



BRECCIA

Santa Clara Valley Gem and Mineral Society

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San Jose, CA
January, 2019

President's Message

Welcome to 2019! The festivities have wound down for most people – Thanksgiving, Christmas, and the New Year's Eve parties, but the Santa Clara Valley Gem and Mineral Society (SCVGMS) folks are ramping up and getting ready for the 64th Annual Gem and Mineral Festival on March 16 & 17, 2019. It is held at the Santa Clara County Fairgrounds on 344 Tully Rd., in San Jose, CA. Many of our members are vendors at this show. Club members also participate in a variety of ways; set up, security, ticket collection, hospitality, tear down. There are so many ways we all participate to make this festival fun and safe and make money to support our club activities such as field trips, Smithies, and Cabbers.

One of the most important ways we spend our funds is to give scholarships to geology students in our area. They volunteer at our scholarship booth at the festival, where they answer many questions about geology, as well as sell rocks, books, magazines and spins on the prize wheel.

Everyone can help, and we hope you will volunteer to help make this festival a success! Sign-up sheets will be going around at the next meeting with a variety of needs. You can also talk to your new president, Michele Smith, or festival chairman, Frank Mullaney if you want to volunteer.

Every year brings new opportunities for this club and the leadership and board members change a bit each year. This year I, Michele Smith, am your new president. I do not have a degree in Geology, but I do have an interest in science, including the earth sciences. I was born in the copper mining town of Globe, AZ. It is located near the Sleeping Beauty turquoise mine. Globe is in a line of copper mining towns, Superior, Miami, Claypool and Globe, so copper was part of my young life. When I was little my grandmother, who lived in Claypool, took me and my brother on a walk every evening. She always started at a specific time, so that when we reached the perfect viewpoint, we could watch the slag poured on the cliff surrounding the open pit Miami Copper Mine. I do not know why this line of molten red leavings from the end of the mine shift was so exciting, but I still remember it fondly.

This club has been in existence since 1953. It is a friendly group of people who love all things geologic. You can tell by the rough hands, the dirty fingernails, the scuffed shoes and the oohs when a unique mineral is shown to the group. I love that we say the Pledge of Allegiance at the start of the meetings and the discussions about the latest field trips and rock finds. Let's work together to keep it a strong and happy club!

Your President,
Michele Smith



Festival - Fun for All

March 16 - 17: SAN JOSE, CA

Santa Clara Valley Gem & Mineral Society
Santa Clara County Fairgrounds
344 Tully Road
10 - 5 daily

Contact: Frank Mullaney at (408)266-1791
Email: rockyfiv@aol.com
Website: www.scvgms.org

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Calendar of Coming Events

January 9 - Smithies workshop 10AM to 1 PM at Pat Speece's home

January 22 - Meet and Greet at 7:15 and General Meeting at 7:45 with a lecture by Jim Fox on Wet Grinders

January 24 - Board Meeting at Michele Smith's home

February 6 - Smithies workshop 10AM to 1 PM at Pat Speece's home

February 13 - Smithies workshop 10AM to 1 PM at Pat Speece's home

February 26 - Meet and Greet at 7:15 and General Meeting at 7:45 with a lecture by

February 28 - Board Meeting at Frank Mullaney's home

March 6 - Smithies workshop 10AM to 1 PM at Pat Speece's home

March 13 - Smithies workshop 10AM to 1 PM at Pat Speece's home

March 16 - 17 - Santa Clara Valley Gem and Mineral Society Festival Saturday and Sunday 10:00 - 5:00

March 26 - Meet and Greet at 7:15 and General Meeting at 7:45 with program to be determined

March 28 - Board Meeting at Jo Borucki's home

Bragging Rights

Alan Achor-Chairperson

The next contest will be in **January 2019** with the theme being items that are **drusy**.

What is Drusy?

Drusy refers to a coating of fine crystals on a surface. Usually the fine crystals are quartz, but other minerals such as dolomite, calcite, or garnets may also form a druse on the surface of a rock. This happens when ground water carrying dissolved silica settles into the porous areas of the rock, and then rapid cooling causes the formation of tiny crystals on its surface. Examples of minerals that may have drusy surfaces are chrysocolla, malachite, pyrite, hematite, and others. A druse can be put on a surface artificially, for example, I have a glass cabochon with a quartz druse. Minerals with drusy surfaces are often used in jewelry.

by Jo Borucki

Sunshine

Our thoughts are with you, **Sonia Dyer** for the recovery of your health, also our gratitude for all the work you have done for the club.

To report someone needing sunshine email Margo Mosher - margomosher@yahoo.com

Membership Dues for 2019

It is time to renew your club membership. The dues are \$30 for a household, \$20 for an individual, and \$5 for a junior. If you are not yet a member, you may apply after attending two of our meetings. Please contact Missy Fox at jfox152@earthlink.net or pay at our next meeting.

2019 SCVGMS Board Members

President – **Michelle Smith**
 Vice President – **Kyle Van Woerkom**
 Treasurer – **Missy Fox**
 Secretary – **Rick Kennedy**
 Newsletter Editor – **Jo Borucki**
 Parliamentarian – **Dean Welder**
 Federation Director – **Stephen May**
 Alternate Federation Director – **Paul Kidman**
 At large Board Members:
Jim Fox, Billie Gordon, Alan Achor, Cal Hansen and Frank Mullaney



We thank our 2018 board members for their fine service.

President - **Frank Mullaney,**
 Vice President – **Sonia Dyer**
 Treasurer – **Missy Fox,**
 Secretary – **Rick Kennedy,**
 Newsletter Editor – **Jo Borucki,**
 Parliamentarian – **Dean Welder**
 Federation Director – **Stephen May**
 Alternate Federation Director – **Karen Welder**
 At large Board Members:
Jim Fox, Alan Achor, Cal Hansen, Pat Schuesler, and Louis Schuesler



The Rocks by Steve Breazeale - Contributed by Pat Speece

Calling all Rockhounds! (Camp Paradise)

The Ruth Bailey Continuing Education drawing for Camp Paradise is coming in March! This is a wonderful opportunity for those who enjoy working with rocks. Some of the classes include silver smithing, cab making, soft stone carving, wire art, precious metal clay, casting techniques and beading.

Food and lodging are included.

The cost of this wonderful experience is normally \$400.00 per person but if you win the drawing, you and a guest will attend free.

The following 3 criteria must be met in order to enter the drawing:

1. Attended 3 or more general meetings in the last year
2. Volunteered 8 or more hours for the annual festival
3. Have not won and attended Camp Paradise or Camp ZZYZX for the past 3 years

Applications are available in this Breccia. The deadline for submitting your application is the beginning of the March general meeting.

If you have any questions about the camp or the drawing, please contact Missy Fox at:
Email: jfox152@comcast.net or Phone: 408-356-7711.

The application form for the drawing is on the next page.

2019 Festival Report

The dealer arrangements and floor layout plans are proceeding well. I have an advertising sheet that I will be sending out to several places the first of January. Our biggest need is for volunteers for setup and tear down. Margo Mosher will be contacting you to see where you can volunteer.

Don't forget to notify Steve May if you plan to put in a case.

I will have a show meeting in January and February with dates yet to be determined. An email will be sent out to indicate those dates, and the time will be 7:30 pm.

There are plenty of business cards, so please pass these out. I had some in my gym bag, and I passed them out at the gym the other day with the result that there will probably be about a dozen recipients coming to the Festival.

We need someone to take over the position of festival chairman next year. If you can do this, please let our president, Michele Smith know.

Your 2019 Festival Chairman,
Frank Mullaney

SCVGMS Continuing Education Application

Filling out this application and returning it to the SCVGMS board enters you into the Continuing Education drawing. The winner receives tickets for two people to attend the week-long stay at Camp Paradise the end of August and the beginning of September. The drawing will be held at the end of the March general meeting. The SCVGMS board welcomes you all to fill out the application if you have met the eligibility criteria below:

- Attended three or more SCVGMS general meeting a year.
- Volunteered eight or more hours at the annual show or in preparation for the show.
- Have not been a winner and attended the this camp or Camp Z'ZYZX in the last three years.

Name _____

What is the best way to contact you? Phone: _____ Email: _____

Please tell us what interests you about this opportunity. We like to hear what inspires people in this hobby. If you are a winner, we would like to share your words with the club members via the Breccia newsletter. Don't worry. We'll edit for spelling and punctuation.

Why would you like to attend Camp Paradise this coming season? _____

What is your favorite part in being in our hobby? _____

Things you need to know:

- The drawing will be held at the general meeting in March. You do not have to be present to win.
- Up to five names will be drawn. If for any reason the winner is unable to attend the camp, the second person will be contacted, and so forth.
- The winner is responsible for his/her transportation to/from the camp and any additional material fees for special classes. The ticket includes accommodations and meals.
- To assure your accommodations and attendance in one of the camps, you must contact Marion Roberts, CMFS head of Earth Science camps to make arrangements by July 1. Contact information for Marion Roberts can be obtained from Missy Fox, Continuing Education Chair.
- The winner will share his/her camp experience with the club by taking some photos, doing a show and tell at a meeting, and writing a short article for the Breccia.

Deadline for submitting the application for the drawing for Camp Paradise is the March meeting.

**Mail or turn forms in to Missy Fox, 16344 Shady View Lane, Los Gatos, CA 95032
Open to member and nonmembers alike.**

Questions??? Contact Missy Fox (408) 356-7711 or email jfox152@comcast.net

Smithies

Happy New Year!

Smithies continue to meet the first two Wednesdays of the month from 10am until 1pm.

Smithies make jewelry using saws, files, torches, rotary drill, dapping blocks, disk cutters and lots of other tools. These are guided workshops, a perfect place for beginners to become comfortable with tools and techniques in a small, friendly atmosphere. Tools and materials are supplied.

If you would like to be on the Smithie email list, or want more information, let me know via email.

Thanks,
Pat Speece
pat.speece@comcast.net

DRC

Happy New Year!

The **DRC** (Donation Receiving Committee) receives material donations, and offers the goods for sale at attractive prices at our outdoor sales.

Our next sale will be early summer - depending on the weather. I'll keep you posted.

Thanks,
Pat
pat.speece@comcast.net

Rockhound of the Month

Pat Speece was awarded Rockhound of the Month for **November** for her many contributions.

Recently she was on our **nomination committee**, has headed the **DRC** for many years, and she holds the **Smithies** class at her home twice a month. She has also volunteered to head up the **Silent Auction** for the 2019 year.

Thank you, Pat, for the many things that you do to support our society.

Cabbers Classes Cancelled

Currently, there are no classes because we **are in need of a volunteer** to teach others in our club how to cut and polish cabochons. The club has equipment such Genies are available to whoever volunteers. We wish to express our gratitude to **Victor Gassman** for leading this class the past two years.

Links to Shows Calendar and CFMS Websites

To get a full listing of **CFMS shows**, go to the CFMS shows website by clicking the following link: [CFMS Society/Club Shows](#)

Or to access the **CFMS Bulletin** click on: <http://www.cfmsinc.org/>

North Bay Field Trips President Message

North Bay Field Trips was founded January 5, 1974 by 15 societies from around the San Francisco Bay area to coordinate and share field trips. From a high of 22, we currently have 13 member societies and even fewer shared field trips. The members and societies of NBFT were involved and energetic. But that has changed. Attendance at our twice per year NBFT meetings has declined drastically. Many of our societies haven't attended in the last several years. Very few societies have recently hosted and shared a field trip.

This has raised these questions in my mind: Is an organization like NBFT needed? Have we out lived our need and our purpose? Are our members, our societies and field trippers interested? What is the future of NBFT? Is there enough interest; are there enough people willing to contribute and help so that this organization can survive and continue? We all need to decide! We need to have this discussion starting now. **I ask that you e-mail or call me with your thoughts, comments and ideas for the future of NBFT**; what do you think and what does your society think. Please let me know. Betty and I have spent the past 27 years with rockhound activities, and a big part of all of this involved NBFT. I would hate to see it go away.

Our Spring meeting is scheduled for Saturday, April 13, 2019, and we need a society to step forward to host it. We know the date, we just need to learn the who and the where. If you/your society would be willing to host our meeting give me a call or e-mail and I can tell you every thing that you need to do.

Betty and I are almost recovered from our issues of September and October, so we are going to Quartzsite in mid-January for a week. We won't be dry camping with the Ye Old Timers in the desert but we will stay in town at an RV park with full hook-ups. Hope to see many of you in Quartzsite.

Have a Merry Christmas and a Prosperous New Years. Safe travels.

Keep on rockin', Dick Pankey

New Website

Great News!! **Our new website is up and running.** Click on the following link:

<http://www.scvgms.org/>

After you click on the above link, if you want to see the Breccia and other news items, scroll down and click on

[More News](#)

The Silent Auction and Identifying Apophyllite

by Jo Borucki with technical help from Bill Borucki

Our silent auction was held at our general meeting on November 27. There were many interesting items to bid on including jewelry, minerals, a geode slab, useful items related or not to rock hounding, and unusual items such as three plastic bags containing hundreds of historic match books from someone's collection. The bidding was active, competitive, and fun with so much to choose from.



Quartz Geode Slab



Bidding on Items



Jade Ring



Tumbled Rocks

I bid on a big rock covered with light green crystals because I wanted to take it home and work with my husband, Bill to identify it and learn about its properties. My bid won, and I took my prize home for hours of enjoyable investigating and learning. Bill's interest is usually about what he can analyze and then learn from his analysis. Rocks and minerals are no exception. In the June and July issues of the 2018 *Breccia*, I wrote an article about simple methods to determine the hardness and the density of mineral samples. In this article, I will discuss using those measurements and the use of look up tables and other types of measurements to help in the identification of a mineral sample.

The rock I brought home was 9 by 5 inches in size and covered with light-green crystals so I felt that it was okay to break off a few crystals from the bottom where their absence wouldn't be noticed. We measured the hardness at just under five and the density between 2.3 and 2.4. After measuring the density, hardness, color, and streak, we searched the tables in the *Gemstones of the World (Revised and Expanded Edition)* by Walter Schumann and reduced the candidates to a dozen from the 4000 known minerals. Then we examined the shape of the crystals and found that the ends were square and perpendicular to the long axis. That result implied that the crystal form was tetragonal (as described in the book's introduction). Putting the flat-side of the crystal on the Gemological Refractometer (see [photo] with a drop of refraction fluid showed that the index of refraction was 1.53. All these measurements were consistent with the mineral apophyllite.

The paperback book *Rocks and Minerals* by Frederick H. Pough (a Peterson Field Guild book) provided two simple tests to confirm the mineral identity. The book mentioned that if the mineral was apophyllite, then heating a small piece with a torch would cause the piece to

blister as if was covered with white enamel. The blistered material would then fluoresce under UV light. Our identification as apophyllite was confirmed.

We had a wonderful afternoon of fun and learning. My winning bid paid off big time. The Club will have another silent auction in the spring or early summer. Come, bid, win, and enjoy learning about your acquisitions as we have done with a rock containing lovely green crystals of apophyllite.



Refractometer



Rock with Crystals



Apophyllite Crystals



Blistered Crystals

2019 Field Trips

Currently, there are no field trips planned.

Field Trip Coordinator:

Stephen May: Cell: 408-306-6782; Home: 669-248-3993

Show and Tell Members' Displays

All members are asked to display at least one time per year, but you may display as many times as you like. There are no displays in June and November because of the Silent Auctions. There are no displays in December because there is the installation dinner in lieu of our regular meeting.

Don't know what to display? Any type of rock, mineral, or fossil (identified or not), your latest project, information on a field trip, ideas for a display case, anything to do with rocks is appreciated. Sharing items helps to educate all who attend the meeting.

At our November meeting, **Kyle Van Woerkom** brought a large piece of Jasper collected in the Silver Creek area.

Rick Kennedy - Chairperson

General Meeting Minutes

November 27th, 2018

The November meeting of the Santa Clara Valley Gem and Mineral Society was **called to order** at 7:45 pm at the Cabana Club. The minutes from the October meeting were not printed in the Breccia. (**Note by Jo Borucki—The October minutes are in the October Breccia.**)

Pledge of allegiance led by Frank Mullaney

Announcements: Installation Dinner, December 4th. Don't forget to bring Toys for Tots.

Dues are due for those who have not yet paid.

Cabbers is in need of a new Leader and location, as Victor Gassmann will no longer fill the role.

No General Meeting in December.

There will be a **Meet and Greet** prior to each General Meeting from 7:15 – 7:45.

Correspondence: Due to the Secretary not being present there was no correspondence.

Program is the Silent Auction, tables closing though out the meeting.

Nominations for the new board members by the nominating committee were announced.

Following Roberts rule of order, further nominations were solicited from the membership as each position on the board was presented. There were no new nominations for board positions presented except for the position of Vice President. As the nominating committee did not have a nomination, Jim Fox nominated Kyle Van Woerkom, and was seconded by Margot Mosher. The board positions were voted with the following results:

President: Michele Smith

Vice President: Kyle Van Woerkom

Secretary: Rick Kennedy

Treasurer: Missy Fox

Editor: Josephine Borucki

Federation Director: Stephen May

Alternate Federation Director: Paul Kidman

Parliamentarian: Dean Welder

Board Members: Jim Fox, Billy Gordon, Alan Achor, Cal Hansen, Frank Mullaney

New Members: No new members this month.

Board Meeting: Will be at the Cabana Club, following the general meeting.

December Board Meeting will be at the home of Frank Mullaney on December 6th.

Bragging Rights:

Jim Fox won last month's contest for his Blue Jade. January's theme will be Drusy.

Rockhound of the Month: Pat Speece for her continuous hard work for the DRC and running Smithies.

Field Trips: No remaining Field Trips this year.

Member Displays: Kyle Van Woerkom brought a large piece of Jasper collected in the Silver Creek area.

Festival: Frank Mullaney will take over as Chairman of the Mineral Show for 2019, due to Sonia Dyer bowing out due to health issues.

Hospitality: 42 members and 6 guest were in attendance.

ALAA: Nothing new.

Federation Report: Stephen May attend the meeting in Visalia. Stephen brought up the possibility of the SCVGMS sponsoring a highway cleanup program. Frank announced that we have previously sponsored highway cleanup and it will be looked into.

Sunshine: Both Betty and Dick Pankey are recovering from their illnesses.

Meeting was adjourned at 8:56 PM.

Stephen May, substituting for Rick Kennedy

Board Meeting Minutes

November 27th, 2018

The November Board meeting of the Santa Clara Valley Gem and Mineral Society was **called to order at 9:00 pm**, immediately following the regular Monthly meeting at the Cabana Club.

Roll Call: In attendance were Frank Mullaney, Cal Hansen, Jim Fox, Missy Fox, Stephen May, Jo Borucki, Louis Schuesler, Pat Schuesler, Dean Welder, Karen Welder and Alan Achor. Missing were and Rick Kennedy and Sonia Dyer.

Reading of the Minutes from April the 26th were read by Stephen May, filling in for Rick Kennedy. M/S/P to postpone the reading of the October minutes. (P. Schuesler, M. Fox).

Correspondence: As the Secretary was not present, no correspondence was presented.

New Members: No new members.

Treasurers Report: The treasurers report was presented by Missy Fox. M/S/P to pay the bill for the new society phone, printing of the November Breccia, and manila envelopes (C. Hansen, L Schuesler). DRC had reported proceeds of the previous sale of \$1331, which did not include an outlay of \$50.00 for starting change, for a net total of \$1,281.

Committee report: There were no committee reports.

Old News: No old business was discussed.

New Business: M/S/P to order food for 30 for the installation dinner in December. (J. Fox, P. Schuesler)

December Board Meeting: The December Board Meeting will be on December 6th at the home of Frank Mullaney.

Meeting was adjourned at 9:08 p.m.

Stephen May, substituting for Rick Kennedy

The **Installation Dinner** was held on **December 4** in place of the general meeting, therefore there are **no minutes for a general meeting in December**.

Board Meeting Minutes

December 6th, 2018

The **December Board** meeting of the Santa Clara Valley Gem and Mineral Society, 2018 Board of Directors was not called to order, as there were insufficient members for a quorum. The **December meeting** of the **2019 Board of Directors** was called to order at 7:49 PM at the home of Frank Mullaney.

Roll Call: In attendance were Frank Mullaney, Cal Hansen, Jim Fox, Missy Fox, Jo Borucki, Stephen May, Dean Welder, and Paul Kidman.

Reading of the Minutes: October and November to carry over to January. (S. May, M. Fox).

Correspondence: As the Secretary was not present, no correspondence was presented.

New Members: No new members.

Treasurers Report: The treasurer's report was presented by Missy Fox. All current bills previously approved by board.

Committee report: There were no committee reports.

Old News: The Audit report needs to be completed. The committee will consist of Stephen May, Paul Kidman, and a third member to be determined. It will await completion of the annual statement.

New Business: Festival Meeting for January to be determined by Frank, as the new chairman. Late dues will be announced at the January General Meeting. Missy Fox will be the contact person for Insurance from McDaniel's.

M/S/P to order bars and triangles. (J. Fox, P. Kidman)

M/S/P to pay insurance for Officers and Directors, \$275.00. (D. Welder, J. Fox)

M/S/P dues for CFMS and Officers, change form, \$8 per member, similar to last years amount of \$1,016. (S. May, J. Borucki)

Meetings and Special Events reservations at the Cabana Club to be arranged by Frank Mullaney through Gina Wagner. M/S/P Bill to be paid when it becomes available. First half of year cost is approximately \$309.00. (C. Hansen, J. Fox)

M/S/P to set up autopay, \$25.23/month for phone (S. May, J. Fox)

M/S/P to pay \$50.00 ALAA dues, Missy to pay. (M. Fox, S. May)

M/S/P to pay trailer storage fee of \$91.00 for 6 months. (J. Fox, C. Hansen)

M/S/P to pay for Post Office Safety Deposit Box, \$70/ year. (D. Welder, J. Fox)

M/S/P to authorize automatic payment for printing of Breccia printing

2019 hosting Board Meetings:

January, Michelle Smith

February, Frank Mullaney

March, Jo Borucki

April, Jim and Missy Fox

May, Paul Kidman

June, Stephen May

Meeting was adjourned at 8:11 p.m.

Stephen May, substituting for Rick Kennedy

Santa Clara Valley Gem and Mineral Society

P.O. Box 54, San Jose, CA 95103-0054

Website: www.scvgms.org

Email: info@scvgms.org

Phone Number (408) 265-1422

Like us on Facebook:

<http://www.facebook.com/santaclaravalleygemandmineralsociety>

SCVGMS ELECTED OFFICERS

President: Michele Smith (408)374-1897

Vice President: Kyle Van Woerkom
(408) 629-5735

Secretary: Rick Kennedy (408) 529-9690

Treasurer: Missy Fox (408) 356-7711

Editor: Jo Borucki (408) 245-2881

Federation Director: Stephen May
(669) 248-3993

Alternate Fed. Director: Paul Kidman
(408) 356-3406

Board Members

Jim Fox (408) 356-7711

Billie Gordon (408) 356-3406

Alan Achor (408) 749-0771

Frank Mullaney (408) 691-2656

Cal Hansen (408) 394-4642

Parliamentarian:

Dean Welder (408) 353-2675

SCVGMS COMMITTEE HEADS

Bragging Rights Chair: Alan Achor

Donation Receiving Committee Chair:

Pat Speece, Missy and Jim Fox

Festival Chairman 2019: Frank Mullaney

Field Trip Committee Coordinator:

Stephen May

Founder's Day Picnic Chairman: TBD

Founder's Day Raffle: Pat Speece

Founder's Day Bingo: TBD

Hospitality: Pat and Louis Schuesler

Installation Dinner: Rick Kennedy

Member Displays: Rick Kennedy

Refreshments: TBD

Silent Auction: Pat Speece

Sunshine: Margo Mosher

Trophies: Frank Mullaney

Webmaster: TBD

An Invitation

This society is pleased to invite guests to attend general meetings, study groups, and field trips. General meetings are normally held the **fourth Tuesday of every month with meet and greet time beginning at 7:15 followed by the meeting at 7:45 PM at 100 Belwood Gateway (the Cabana Club), Los Gatos, CA 95032.**

Belwood Gateway is just south of Blossom Hill Road between Leigh Avenue and Harwood Road. The next **General Meeting is on January 22.** The **Board Meeting is on January 24 at Michele Smith's home.**

Our Society's Purpose: The inculcation of a love of rocks and minerals by the furtherance of members' interests in the earth sciences and by education in all facets of related educational activities with the promotion of good fellowship, proper ethics, and conduct.

Our Membership Requirements: Attendance at two general meetings within twelve months. This society is a member of the California Federation of Mineralogical Societies (CFMS) and is affiliated with the American Federation of Mineralogical Societies (AFMS). Dues per year are \$5.00 for Junior, \$20.00 for an individual, and \$30.00 for the household.

Our Newsletter, the Breccia, is published ten times annually. **The deadline for all articles is the Sunday after the general meeting.** The Breccia editor is Jo Borucki who may be contacted by email at joborucki@yahoo.com or by phone at (408)245-2881. Leave a message if no one picks up the phone. The Breccia is proofread by Pat Speece. Exchange bulletins may be sent to Jo Borucki, 1196 Sesame Drive, Sunnyvale, CA 94087. Permission to copy is freely granted to American Federation of Mineralogical Societies (AFMS) affiliated clubs when proper credit is given.

Study Group Leaders

For information, please contact the leader listed below.

Smithies: Pat Speece 408- 266-4327 pat.speece@comcast.net

Cabbers: We need a leader. Can it be you?