 57 deaths and \$20 - \$40 billion in property damage. A fault is considered active if there was activity in the last 10,000 years. Santa Rosa felt a lot of activity from the 1906 quake. The focus is the actual location of the earthquake at depth. The epicenter is the point on Earth's surface directly above the focus. He talked about different scales used - Richter Magnitude, Moment Magnitude and Earthquake magnitude. Scientists now also use Modified Mercalli Intensity (MMI). He talked about Paleoseismology, the study of prehistoric earthquakes. He showed us a lot of pictures describing the effects and showing the history of earthquakes in and around the Bay Area.

Show: Cathy Miller reports the show setup starts Sunday at the shop. We will load items into trucks and vans to be taken to the Pavilion. There will be sign in sheets for setup and during the show. Reminder - no baked goods can be sold at the show. Paul Kenny is Food Safety Certified and will be looking out for us in the kitchen. We need to watch that we don't drag items across the floors at the Pavilion. The security

check in will be in one of the vintage buildings. No animals are allowed on the premises according to the Pavilion agreement this year.

Editor: Diana Cohoon reports the March Petrograph will be published after the show.

Library: Mary Howell says the library is doing fine.

Membership: Tony Cooper says we have 102 current members and is expecting several applications during the show.

Juniors: Mark Montgomery says no new juniors.

Education: Shirley Buschke says nothing until after the show. She let us know two schools are walking to the show. We are expecting around 400 students.

Drawings: The member drawing was William West, but he was not present to collect the money.

Guest Tickets - Judith, Mitchell Craig, Megan Riccobono and Miguel Lima

Attending Member Tickets - George Kozakura, Shirley Buschke, Maggie Naylor, Barbara Ganitch, Mark Montgomery, Mike McBride, Lisa Lafferty, Sheryl Cooper, Chrissy Cody and Anitra Raju

The meeting adjourned at 9:10 pm.

ANNOUNCEMENTS

The 2012 show is finished. All the tables, benches, spinning wheels, signs and

more have been stored away until next year. You made a great team. It was a pleasure working with all. Attendance was down this year, but we were in competition with the good weather. Those who did come enjoyed the visit. From the school children Friday morning, to the Raffle drawing Sunday evening, it was a fun event. Congratulate yourselves for a job well done! Mark your calendars now for the 2013 show on March 1, 2, and 3.

Betty Milam, Treasurer

The shop cleanup is April 28th, and the open house is April 29th. Members can do a tailgate sale and bring equipment, and gems and other items that they have for sale. You can also bring anyone that might be interested in what we do and what we are all about(perhaps even join the club)!

LOCKERS...LOCKERS...LOCKERS !

Time to renew the rent on your locker, Only \$5 per year. Leave your payment in the safe at the shop or mail it to the MGSCV, P.O. Box 2145, C.V. CA 94546 along with your membership fee. \$5 per year for the convenience of a locker is a real bargain. Need more than 1 locker? Would like a locker of your own? No problem. **Beth Farmer** or **Mark Montgomery** will help you find an available locker. A real deal...



ROCK RUMBLES Mar. 2012

By Shirley Buschke

With the help of **John Gullak, Diana Cohoon, Shirley Buschke** and caster **Jim**

Ewing, Claude Hawkins has a gold nugget ring, pretty classy!

Good to hear the **Cathy Panossa** is on the road back to good health. She worked skirting and demonstrating for the show. Norm Hodges says he is doing better, he is very busy with physical therapy, and Bev Ewing says she is doing better.

We have had enough sick people this year. But there is sad news, too, Tammy Ford, wife of Tom passed away recently

We had another great program at our regular meeting last month. **Dr. Craig Mitchell** told us about earth quake faults. He explained some of the newer methods of determining intensity of quakes. The Richter scale is the one we are most familiar with, also an interesting one is mapping based in intensity of shaking. Modern digital mapping allows the geophysicist to show possible trouble spots. Colors make it easy to understand. His comment on utilizing earthquake studies techniques to interpret nation's use of atomic armament was interesting. Dr. Mitchell is a geophysicist at Cal State Hayward. He brought with him the two recipients of our scholarships. And these kids signed up to help us at the show. Thanks!!!

Val and Austin McThorn moved to Hawaii a few years ago. Austin is a faceter, and he sent us a stone for our auction. He and Val enjoyed this year's show. This was their first visit to the mainland for awhile.

We are enjoying our new meeting site. Hope more members join us. We always

have a silent auction and lately some items from our shop store for sale.

The turnout of helpers to get ready for the show was terrific. It was great to see new members pitch in. Did you know that **John Gullak's** daughter **Cheryl** comes from Canada to be with her dad and to work at the show? Looking around in the big hall, it is fascinating to see the ingenuity that went into designing the show space. Our new chairperson, **Cathy Miller** has done a terrific job. Good to see members who have moved away. Monte Cook, our favorite dish washer at past shows, was here from Rossmore. And Kurt Shultz was busy demonstrating his silver chains. We got several renewals of membership. **Snooky Flowers**, our saxophonist, and even Jane Panico showed up for awhile. She's still feeling the effects of her car accident.. **Buzz Odom** says he is well enough to come back to the fold. I greeted several others but forgot to write down their names, it so nice to see long time friends again. Thank you, all you workers for making the show a success!

Doc Buschke and **Bonnie Andrade** have been asked to exhibit at the Santa Clara show held in April.

The winner of the opal pendant was about to walk out of the door when his name was called. His wife, waiting in the car, was doubly surprised and thrilled.



Diana Cohoon had the responsibility of handling the raffle and she did a great job. Kudoos also to Secretary Sheryl Cooper for her work on the auction, thank you to all the contributors and buyers. Sheryl and Diane will report the financial results at the monthly meeting.

Don't forget clean up day is Saturday April 28, bring your old rags, the shop is dirty. Then on Sunday we will have Open House. Bring finger goodies to share. Many who came to the show come and decide to join.



SHOW SCHEDULES

Victor Valley Gem and Mineral Club

"36th annual outdoor tailgate"

March 9th, 10th & 11th 9am-5pm daily

Stoddard Wells Road (12 miles East of I-15), 760-243-2330

Info. & map on website www.vvgmc.org

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Salinas Valley Rock and Gem

March 10th & 11th 10-5pm daily
Veteran's hall, Spreckels, Ca 5th & Llano
sts. Robert Braun 831-771-2089

Vallejo Gem & Mineral Society

March 17-18th, 10-5pm daily
Solano county fairgrounds, Mc Cormack hall
Dan Wolke 707-644-9764
www.vallejogemandmineral.com

Angels Camp, Ca

Calaveras Gem and Mineral Society

March 24th & 25th, Sat.10-5pm; Sun. 10-4pm
Calaveras county fairgrounds, 101 Frog
Town rd. Tak Iwata 209-928-5579
www.calaverasgemandmineral.org

Roseville Rock Rollers

March 24th & 25th, Sat. 10-5pm, Sun. 10-
4pm Placer County Fairgrounds,(Roseville)
800 All American city blvd.(off
Washington)
Gloria Marie 916-216-1114
www.rockrollers.com

Paradise Gem & Mineral Society

April 7th & 8th Sat. 9-5pm, Sun.9-4pm
Elks Lodge 6309 Clark Rd.
Manuel Garcia 530-877-7324
www.ParadiseGem.org

Santa Clara Valley Gem & Mineral Society

San Jose, Ca

April 20, 1, & 22nd Fri. 9-5pm, Sat & Sun.
10-5pm
Santa Clara County Fairgrounds
344 Tully Rd., San Jose

408-265-1422

info@scvms.org

Santa Cruz Mineral & Gem Society

April & 28th & 29th 10-5pm daily
Santa Cruz Civic Auditorium
307 Church St. (corner of Church & Center)
Dean Welder 408-353-2675

Lone Pine Gem & Mineral Society

Bishop, Ca

May 4th, 5th, & 6th, Fri. 6-9pm, Sat.9:30-
5pm, Sun.9:30-3pm
Tri County fairgrounds
Corner of Sierra St. & Fair Dr.
Francee Graham 760-876-4319

Francee@gnet.com

www.scmgs.org

Reno Gem & Mineral Society

May 12th & 13th Sat.10-5pm, Sun. 10-4pm
Reno Livestock Events Center
1350 North Wells Avenue
John Peterson 775-849-1522
www.renorockhounds.com

CFMS Field Trip

April 5th through April 8th
Topaz Mt. and Dugway Geode Beds,
Northwest Utah
Info: www.cfmsinc.org.

March Bench Tips

Submitted with permission of Brad Smith
SHARP KNIVES FOR CUTTING MOLDS

Cutting molds is easier and more precise with a sharp blade. A new Xacto blade is sufficient for cutting RTV molds but is usually not sharp enough for vulcanized rubber. For that it's best to use scalpel blades available from most jewelry supply companies. The #11 blade is triangle shaped, and the #12 is hawksbill shaped. I find the hawksbill is particularly nice for cutting the registration keys of the mold.



GEM OF THE MONTH

Back in 1972 he took his family on a vacation trip to Oregon. While there they were fascinated by the rocks and managed quite a collection. Kids picked up everything in sight. So you arrive home and what do you do with them? Someone told him there was a rock club in the area and maybe he could join them and learn the names of what he brought home and maybe do something with the rocks. At that time

our club was great on field trips. Alas, the BLM has put a stop to almost all collecting. No one is restricted to a few sites or to pay sites.

Our gem started making cabs, like all beginners, and gradually mastered just about all lapidary skills. I don't think he has done intarsia. He soon found himself teaching others and has been doing that ever since. He also started doing electrical work at Centennial Hall soon after joining and has been active in that job ever since. He no longer can climb the ladders but he can direct the young ones. His kids were junior members until high school activities and life took over but they are back again. His grandchildren are following the same pattern. School gets in the way. His wife tried cabbing but wasn't sold. But she is thinking of beading.

Our gem has been field trip chairman, saw room supervisor, vice president and president. He also has another hobby-- bonsai and he often brings in examples for us to enjoy.

Our gem has no favorite stone, probably "the one I'm working on at the time." He says he has lots of finished stones with no place to go so maybe it is time to restart wax work or fabrication. Currently he is teaching faceting, some beginners and doing our casting. So now you know our gem is **Jim Ewing.**

I was surprised to find out that Jim became a member before his father, Judge joined because his wife said after he retired he had to get out of her hair.

Judge also became expert in all fields, He also did casting



POLISHING STONES

Everyone seems to know when a stone has a perfect polish, but scientists still argue about why a stone reaches a polish. Recently because of the proliferation of optical instruments, polishing has been studied. Most work has been with glass or synthetic stones.

There are three theories proposed; wear, flow, and chemical. Glass is not a crystal. It is a fluid which is hard to understand. It sure feels solid. At room temperature it becomes a solid. One need not worry about temperature, light diffusion in glass because it is the same in all directions. It is mostly silica so silicon gems should react the same way.

The wear theory maintains that if the specimen is abraded with smaller and smaller grains, a polish will result. That's why you choose grit by size. In the flow theory the material actually flows and fills in all the voids until the surface is no longer irregular.

The chemical theory says that reactions occur in the space between the specimen and the lap polisher, which dissolves surface or alters the substance resulting in a sleek polish. The first idea is easy to comprehend. And the thought is that

molecules are held by weak bonds and therefore break and flow slipping and rebonding as it reheals the damage. Some suggest that water used in cooling, effects chemically and sometime acid such as lemon juice works as well. Specific polishes are recommended for some stones. Is this because of chemical activity?

Printed with permission
Brad Smith Bench Tips

METAL CLAY

By Shirley Buschke

Because of the high cost of the product, most people are not interested in metal clay. This product is NOT like the clay many of our members are now using.

Metal clay was developed in Japan. It consists of tiny metal particles of silver or gold held together by an organic binder. The proportion of water is critical to the consistency of the PMC. Minute drops of water can be added to the clay but once it dries, it is ready to be fired.

The model will shrink about 880% of the original. It is not recommended for applications that require high tensile strength such as findings, chains and settings. The clay comes wrapped in plastic and should be kept in an airtight container. Shelf life for metal clay is about a year. The metal can be reclaimed in the traditional manner if it dries out.

Work on a sheet of plastic and plan how much you need at a time. Fingers or simple tools are adequate. Coat your fingers with olive oil so the clay does not stick to you. You may roll out sheets or roll into a snake.

Design your jewelry ahead of time. You may add items to the clay before baking that can take the heat. Shrinkage can hold the item in place, but allow some room so it doesn't over shrink.

Firing takes place at 1650 F for silver and 1600-1800 for gold and platinum at 2900. To avoid cracking, air cool the items, do not quench them. Be sure your item is completely dry before firing it. Polish, solder, etc as needed.

Shop Notices

From: Beth Farmer

Our shop expense budget is very modest, but I try to upgrade equipment or buy something new every year. John and Jim do an excellent job keeping consumables replaced in the faceting room for very modest costs. However, our Facetron machines haven't had maintenance performed by the manufacturer for at least 10 years that I know of. I contacted Jarvi, who makes Facetron machines to arrange for rebuilding the heads. They urged us to convert our machines over to the new standard, using a dial indicator replacing the old strain gauge. I was hesitant because of the cost of converting 5 machines, but they offered us a special price to do the conversion.

That work is complete and the machines are in use. The faceting classes love the converted machines! John is buying a few more laps and Jim is replacing a few of the machines "clockwise- counterclockwise" switches.

If you have been thinking about learning how to facet stones, now is the time to learn!



Here are a few of the websites I look through for help with my projects. You might find them useful!

uTube.com

Ganoskin.com

stumbleupon.com

RioGrande.com (Good for stuff to buy)

thunderbirdsupply.com (same as above)

lapidarytool.com (my Chinese contact)

Happy hunting!



Aquamarine

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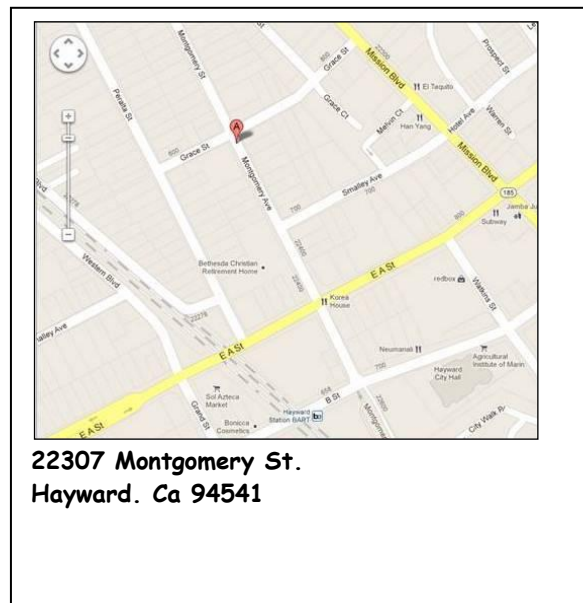
Shop Schedule (All shop sessions members only)

- Monday** 10AM to 1PM, Lapidary
6PM to 9PM, Beginners only
in lapidary, Faceting (no beginners)
- Tuesday** 9:30AM to 12:30PM, need daytime supervisor
6PM to 9:00 PM, Lapidary,
- Wednesday** 9AM to 12:00PM, Lapidary, beading,
Faceting, Library open 10AM to noon.
6PM to 9PM, Lapidary
- Thursday** 10:00AM to 1:00PM, Lapidary
5PM to 9PM, Lapidary, faceting (no beginners)
- Friday** Need Daytime and Night Supervisors!
Temporarily closed
- Saturday** 9AM to 3PM, Faceting Class 9-12, Juniors,
Adults w/supervisor's approval
Library open 10AM to noon.
- Sunday** 9:30AM to 12:30PM, Lapidary

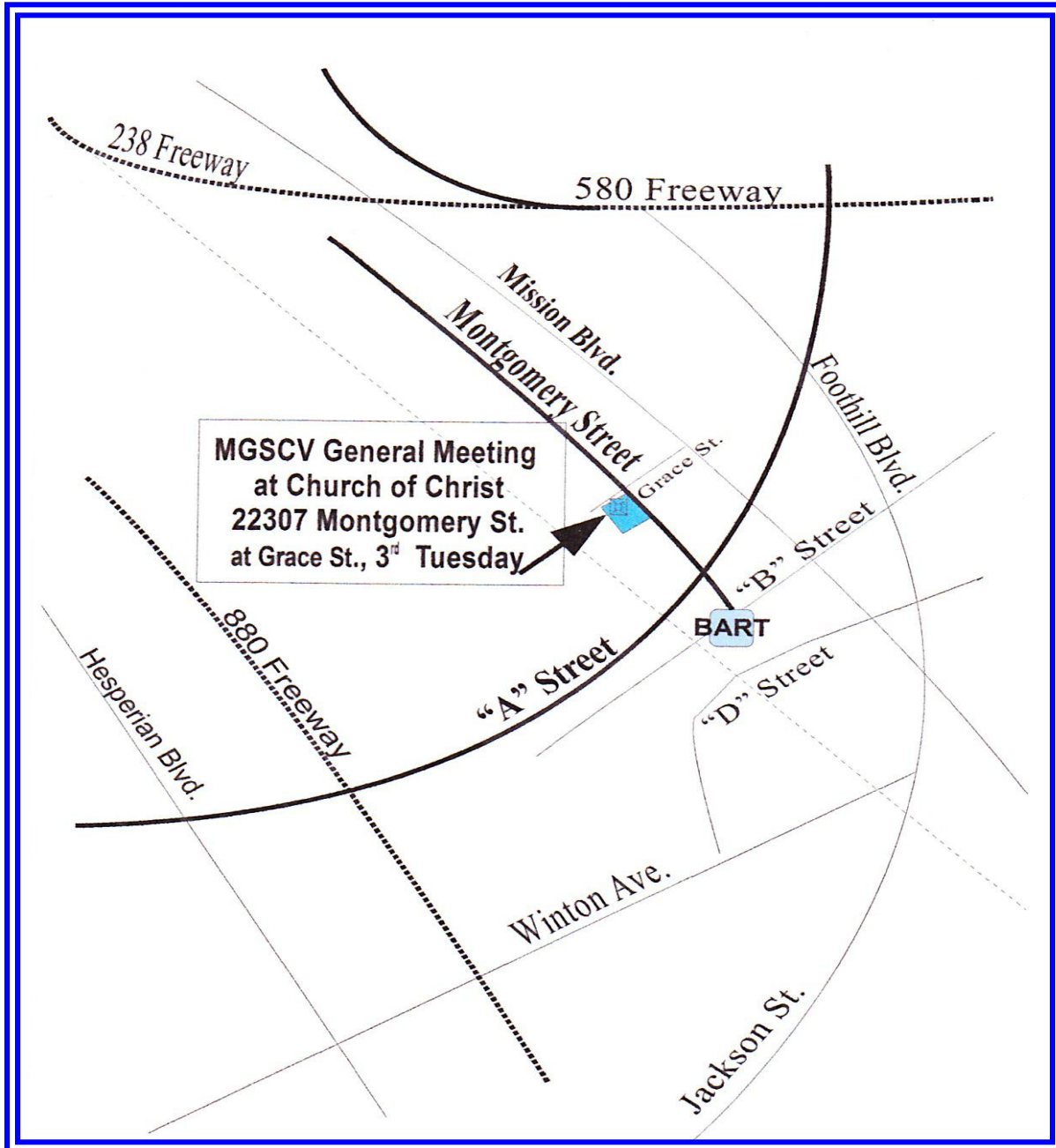
MAPS



Email us at info@mgscv.org



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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. Mail to - MGSCV, Attn: Membership Chair, P.O. Box 2145, Castro Valley, CA 94546

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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: _____