

## CLUB NOTES



Next Board Meeting and Show Meeting will be **Saturday February 9<sup>th</sup> at 3:00 PM** via **Zoom virtual room**. If you have not received a link to the meeting, and would like to attend, please email [president@mgscv.org](mailto:president@mgscv.org) and request an invitation.virus

**. the General Meeting for February via Zoom will be on 13<sup>th</sup> at 4:00**



### In This Issue:

- ❖ Club Notes
- ❖ Meeting Minutes
  - January 9<sup>th</sup>, 2021
  - General Meeting
  - January 16<sup>th</sup> 2021
  - Gem of The Month
- ❖ Updated Letter from The Prez
- ❖ Shop Notes
- ❖ Map To General Meeting Place

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, but if requested, the contributor's name can be withheld. Members are encouraged to submit articles that may be of interest to the general membership. The Editor reserves the right to edit or omit any submitted articles. Sources must be cited for material quoted from other authors. Permission to reprint Petrograph articles is hereby granted provided properly cited.

### 2020 MGSCV Officers

#### Elected

President - <b>Jodi Minshall</b>	<a href="mailto:President@mgscv.org">President@mgscv.org</a>	
Vice President - <b>Greg Croft</b>	<a href="mailto:VP@mgscv.org">VP@mgscv.org</a>	
Secretary - <b>Sheryl Cooper</b>	<a href="mailto:Secretary@mgscv.org">Secretary@mgscv.org</a>	(510) 589-8858
Treasurer - <b>Sheryl Cooper</b>	<a href="mailto:Treasurer@mgscv.org">Treasurer@mgscv.org</a>	
Director - <b>Pete Bergeron</b>	<a href="mailto:Director1@mgscv.org">Director1@mgscv.org</a>	
Director - <b>Norm Hodgson</b>	<a href="mailto:Director2@mgscv.org">Director2@mgscv.org</a>	
Director - <b>Michelle Bennette</b>	<a href="mailto:Director3@mgscv.org">Director3@mgscv.org</a>	
CFMS Director - <b>Beth Farmer</b>	<a href="mailto:Federation@mgscv.org">Federation@mgscv.org</a>	
Shop Manager <b>Neil Delfino</b>	<a href="mailto:ShopManager@mgscv.org">ShopManager@mgscv.org</a>	
Show Chairman - <b>Cathy Miller</b>	<a href="mailto:ShowChair@mgscv.org">ShowChair@mgscv.org</a>	
Membership - <b>Tony Cooper</b>	<a href="mailto:membership@mgscv.org">membership@mgscv.org</a>	510-589-5292
Editor - <b>Diana Cohoon</b>	<a href="mailto:Editor@mgscv.org">Editor@mgscv.org</a>	925-348-3000
Past President - <b>Bonnie Andrade</b>	<a href="mailto:pastpresident@mgscv.org">pastpresident@mgscv.org</a>	

#### Appointed

Scholarship Chair - **Greg Croft**  
Librarian - **Mike Mc Bride**  
Historian - **Norm Hodgson**  
Purchasing Agent - **Beth Farmer**  
Education Coordinator - **Lily Johnson**  
Sunshine Reporter - **All members**  
Door Prizes - **Neil Delfino**  
Web Master - **Tony Cooper**  
[webmaster@MGSCV.org](mailto:webmaster@MGSCV.org)



Publication Staff



✧Contributors: **Sheryl Cooper, Jodi Minshall**

## BOARD MEETING MINUTES

January 9, 2021

By Jodi Minshall

The meeting was called to order at 3:00 PM by **Jodi Minshall**.

There were 8 Board members in attendance: **Jodi Minshall, Bonnie Andrade, Greg Croft, Beth Farmer, Sheryl Cooper, Michelle Bennett, Neil Delfino, Pete Bergeron.**

Meeting minutes from the previous Board meeting were reviewed. **Sheryl Cooper** moved the minutes be accepted as printed in the Petrograph with **Greg Croft** seconding the motion. A vote on the motion was taken and was passed unanimously.

### Committee Reports:

**Vice President:** Greg has prepared a presentation on Garnets for the General Meeting. He is reaching out to the CSUEB Earth Sciences department for their recommendations for the 2021 scholarship recipients.

**Treasurer:** An Treasurer's report was presented to the Board and accepted.

**Shop Manager:** The 14' saw is offline and new bearings have been ordered. Other equipment is being worked on. Now that the hoist system is

installed and tested, items being stored by club members are to be returned to the shop and stored in the mezzanine. Work parties need to be formed to move stored items out of the library and the faceting room and up to the mezzanine.

### CFMS Representative:

Beth Farmer reported there are several Northern California club shows still on the CFMS master schedule. Shows are scheduled for February 20-21 (Antioch) and 27-28 (Vallejo). Be sure to check their websites to verify the shows are still on before attending.

## General Meeting Minutes

January 16, 2021

By Jodi Minshall

The meeting was called to order at 4:00 PM by **Jodi Minshall** via a zoom meeting space.

**Presentation:** **Greg Croft** gave a comprehensive presentation on garnets. They are found all over the world in a variety of colors with essentially the same chemical structure and physical characteristics. Please talk to Greg if you would like a copy of the presentation.

The slate of Board Members for 2021 was submitted to the attending members and was voted on and passed unanimously. No major changes currently from the 2020 slate, but we are seeking volunteers for the Club Secretary and Field Trip Coordinator positions. Sheryl Cooper has been managing the Secretary's tasks, and Greg Croft has volunteered to work on scheduling some field trips. They are both willing to hand off the duties to a new volunteer.

**Committee Reports:**

**Shop Manager:** Neil Delfino reports the 24" saw will be back in service soon. Members who want saw training please send Neil an email at [shopmanager@mgscv.org](mailto:shopmanager@mgscv.org) to request training.

**CFMS Representative:**

The dues and insurance fees for our CFMS 2021 membership are being mailed out this week. The forms for nominating a Junior Achievement candidate are due May 1<sup>st</sup>, 2021.

**Sunshine Report:** Ed and Pat Rigor have both passed away. No memorial services have been scheduled as yet.

**Membership Coordinator:** There were 110 members at year's end 2019. There are currently 55 members

enrolled for 2020. **Greg Croft** will be enrolling his entire Geology class in club memberships, there are 25 in all. He will do an orientation session and teach the capping process to the new members. It will be good to see new faces around the shop soon. Please be welcoming to them.

**Junior Mentor:** There is a junior member who is attending the Monday night adult beginners' class because we do not currently have a junior mentor. Please volunteer if you are interested in mentoring these bright kids. Junior sessions typically take place on Saturday afternoons, but we can be accommodating to fit your schedule.

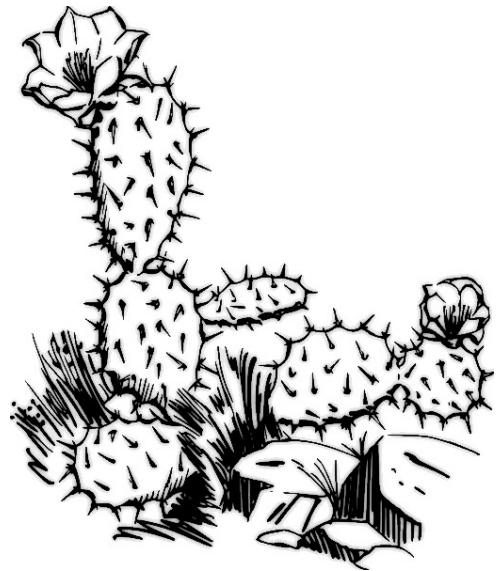
**Scholarship:** **Greg Croft** has been in touch with the Earth Sciences department at CSUEB and they have selected two worthy students for scholarships. The scholarship awards will be presented at the February General meeting. Please join us at the meeting to congratulate these students.

**Unfinished Business:** A vote was held to elect the Board Officers for 2020. The slate of candidates was read by **Cathy Miller** and **Beth Farmer** moved that the slate be voted on as a whole. Norm Hodgson

seconded the motion, so the vote was held. The officers of the Board of Directors have all agreed to continue in their current positions, and by vote of the members present, all were re-elected unanimously. Of voting Board positions, we are still in need of a Secretary, and a third Director. Of non-voting, appointed Board positions we still need to fill are Education Coordinator, Parliamentarian, and Junior Mentor.

The new lease contract for the club's suite will be signed by February 1<sup>st</sup> pending final approval of the lease terms by the Board.

changed and the results were too unpredictable. She also taught faceting and was responsible for the club's collection of faceting machines.. I am sure you guessed a long time ago our gem is **Pat Rigor**. **Unfortunately, we have lost this vintage gem her name is Pat Rigor.**



**Updated Letter From The Prez  
By Jodi Minshall  
Gem for february**



### **GEM OF MONTH**

Pat and Ed (married in 1952) hit the gem trail for several years. Pat is an expert with beads. She used to make beads, too, but she quit when some of the chemical makeup of enamels



**AMETHYST**

<b>Category</b>	<a href="#">Silicate mineral</a>	<b>Refractive index</b>	$n\omega = 1.543\text{--}1.553$ $n\varepsilon = 1.552\text{--}1.554$
<b>Formula</b> (repeating unit)	<a href="#">Silica</a> (silicon dioxide, <a href="#">SiO<sub>2</sub></a> )	<b>Birefringence</b>	+0.009 ( <i>B-G interval</i> )
<b>Crystal system</b>	<a href="#">Trigonal</a>	<b>Pleochroism</b>	<i>Weak to moderate purple/reddish purple</i>
<b>Crystal class</b>	Trapezohedral (32)	<b>Melting point</b>	1650±75 °C
<b>Space group</b>	<i>P</i> 3 <sub>2</sub> 21 (no. 154)	<b>Solubility</b>	<i>Insoluble in common solvents</i>
<b>Color</b>	<i>Purple, violet, dark purple</i>	<b>Other characteristics</b>	<a href="#">Piezoelectric</a>
<b>Crystal habit</b>	<i>6-sided prism ending in 6-sided pyram (typical)</i>		
<b>Twinning</b>	<i>Dauphine law, Brazil law, and Japan law</i>		
<b>Cleavage</b>	<i>None</i>		
<b>Fracture</b>	<i>Conchoidal</i>		
<b>Mohs scale hardness</b>	<i>7–lower in impure varieties</i>		
<b>Luster</b>	<i>Vitreous/glassy</i>		
<b>Streak</b>	<i>White</i>		
<b>Diaphaneity</b>	<i>Transparent to translucent</i>		
<b>Specific gravity</b>	<i>2.65 constant; variable in impure varieties</i>		
<b>Optical properties</b>	<i>Uniaxial (+)</i>		

### Geographic distribution [\[edit\]](#)



An amethyst [geode](#) that formed when large [crystals](#) grew in open spaces inside the rock.

Amethyst is produced in abundance from the state of [Rio Grande do Sul](#) in Brazil where it occurs in large [geodes](#) within [volcanic rocks](#). <sup>[9][10][11][12][13]</sup> Many of the hollow agates of southwestern [Brazil](#) and [Uruguay](#) contain a crop of amethyst crystals in the interior. [Artigas, Uruguay](#) and neighboring Brazilian state [Rio Grande do Sul](#) are large world producers

exceeding in [quantity Minas Gerais](#), as well as [Mato Grosso](#), [Espírito Santo](#), [Bahia](#), and [Ceará](#) states, all amethyst producers of importance in Brazil.



Amethyst from Brazil in the Mineral museum in India

It is also found and mined in [South Korea](#). The largest opencast amethyst vein in the world is in [Maissau](#), Lower [Austria](#). Much fine amethyst comes from [Russia](#), especially from near Mursinka in the [Ekaterinburg](#) district, where it occurs in [drusy](#) cavities in [granitic rocks](#). Many localities in south [India](#) yield amethyst.<sup>[1]</sup> One of the largest global amethyst producers is [Zambia](#) in southern [Africa](#) with an annual production of about 1000 tons.

Amethyst occurs at many localities in the United States. Among these may be mentioned: the [Mazatzal Mountain](#) region in [Gila](#) and [Maricopa Counties](#), [Arizona](#); Red Feather Lakes, near Fort Collins, Colorado; Amethyst Mountain, [Texas](#); [Yellowstone National Park](#); [Delaware County](#), [Pennsylvania](#); [Haywood County](#), [North](#)

[Carolina](#); Deer Hill and Stow, [Maine](#) and in the [Lake Superior](#) region of [Minnesota](#), [Wisconsin](#) and [Michigan](#).<sup>[1]</sup> Amethyst is relatively common in the Canadian provinces of [Ontario](#) and [Nova Scotia](#). The largest amethyst mine in North America is located in [Thunder Bay](#), Ontario.

Amethyst is the official state gemstone of [South Carolina](#). Several South Carolina amethysts are on display at the [Smithsonian Museum](#) of Natural History.<sup>[14]</sup>



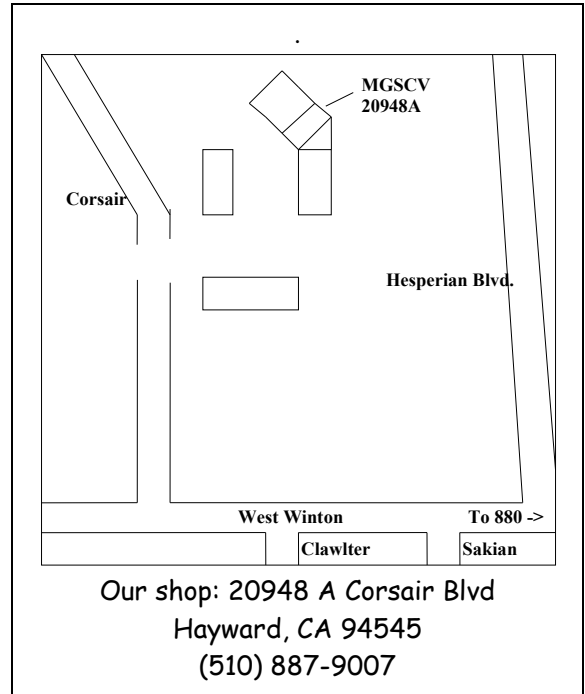
**MGSCV Petrograph February 2021**  
**Monthly Bulletin of the Mineral and Gem Society of Castro Valley, Inc.**



**Shop Notes**  
**(All shop session's members only)**

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

**MAP TO THE SHOP**



**SHOP NOTICES:**

Email us at [info@mgscv.org](mailto:info@mgscv.org)



**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.**

MGSCV Petrograph February 2021

Monthly Bulletin of the Mineral and 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 at the shop 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](mailto: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](mailto: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): \_\_\_\_\_ new membership \_\_\_\_\_ renewal membership \_\_\_\_\_ Lifetime (voted in by the board)

* With Shop privileges	Junior Membership	NO Shop Privileges
_____ Single - \$45	_____ Junior (11-17 with adult) - \$1	_____ Single - \$35
_____ Couple - \$80	_____ Junior (11-17 without adult) - \$5	_____ Couple - \$60

After July 1st all **new** membership dues are half (1/2)

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 \_\_\_\_\_ phone \_\_\_\_\_ email 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: \_\_\_\_\_

Mineral & Gem Society of Castro Valley (MGSCV)

Membership Application and Information