



Monthly Bulletin of the Mineral & Gem Society of Castro Valley

March 2010

General Meeting:

Wednesday March 10, 7:30 P.M. at Mt. Eden Presbyterian Church, 26236 Adrian Ave, Hayward (Next to Chabot College, behind Burger King). See map on back cover.

Program:

- **March Refreshments: R - Z**

New Members: Unless otherwise stated, General Meetings are on the second Wednesday of the month at the church at 7:30 p.m. You are invited and encouraged to attend! There is a silent action and door prizes at every meeting.

Next Board Meeting:

Has been cancelled. ~~Monday, March 8, 7:00 p.m.~~
at the shop.

- **Shop will be closed on Tuesday eve. March 9**
- **We Need a Sunday Supervisor, consider volunteering for 4 hours.**

Rock and Gem Show March 5, 6, 7, 2010

Newark Pavilion

Corner of Thornton Ave & Cherry St - Newark, CA

Directions to the new location on Page

New Member? Not getting the Petrograph every month?

Email: info@mgscv.org !

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MINERAL AND GEM SOCIETY OF CASTRO VALLEY, INC. PETROGRAPH

This 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 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, the contributor's name will be withheld from the published material. Members are encouraged to submit articles of various types that may be of interest to the general membership. The editor reserves the right to omit submissions from publication. Proper credit must be cited for material from any other source. Permission to reprint Petrograph articles is hereby granted provided all credit is given.

Publication Staff

Typists: Shirley Buschke, Sheryl Cooper, Betty Milam, Jane Panico
✧ *Labels, Assembly and Mailing:* Eloise Murata-Rudiger

February Board Meeting

President Ron Miller called the meeting to order at 7:05 pm. In attendance were **Ron Miller, Sheryl Cooper, Betty Milam, Mary Jane Holmes, Beth Farmer, Larry Ham, Bonnie Andrade, and Jane Panico.**

January Board Meeting Minutes:

Jane Panico moved to accept the January minutes as printed. **Bonnie Andrade** seconded the motion; it was unanimously carried.

Treasurer's Report: **Betty Milam**

Betty presented the treasurer's report for January. **Jane Panico** moved to accept the treasurer's report. **Beth Farmer** seconded the motion; it was unanimously carried.

Shop Manager: **Beth Farmer**

She found a supplier for grit. One of the saws needs some work.

Show Chairman: **Larry Ham**

Everything is coming along. There will be a few last minute items that always come up.

Scholarship: **Mary Howell**

This is the month we award two scholarships at the general meeting.

New Business:

Third party ads in the Petrograph - There was a concern about non-member/third-party ads being placed in the Petrograph. It has been discussed in the past about charging for these ads so no favoritism is being shown. Notices are allowed to be posted at the shop. **Larry Ham** made a motion to not allow third-party/non-member ads to be placed in the Petrograph, but they may be posted at the shop for everyone to see. **Beth Farmer** seconded the motion. It was carried with 1 abstention.

Jane informed us about members having problems getting their emailed Petrograph due to the size of the newsletter. The next issue will be a link to the website so members can open it.

Announcement:

Gerald Perko has volunteered to open the shop on Thursday mornings.

The March Board meeting has been cancelled.

The meeting was adjourned at 7:40 pm.

Submitted by Sheryl Cooper



February General Meeting

President Ron Miller called the meeting to order at 7:35 pm. We had five guests - **Bruce Pauly, our speaker, Shannon Martin and Erik Johnson, the scholarship winners, Jim Allen, and Jeff Seitz.** There were 20 members in attendance.

Scholarship Presentation: **Mary Howell**

Mary introduced **Shannon Martin and Erik Johnson.** They came forward and told us a little about themselves. **Mary** then presented them with their scholarships.

Program Chairman: **Karl Churchill**

The program was "A Field Trip to Surtsey" by **Bruce Pauly**, with CSUEB. Surtsey is a new volcanic tuff cone that was discovered by fishermen in 1967 off the coast of Iceland. It is about 2-3 kilometers wide now. Bruce had some wonderful pictures of the creation of Surtsey from a book that was published. The next youngest island is about 200 years old. It took him over two years to get permission to visit Surtsey. He was granted 8 hours on the island. An Iceland Coast Guard helicopter dropped off **Bruce** and his team. It was foggy and sprinkling before they left. They had no communication off the island. The only things added were a helicopter pad, hut, and a platform toward the top of the cone. The layers of the eruptions are still very visible and they found steam vents. They collected about 15 lbs. of samples from several sites to take back with them. Fortunately, the helicopter came back for them. Bruce showed us several thin sections of the samples at varying magnification.

Show Chairman: **Larry Ham**

Sunday, February 28 is truck-loading day at the shop. We will need a lot of help on **Wednesday, March 3** to setup Hall 1. **Sunday, March 7** the truck will be loaded after the show. **Monday, March 8** the truck needs to be unloaded at the shop. Lots of security is needed. Don't forget to bring cakes, cookies, brownies, pies, etc. to the show on Friday, Saturday and Sunday.

February General Meeting *(continued)*

Librarian: Mary Howell

Bring books and magazines for sale to the show.

Membership: Tony Cooper

The membership cards are being printed and will be mailed out soon.

Field Trip Coordinator\Federation: Ron Hasemeyer

Information on upcoming shows and field trips are posted in the binder by the shop door.

Education: Shirley Buschke

Classes are available. Some of the prices have gone up. The cost for casting has doubled. Gold plating is now \$1.00. On Wednesdays there is polymer clay being offered.

New Business/Announcements:

Betty modeled the opal pendant created for the show raffle. The raffle tickets are available through **Doc** to sell.

January Meeting Minutes:

Karl Churchill moved to accept the January minutes as printed. **Mark Montgomery** seconded the motion; it was unanimously carried.

Drawing Winners:

Membership Drawing: **Andy Mollnardi** was not present.

Guest Tickets: **Shannon Martin, Erik Johnson, Bruce Pauly, and Jeff Seitz**

Members Tickets: **Shirley Buschke, Betty Milam, Doc Buschke, Niki Churchill, Ann Vargas, George Kozakura, Delores, Barnes, and Karl Churchill.** Congratulations to the February winners.

The next general meeting will be March 10th at 7:30pm.

The meeting was adjourned at 9:30 pm.

EARTH SCIENCE NEWS

-*Shirley Buschke*

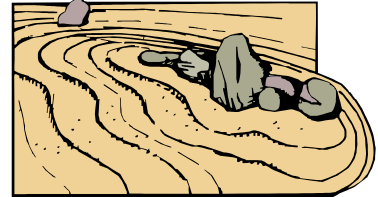
Telecommunication cables may someday predict a tsunami is on the way. Although there is barely a ripple on the surface of the ocean, electromagnetic waves are created below the surface and since seawater can transmit these waves, movement can contact the communication cables and give a warning that an earthquake is in the making and

that a tsunami is on the way.

Recent studies in the midwest seem to indicate that temperatures have lowered and rainfall has increased since farmers began irrigation in the 30's. This area is not following the sequence of global warming.

Rock Rumbles

-*Shirley Buschke*
February 2010



Our show this year will be at the **Newark Pavilion** at the **corner of Thornton Ave and Cherry Street**. Several buildings are located on the site. There is lots of parking. **The main "ballroom" will have dealers and the fossil display. The building just off Cherry where they have the Rotary crab feed will house dealers and the cafe. The mineral display and auction will be held in the building backing the houses on Arden Street. The spin a wheel will be in a tent. Remember we need ALL the help we can get. And Annemarie's admonition--BRING PIES, CAKES, COOKIES'**

You should have received a phone call to sign you up for service hours. However, don't get annoyed when you arrive if you are asked to serve somewhere else where the need is urgent. We aim to please but sometimes you have to please the person in charge.

Jim Eweing has really been busy on electric work. **Beth Farmer** and **Lyle Schaefer** made cement casks with hooks to hold down the tent. Larry Ham has just about lived at the shop getting things ready.

John Gullak is out of the hospital after his bout with pneumonia and will be faceting at the show. **Diane Adams-Cahoon and husband** made trips to the emergency room as has **Mary Jane Holmes** but all are well again.

Had a nice visit with a friend returning from Tucson. He said the crowd seemed larger than last year. He bought red coral mainly. We have been getting a newsletter from AGTA and much of it covered attempts made to be specific in the kind of enhancements used. How do you describe resin, oil, glass treatments? Pearls in all shapes and colors were available. Expensive stuff not selling too well.

Excellent program at our last meeting. The

Rock Rumbles *(continued)*

discussion was on the origin of volcanoes with the emphasis on Surtsey off Iceland. Our speaker,

Bruce Pauly from Cal State East Bay, was allowed 8 hours to do his collecting on the island. He said much work is now being done with under water rovers in the eastern Pacific. So maybe soon there may be more Hawaiian Islands?

Niki Churchill is busy teaching beading at the senior center in Patterson. **She and Karl**, program chairman, come all the way from Patterson for the meetings and to work at the show. Seems some of you local people could make it as far as Hayward. The programs have been excellent. Two students received their scholarship awards. Check the minutes to find out their names.

I visited a school in Hayward and three classes had 30 kids and the fourth one had 35.

There really wasn't enough room in the 35-student classroom. Remember these classes were built under special financing years ago that were supposed to hold 24 students. But kids were great.

Somebody forgot to sign in to get credit for refreshments at the last meeting.

There were 5 dishes but four signups--**Beth, Doc, Mary Jane Holmes and George Kozukura.**

Metalsmithing: *Annealing or Softening Metal* -Jane Panico

I know when I first started in silversmithing I was confused about how to make silver more manageable or bendable. I knew you had to heat it to make it softer, but I really didn't understand the procedure. I work with .999 fine silver bezel & sterling silver sheet. When I heated the bezel, I usually had a melt down. After I did some research, I realized why I had almost constant meltdowns. Well, I found the answer!

First, when you want to start annealing a piece of metal, or a bezel to make it go around a stone easier and hold its shape you need to heat the entire piece with a dull flame. The larger/thicker your piece the larger the flame you will need. Sometimes dimming the lights help because you need to be able to see the metal glow a dull red color (for silver). If you get it too hot past that = melt down.

If you are going to anneal wire, form it into a coil loosely and use an iron wire to keep it in the coil. Heat the coil evenly by moving the flame about the coil. If you stay in one spot too long = melt down.

If you're going to anneal a dome of metal (commonly made by dapping tools) you must heat the dome from the top of the dome so the flame moves down the sides. If you heat the dome from underneath it, the heat collects under the concave and will alter/melt the dome.

If annealing a bezel wire you must place the bezel on a firebrick. I only anneal what I will use for an item, not all of my stock. I then use a small dull flame to heat over the length of the bezel a few times. I make sure the flame does not get too close = melt down.

After you anneal anything you must let the item sit in the air and let it cool to a grey color. Once its grey, you can put the annealed item in the pickle pot to clean it up (oxides on the surface) and make sure it's cool. When you heat up a piece of metal, the molecules that make up that metal start to spread apart. That occurrence is what makes the metal more malleable, bendable or softer. If you hammer a piece of annealed metal or burnish it with metal (steel) it will harden a little bit.

If you work with .925 silver you need to heat the metal up to a light red color and put in the pickle pot. If you were working with any colored golds, you would heat to a dull red and quench in alcohol. If you were working with copper, you would heat to a brighter red color and place it the pickle pot when cooled down.

When you start this process you might have a few more melt downs, but sooner rather than later, you will experience the right way to anneal the metal you're working on and know when you have heated it enough.

Next month: Having Trouble Making Designs for your Jewelry?

BAKELITE JEWELRY -Shirley Buschke

In the 1920's and 1930's scientists learned to develop plastics from many substances including urea and cellulose acetate. The most important was a phenol resin later called Bakelite. Today bracelets made of this substance command huge prices as "antiques". Many looked like amber and ivory. The material could be tinted and carved after being cast. Manufacturers made tubes, sheets and rods that could be manipulated into bangles, pins, beads etc.

The material was polished by tumbling and buffed. Hand carving can be determined by studying the grooves. Many buttons were created.

Soon lithographing, lamination and stamping followed. Even inlaying was done. This inexpensive jewelry became very popular and even Paris, by

Bakelite Jewelry *(continued)*

way of Coco Chanel, who gave this new substance its blessing. Society was also changing. Women were entering the work place and readymade clothes were available. The price of the resin fell and popularity soared. Early designs were Victorian. Later designs were quite geometric. It's art deco time.

It's Show Time!!!!

As most of you know it's that time of year again - Show time!

This is our last week before we start to piece together the show at the Newark Pavilion.

Next Weekend... the show set up begins...

We will start to load the truck **9AM on Sunday February 28th**. Please come if you can. We really need people who can lift small pieces of wood and other items - Bring gloves if you want them. Small pieces of lumber, items for the kitchen, display cases, etc. Most items are not heavy- I would say most items are under 10 pounds.

Monday, March 1 - 9AM Unloading the truck at the Pavilion, setting up Hall 4 and other areas if we have time. We might start skirting on this day as well for this building only. General Show set up. If you can hang electrical cables please come. We might set up the display cases today as well.

Tuesday, March 2 - 9AM Skirting for hall 4 and other areas. We will have to set up some small houses with skirting, the fluorescent mineral room and demonstration area. We will also try to set up the display cases in the Bar area of Hall 1. Hall 1 cannot be set up until Wednesday due to Bingo. General Show set up.

Wednesday, March 3 - 9AM - Set up of Hall 1 - and all other details need to be ironed out this day.

Thursday, March 4 - 9AM - We MUST finish all details in setting up by 2PM. We will need some people to come for security as our dealers move in and set up. Security's job is to make sure strangers are not on the premises and all goods are to be touched by dealers only.

Friday- Saturday, March 5-7th - 9-10AM - The show will open to school tours at 9:30AM on Friday - all other days we are open to the public by 10AM. Please come in a little early if you're the first shift of the day so you're sure to get in the door before the public enters. Please show up for your scheduled shift. It's difficult to staff people when you just drop in and we are not expecting you - unless you're one

of the many people who show up for their shift and give more than 4 hours in volunteer time.

We need CAKES, PIES, COOKIES dropped off in the Snack Bar in Hall 1.

WE NEED EVERYONE TO HELP WITH SECURITY AND MUST HAVE COVERAGE. THIS VENUE IS NOT AS EASY TO COVER AS THE HALL SINCE WE HAVE MULTIPLE BUILDINGS. NO SHOPPING!

If you have any questions please let me know. The Show Committee thanks every member for helping out this year - again if you can give more time than the 4 hours we really appreciate it. Things will be different this year - but it's the same show just a different location.

Thank you,

Jane on behalf of the entire show committee

UPCOMING EVENTS & SHOWS

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

March 13-14 2010, Spreckels, CA
Salinas Valley Rock & Gem Club

Veteran's Memorial Hall
5th & Liano Streets

Hours: 10-5 daily

Website: www.salinastrockandgem.com

March 13-14 2010, Turlock, CA
Mother Load Mineral Society

Stanislaus Co. Fairgrounds
900 N Broadway

Hours: Sat. 10-6 Sun. 10-5

Website: www.turlockgemshow.com

March 20-21 2010, Vallejo, CA
Vallejo Gem & Mineral Society

Vallejo Elks Lodge

2850 Redwood Parkway

Hours: 10 - 5 daily

Website: www.iwired.org

March 27-28 2010, Angels Camp, CA

Calaveras Gem & Mineral Society
Calaveras Co. Fairgrounds (Frog Town USA)

Hwy 49 in Angels Camp

Hours: Sat. 10 - Sun. 10-4

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

March 27-28 2010, Roseville, CA
Roseville Rock Rollers

Roseville (Placer Co.) Fairgrounds
800 All American City Blvd.

Hours: Sat. 10-5 Sun. 10-4

Website: www.rockrollers.com



**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 dues are ½ for new membership.

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: _____

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

Shop Schedule (For members only)

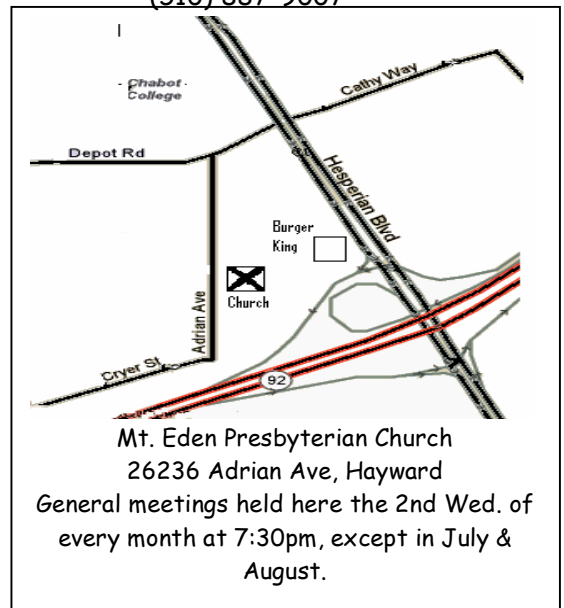
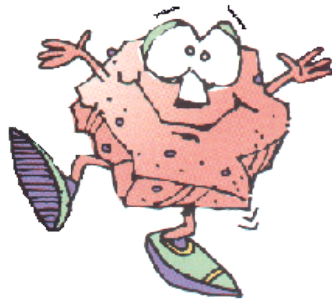
- Monday **10AM to 1PM**, Lapidary
7PM to 9PM, Beginners only in lapidary
- Tuesday Need Daytime Supervisor
6:30PM to 8:30PM, Lapidary
- Wednesday **9AM to 1:30PM**, Lapidary, intarsia & beading.
Library open 10AM to noon.
6PM to 9PM, Lapidary
- Thursday **10AM to 1PM**, Lapidary
4PM to 9PM, Lapidary
- Friday Need Daytime and Night Supervisors!
Temporarily closed
- Saturday **9AM to 5PM**, juniors, adults
w/supervisor's approval
Library open 10AM to noon.
- Sunday Need Daytime and Night Supervisors!
Temporarily closed



Our shop: 20948 A Corsair Blvd
Hayward, CA 94545
(510) 887-9007

We are in need of Shop Supervisors for Tuesday Day and Friday Day and Night. If interested, please see Beth!

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



Mt. Eden Presbyterian Church
26236 Adrian Ave, Hayward
General meetings held here the 2nd Wed. of every month at 7:30pm, except in July & August.

PETROGRAPH

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Editor

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