

Canaveral Moonstone



Presidents Corner



Our plans at this time are to have our next CMGS monthly meeting on the first Wednesday of June; 6/3/2020. We will send a confirming message in the 3rd week of May. I will confirm with Unity that their space will be available. At that time I will also check on July and August availability. I would like to return to 12 monthly meetings per year.



I would like to be able for us to open our shops as early in June as our Directors, Teachers and Shop Management determine it is safe.

We are also checking to see if the third June weekend (Sunday) is available for the Palm Bay Park for a reschedule of our Picnic.

Remain Safe!!

Don



Exchange Bulletins are Welcome

(All material may be copied unless otherwise noted if credit is given)

The Dead Line for the June Moonstone is May 20, 2020.

The URL for CMGS web site is: <http://www.canaveral-mgs.com/>

The **Canaveral Mineral and Gem Society (CM&GS)** is a registered Florida not-profit-corporation approved by the Internal Revenue Service as a tax exempt , organization under Internal Revenue Code section of Florida 501 (c) (7) for the following purposes:

1. For the preservation, support, and promotion of the hobby of Mineralogy and its various forms of allied activities and earth sciences.
2. To dedicate ourselves to the furtherance of the hobby through the exchange of knowledge, experience, and other helpful information among ourselves and other like organizations.
3. To further the education of members and the general public of the hobby by programming talks, discussions, motion pictures, field trips, and the staging of shows and exhibitions.
4. To maintain an active affiliation with the Southeast Federation of Mineralogical Societies and to participate in Federation activities to the fullest extent possible.

Goals and Objectives

5. To promote the spirit of cooperation and fellowship among the membership.
6. To increase our knowledge of rocks and minerals and to explore the mystery and wonder of the earth.
7. To actively encourage members to attend educational classes, workshops, lectures, and demonstrations.
8. To stimulate interest in the earth sciences within the community by providing scholarships to worthy students at all educational levels.
9. To provide the necessary equipment and resources to enable members to develop their interests.
10. To enjoy our hobby and Have Fun!

Affiliations

The Canaveral Mineral and Gem Society is a member of the Southeast Federation of Mineralogical Societies (SFMS) and the American Federation of Mineralogical Societies (AFMS)

Meetings and Dues

Meetings are the First Wednesday of each month (except July and August) at the Unity of Melbourne facility at 2401 North Harbor City Blvd., Melbourne, Florida. Meetings start at 7:00 p.m. Visitors are always welcome! Dues are \$30.00. Junior Member dues are \$2.00. Club shop is now located at 255 East Drive, Suite K, Melbourne, FL.

May 2020

| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
|-----------------------------|------------------------|-----|-----|-----|-----|-----|
| | | | | | 1 | 2 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 <i>Happy Mothers Day</i> | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 <i>Memorial Day</i> | 26 | 27 | 28 | 29 | 30 |
| 31 | | | | | | |

Our May monthly meeting has been cancelled. Open shops have been closed until further notice.

These steps have been taken as a safe guard for our group. Many of our members would be high risk for getting very ill from the Coronavirus.

Stay Safe

SFMS info on Coronavirus

Florida Department of Health COVID-19 Call Center is Available 24/7 Call: 1 (866) 779-6121 Email: COVID-19@FLHealth.gov For additional information and helpful links regarding COVID-19, Please visit the Florida Department of Health COVID-19 website at [FloridaHealth.gov/COVID-19](https://www.flgov.com/2020-executive-orders/).

<https://www.flgov.com/2020-executive-orders/>

Here are the links to CDC COVID-19 material: <https://www.cdc.gov/coronavirus/2019-ncov/index.html>
<https://www.cdc.gov/coronavirus/2019-nCoV/hcp/clinical-criteria.html#foot5>

The WHO (World Health Organization) is a major source of information, along with providing the preferred Hand Washing Techniques. World Health Organization (WHO):

<https://www.who.int/news-room/q-a-detail/q-a-coronaviruses>

https://www.who.int/health-topics/coronavirus#tab=tab_1

WHO Handwashing technique: https://www.who.int/gpsc/5may/How_To_HandWash_Poster.pdf?ua=1



**Message from our Webbie
Sharon Jones**

STAY CONNECTED

<https://www.facebook.com/Canaveralmgs/>

Did you see our I Spy game on Facebook?

Did you see the beautiful piece Shannon made?

Did you see the cool rock Scott cut?

While everything's shutdown & you're staying home bet you've had time to be creative.

We all miss each other and miss getting to show each other what we've been doing. **So let's do what we can to stay together!** Our Facebook site is public, so anyone can see and add to our page. You don't even have to have a Facebook account to see what is posted on this site.

Members, if you sell your creations, feel free to include your business link if you post a picture .

Check out the Facebook page. Post pictures of what you've been making, even if they aren't finished. Post comments/questions on the site.

We miss each other, this helps keep us together as members of this club!

Note: As the admin I monitor and ensure everything on this page is proper, and edifies our club and each other. We are a not-for-profit club and do not sell on this page, but as a member you may post a link to your page. Please be respectful of this.

Mineral of the Month—Chalcedony By Dave Jacobson

This month we will take a look at the cryptocrystalline species of quartz, SiO₂, silicon dioxide, call chalcedony. These species are favorites among gemologists and lapidaries.

These varieties of quartz are typically banded. The microscopic crystals are arranged in slender fibers in parallel bands. It is common in rounded (mammalary) aggregates and nodules. It has a dull, waxy or vitreous luster. Hardness 6.5 to 7. Specific Gravity 2.58 to 2.64. Chalcedony is primarily used as decorative stone and in the making of jewelry. Rock quartz crystal has a specific gravity of 2.65. Conchoidal fracture. Streak is white. Chalcedony is in the hexagonal crystal system.

Actual **chalcedony** is the white bluish gray variety. It is sometimes almost colorless.

Varieties of Chalcedony

- **Agate:** All forms with banding (parallel to concentric). The material can be transparent to opaque. Agate is named after the Achates (Drillo) River in Sicily. This was a major source of the gemstone, per Theophrastus, a Greek philosopher (372 - 287BC).
- Bull's eye agate: The banding forms concentric circles.
- Iris or fire agate: Iridescent resulting from thin layers of crystallized iron oxide.
- Onyx: Black and white banding.
- Sardonyx: Brown, ochre and white banding.
- **Heliotrope or Bloodstone:** The variety of chalcedony called plasma with red hematite or jasper spots and blotches. Name derived from the Greek *helio*, meaning "sun" and "*trepein*" meaning "turning"
- **Carnelian:** Translucent red brown to brick red material. Color due to hematite. Name derived from the Latin *cornum*, meaning "cornel berry" or "cornelian cherry"
- **Chrysoprase:** Translucent apple green material. Coloring agent nickel. Also found with serpentine in some areas. Name comes from the Greek *chrysos* meaning "golden" and *prase* meaning "leek."
- **Moss Agate:** Translucent light colored material. Black, brown, or green dendritic (branch like) inclusions. The inclusions are usually dark oxides. "Mocha Stone" is the moss agate from the Mocha, Yemen area.
- **Plasma:** Leek to dark green opaque material. Coloring agent various green silicate minerals.
- **Prase:** Transparent leek green material. Color due to chlorite inclusions.
- **Sard:** Light to chestnut brown translucent material. Color due to iron oxides and hydroxides. Sard is named after the Greek Sardis, which was the capital of Lydia in Asia Minor.
- **Jasper:** Massive, fine grained quartz mixed with other mineral material such as iron oxide. Color is typically in varying shades of red. It is a very common sedimentary rock. Takes it's name from the Greek *iaspis*. *This word is of oriental origin, but what it signifies is unknown.*
- **Chert:** Chalcedony deposited in spaces in sedimentary rock. Common in limestones.
- **Replacements:** Chalcedony is a common replacement for organic matter such as shells, wood and bone. Sometimes this replacement is so perfect that microscopic details are preserved. Some petrified wood is a good example of chalcedony replacement. I have a specimen in my collection, which when viewed under magnification the cell structure of the wood is visible. Fluorite, calcite, aragonite and many other minerals are also replaced by chalcedony.

One probable source for its name is an ancient town at the Bosphorus. Another source says it may derive its name from the ancient Greek Port of Chalcedon.

The following reference materials were used in preparing this article:

A Field Guide to Rocks And Minerals by Frederick H. Pough.

Mineralogy For Amateurs by John Sinkankus.

Simon & Schusters Guide to Rocks And Minerals.

Gemstones Of The World by Walter Schumann.

Gems, Crystals, & Minerals by Anna S. Sofianides , George E. Harlow & George W. Robinson, Ph.D.

Amethyst Galleries Mineral Gallery on the Internet at <http://mineral.galleries.com>.

Canaveral Mineral and Gem Society
March 4, 2020 Meeting Minutes

President Don McLamb opened the meeting Wednesday, March 4th at 7:07 pm at The Unity of Melbourne Hospitality Room, 2401 North Harbor City Blvd.

Don welcomed many new guests and members. He also announced that the response so far from dealers regarding the Parade of Gems was great. Don already has one quarter of the dealers signed up for this coming year. Don explained that the Parade of Gems is our major fundraiser for the year.

Melissa Horan announced Dolly's Picnic will be Sunday, April 19th. We need donations for Dolly's picnic. Rock Swap will be held March 21st at Wickham Park.

The minutes from last month was amended to add that the Treasurer's report was read by Liz Ritter. Liz announced that we are raising money by the ongoing classes and raffles. She went over the Treasurer's Report including outstanding checks, expenses and incoming money. She explained that the raffles help to pay for tuition for SFMS summer classes for a few lucky members.

Kathy Burnette announced that we have 5 new members but next month we will be cutting members that have not paid their dues. As such, our membership will be down.

Some of our ongoing classes are: Sharon Jones and Dave Wayment will be teaching silversmithing. Scott Belinger is teaching cabbing and Gail Wall will be teaching Fused glass classes. Shannon Byrd will be teaching wire wrap classes. If you are interested in any of these classes, please contact the teacher and sign up.

Bill Harr told about the classes through SFMS that will be held at William Holland in Georgia and Wild Acres in North Carolina this summer. The classes that will be taught are on the SFMS website. Every time you sign into a CMGS monthly meeting you get an opportunity to enter the drawing for free tuition for one of the SFMS classes. If you are one of the lucky CMGS winners, your tuition for one of the SFMS classes will be reimbursed.

Shannon Byrd announced that if you're not getting the Moonstone Newsletter please let her know.

Dave Jacobson spoke about the mineral of the month, Graphite, one of the softest minerals. He compared it to diamonds, one of the hardest minerals. Graphite occurs in metamorphic rocks and is used in pencils, as dry lubricants, electrodes and many other uses. As always Dave's talk was informative and interesting.

Sue Diebel's program on European Adventures was postponed since she was out sick.

Show and Tell: Scott Belinger taught a few cab classes and many of his students brought in cabs that they made including Hannah Cason, Colin Muir, Denise Giesler, Jim Price, Susan Cash and Wayne Mellish. Scott also displayed some of his cabs. Thanks, Scott, for the great classes and Show and Tell participation.

Lynn McKinny shared cabs and information about them that he made for a belt buckle.

Bill Harr showed and spoke about refractile. He put smokey quartz in Benzo Benzo. He also showed some casting samples of dew on flowers.

Mary Kinberg
Secretary

Bench Tips by Brad Smith

Work Smarter & Be More Productive With Brad's "How To" Jewelry Books

[Amazon.com/author/bradfordsmith](https://www.amazon.com/author/bradfordsmith)

DRILLING A STONE

One of the things my students often ask to do is drill a hole through a piece of gemstone. The usual thought is to get a diamond drill, but I've been disappointed with them. I think the reason is that the tip of the drill is just pivoting in the hole and fails to cut well. When it looks like the drill isn't cutting, the tendency is to push with more force. The drill gets hot, and the diamond grit falls off.

A much better approach is to use a core drill. This is a small hollow tube with a coating of diamond grit at the business end. The diamonds easily carve out a circular arc without undue pressure or heat buildup.

Core drills are readily available from lapidary and jewelry supply companies. They come in sizes as small as 1mm and are very reasonable in price. For instance, a 2mm diameter drill is about \$7.

Chuck the core drill in a drill press, Dremel or Foredom and be sure to keep the drilling zone wet to cool the tool and to flush out debris. Also, if you're drilling a through hole, go very easy on the pressure as the drill is about to cut through. Otherwise you will usually chip off some of the stone surface around the hole.

In addition, you might be interested in an experiment we did yesterday with my rock club. At the request of local authorities, we had to close down all club activities several weeks ago. But as the date for our April meeting grew near, and with no end in sight to the quarantine situation, we decided to experiment with the idea of a virtual meeting.

So last night the Culver City, CA club held its first ever online meeting. Members were able to communicate via cell phone, laptop, tablet or desktop. After a quorum of members signed on, we had a quick business meeting followed by a slide show of Death Valley historic mining & collecting sites.

We did this via Zoom.com which allows up to a hundred people to participate in a 40 minute chat free of charge. Simply download the app from Google Store or Apple Store and you're ready to go. Tutorials are available at zoom.com or youtube.com We found it useful to have one person act as the tech for the meeting and control the sequence of speakers. When we ran out of time, we simply opened a second session and continued with the 140 slides.

See the result on our Facebook page - <https://www.facebook.com/CCRMC/posts/10158383154896098>



Solve Your Jewelry Making Problems With Brad's "How To" Books
[Amazon.com/author/bradfordsmith](https://www.amazon.com/author/bradfordsmith)

2020 SFMS Classes

William Holland June 7 - 12, 2020

- Cabochons with Paul Roberts
- Casting with Bill Harr
- Faceting with Linda Searcy
- Flame Painting with Janet Pace
- Fly Tying with Jeff Heer
- Intarsia with Bill Boggs
- Loop-in-Loop Chuck Bruce
- Metal Mania with Cindy Moore
- Seed Beading with Jerri Heer
- Silver 1 with Pattie Appleby
- Silver II with Dale Koebnick
- Silver-Wear I and II with Jan and Keith Stephens
- Wire II with Gene Sheridan

Wildacres August 17 - 23, 2020

- Bench Making with Danny Griffin
- Cabochons with Buddy Shotts
- Colored Pencil Jewelry on Metal with Mary Karg
- Enameling with Ruth Prince
- Methods of stone setting with Metal Clay with Judi Talley
- Metal Mania with Cindy Moore
- Special Projects with Jeff Sheer
- Seed Beading with Gail Deluca
- Silver I and II with Pattie Appleby
- Southwest Silver with Morning Sherrod
- Wire Wrapping with Rowan Rose-Morgan



Wildacres Sept 14 - 20, 2020

- Casting with Bill Harr
- Chain Maille with Marilou Hillenbrand
- Electro Etching with Micah Kirby
- Gem Identification with Teresa Polly
- Loop-in-Loop Chuck Bruce
- Metal Mania with Cindy Moore
- Tangible Moments: Capturing the beauty of Nature in Metal Clay with Judi Talley
- Silver I and II with Pattie Appleby
- Southwest Silver with Morning Sherrod

Single Piece Competition

This year we are including both beginning and advanced divisions for most of the Single Piece Competition divisions. The competition is open to all club members, and will be held in conjunction with the Parade of Gems. All work, with exception of the stone used in the Jewelry and Metal Craft division, must be the work of the entrant. Judging will be done by Dave and Leslie Wayment following the AFMS Uniformed Rules. Each entrant will receive an explanation sheet from the judges. Prizes for 1st, 2nd and 3rd place will be given. The exact due by date, and whom to give the piece to, will be announced later. If you have any questions, call Dave at 772-532-6432.

Beading Either a bracelet, necklace or pendant, containing two or more different beading stitches. Entrant must include with the piece a note card identifying the stitches used, the materials and beads used, and whose design it is. Do not put any means identifying the entrant on the card.

Faceting:

A stone faceted with a Portuguese cut. Below is one example of a Portuguese cut. Any Portuguese cut may be used. Include a note card identifying the source of the pattern if another pattern is used.

The Portuguese Cut is a popular and time honored design for larger stones. Due to its greater than normal depth it is best matched to stones of light rather than dark color saturation. While the Portuguese Cut has a large number of facets, it can be faceted using straightforward meet point technique. The high degree of symmetry and relative ease with which smaller facets can be polished make this design relatively fast to cut in larger stones. The visual effect of the Portuguese Cut is often described along the lines of "swirling light"

Beginner Any Material, natural or man-made, with a finished diameter of 9-11 mm.

Advanced Any Material, natural or man-made, with a finished diameter of exactly 6 mm.

| Portuguese Cut | |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Angles for R.I. = 1.54 and up | 161 facets + 16 facets on girdle = 177 |
| 16-fold, mirror image symmetry | 96 index |
| L/W = 1.000 T/W = 0.434 T/L = 0.434 P/W = 0.585 C/W = 0.222 | H/W = (P+C)/W+0.02 = 0.827 P/H = 0.707 C/H = 0.268 |
| Vol./W ³ = 0.307 | Brightness at 0° tilt R.I. = 1.54 COS = 48.5% ISO = 52.5% Brightness at 0° tilt R.I. = 1.97 COS = 65.7% ISO = 76.7% |

| Pavilion | | | |
|----------|-------|-------------------------------------------------|------------------------------------|
| g | 90.00 | 96-06-12-18-24-30-36-42-48-54-60-66-72-78-84-90 | Cut to equal depth, establish size |
| p 1 | 62.00 | 96-06-12-18-24-30-36-42-48-54-60-66-72-78-84-90 | Meet g |
| p 2 | 57.00 | 03-09-15-21-27-33-39-45-51-57-63-69-75-81-87-93 | Meet g, p1 |
| p 3 | 52.00 | 96-06-12-18-24-30-36-42-48-54-60-66-72-78-84-90 | Meet p1, p2 |
| p 4 | 47.00 | 03-09-15-21-27-33-39-45-51-57-63-69-75-81-87-93 | Meet p2,p3 |
| p 5 | 42.00 | 96-06-12-18-24-30-36-42-48-54-60-66-72-78-84-90 | Meet p3, p4 and at culet |

Club contacts

President: Don McLamb, 570 Seabreeze Dr., Indialantic, FL 32903, (321)723-2592

Vice President: Nancy Stark, 1610 Sutschek St. NE, Palm Bay, FL 32907, (321)749-7675

Secretary: Mary Kinberg, 245 Hedgecock Ct., Satellite Beach, FL 52937, (321)223-4260

Treasurer: Liz Ritter, PO Box 500827, Malabar, FL 32950, (321)544-2036

Bulletin Editor: Shannon Byrd, 2225 Ladner Rd. NE, Palm Bay, FL 32907, (321)541-7230

Membership Chairman: Kathie Burnette, 554 Veracruz Blvd, Indialantic, FL 32903, (321) 693-9719

Education Chairman: Dave Wayment, PO Box 780791, Sebastian, FL 32978, (772)532-6432

Corresponding Secretary: Kitty McLamb, 570 Seabreeze Dr., Indialantic, FL 32903, (321)723-2592

Board of Directors 3yr: Dave Jacobson, 672 Manor Place, West Melbourne, FL 32904, (321)676-4306

Board of Directors 2yr: Mark Heathman, 4166 Mockingbird Dr., Melbourne, FL 32934, (321)253-2856

Board of Directors 1yr:

Board of Directors (Past President) 1yr: Keith Stokes, 601 Georgia Ave., Melbourne, FL 32901, (321)266-8707

Librarian: Sue Diebel, 35 Sapphire St. Melbourne, FL 32904, (321)704-3198

Art sent me photos of his new pieces made while at home.

The first four are turquoise from the Bad Boy mine Cripple Creek, CO. The fifth one is larimar, The next three art polycromb Jasper from Madagascar and the last one is copper in quartz.

Hope you like them.



Bulletin Editor

Shannon Byrd

2225 Ladner Rd NE

Palm Bay, FL 32907

Email: shannonb787@gmail.com

The Canaveral Mineral and Gem Society meets the First Wednesday of each month at the Unity of Melbourne Center, Melbourne, Florida. The time of the Meeting is 7:00PM . Visitors are always welcome.

CANAVERAL MINERAL & GEM SOCIETY
NEWSLETTER: MOONSTONE