

Canaveral Moonstone



Presidents Corner



This rainy, cold & stormy weather will be over soon!! At least there is no snow to shovel!

Our Spring (**Dolly's**) picnic (March 19) is only 2 months away. Now is the time to plan your participation. It will again be at the Goode Park in Palm Bay on Turkey Creek and everyone will bring their favorite picnic dish to share. CMGS will provide the Drinks, Burgers, Dogs and Condiments.

Tailgating prior to the party is encouraged.



Melissa will again be our Auctioneer. She needs donations to offer!! Bring items for the auction to our meetings in February, March and April (the sooner the better!!). Melissa has also offered to pick up items if you call her (321-960-4234). If you can not bring items to the February meeting she would appreciate knowing that you are planning to donate.

In addition to the funds raised at the picnic auction, funds from our monthly raffles, member use of our shops, participation in our Rock Swap and our Parade of Gems, and our member dues, all support our CMGS financial well being. Additional fund raising ideas are needed (Two have been mentioned and are being considered).

To expand on member shop usage:
 CMGS members must make more usage of our shops!
 Additional members must commit to teach classes!
 More members must participate in the classes!



Don

Exchange Bulletins are Welcome

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

The Dead Line for the February Moonstone is January 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.

February 2020

Sun Mon Tue Wed Thu Fri Sat

						1 Open shop 8:30AM-12:30
2	3 Open Shop 5:30—9:30 PM	4	5 7PM Monthly meeting at Unity	6	7	8 Open shop 8:30AM-12:30
9	10 Open Shop 5:30—9:30 PM	11	12	13	14 Happy Valen- tines Day	15 Open shop 8:30AM-12:30
16	17 Open Shop 5:30—9:30 PM	18	19	20	21	22 Open shop 8:30AM-12:30
23	24 Open Shop 5:30—9:30 PM	25	26	27	28	29 Open shop 8:30AM-12:30

Open shops are held at the new workshop at 255 East Drive in Melbourne

3rd Annual CM&GS Rock Swap

March 21, 2019

Wickham Park.

The rock swap will be held at Pavilion #4 on the east side of the second (north) lake at Wickham park just past the dog play area.

The public is invited, entrance is free. All vendors must pay a \$15 fee to cover expenses. The first 14 vendors can make a reservation for an 8 foot picnic table under the pavilion shelter. Other vendors can tailgate or use the parking and grass areas.

The rock swap will run from 9:00AM - 3:00PM. Vendors can begin setting up at 8:30AM.

Contact Mark Heathman at 321-474-1406 to make a reservation.

Dolly's Picnic

Sunday April 19, 2018

You can bring donations for the auction to our February or March monthly meetings. Melissa Horan would like to be contacted via "4memelissa@gmail.co" if you are donating large items that will need to be transported.

We will also have tailgating in the parking lot before dinner is served.

Directions coming south from Melbourne:

Going south on US 1, turn right onto Port Malabar Blvd NE. Turn right onto Bianca Drive NE. Follow Bianca Drive to the park.

Directions coming north from Palm Bay:

Going north on Babcock Rd turn right onto Port Malabar Blvd NE. Turn left onto Bianca Drive NE. Follow Bianca Drive to the park.

Canaveral Mineral and Gem Society January 8, 2020 Meeting Minutes

President Don McLamb opened the meeting Wednesday, January 8th at 7:05 pm at The Unity of Melbourne Hospitality Room, 2401 North Harbor City Blvd.

Don welcomed 5 guests, many new to the warmer weather.

Don stated that we are very low on teachers and asked that that all members think about what classes they can teach. It would benefit everyone in the club if we could get more teachers. Please think about any skills you can learn better so that you can teach classes or about making time so that you can teach.

December meeting minutes were approved and accepted.

Liz Ritter, Treasurer, went over the current expenses and income for the club. Things are still coming in from the Parade of Gems and as such she is working on the numbers. Liz also announced that if you would like to be reimbursed for any expenses, you must have a receipt.

Kathy Burnette said our membership is up to 164. Membership dues for 2020 is due now. Dues is \$30 a year and needs to be paid by March.

Sue Diebel brought in an enamel book from the library to share. If anyone would like to check it out tonight please let her know. Also, she has been collecting brochures from all over for different gem shows. If you are traveling and would like to check out shows in different states please look through the brochures in the shop. Also, if you see information about different shows in other areas, please bring the info back to the club to share.

Canaveral Mineral and Gem Society (continued)
January 8, 2020 Meeting Minutes

Dave Wayment made an announcement about upcoming classes. In the past you could only sign up for classes by putting your name in a book for a specific class. Beginning in February, the monthly classes will be listed on the back of the meeting agenda. Make sure you attend the monthly meeting so that you are aware of the classes being taught that month and can let the teacher know if you can attend the class.

Dave also reminded everyone that if you are at the shop even if you're only using one piece of equipment and doing one thing, please sign in and pay the fee for using the shop.

The estimated Budget for 2020 is printed on the back of the Agenda. Don noted that we are \$1800 short on this budget. We're hoping the classes will pick up and help bring in income for the club so we will not be short. Don asked for everyone to review the budget.

The budget was approved and accepted for 2020.

Melissa Horan also announced that we need donations for Dolly's picnic. The picnic will be held on Sunday April 19th. Please put the picnic on your calendar and bring in your donations.

Mark Heathman will be having surgery and will not be teaching his faceting class in January or February but he is hoping to teach in March. Please let him know if you're interested in taking his faceting class so he can figure out a schedule.

Mark also announced that the Rock Swap will be held on March 21st at Wickham Park. If you want to rent a table, please let him know right away and pay your \$15. If he runs out of tables, you can bring your own table but it will still cost \$15 if you bring your own table. There are 13 tables still available.

Please let Shannon know if you're not getting the Moonstone. She announced some of the local gem shows that are being held. They should be listed in the Moonstone. Shannon announced that she is probably moving out of state this year. We'll all miss her. She will need someone to take over the Moonstone and is looking for someone who might be able to teach wire wrapping. Please let her know if you can help in these areas.

The mineral of the month is Azurite. Dave Jacobson said Azurite is a minor ore of copper and is a very popular mineral because of its color – blue.

Show and Tell:

Joe Bina brought in slabs that he recently purchased from a local rock place. He bought 50 lbs of rocks for \$24. He enjoys cutting up rocks and showed some of his slabs. If you want some help in slab cutting, check with Joe.

Melissa Horan brought in Azurite samples. Some of her samples have malachite mixed in.

Shannon Byrd also brought in some samples of Azurite.

Mary Kinberg
Secretary

Mineral of the Month—Quartz var. 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.

Gem stones 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>.

Microsoft® Encarta® Encyclopedia 99

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)

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.



USING YOUR THUMB

When using multiple bits in a Foredom, we often have to deal with different shaft sizes - the usual 3/32 inch burs, the larger 1/8 inch shafts sizes and of course the many different sizes of twist drills. For some reason I really dislike having to turn the key multiple times to open or close the jaws of the handpiece chuck.



So I have two ways to speed up that task. For opening up the jaws, I just remember "four", the number of turns I have to make to open the chuck just enough from the 3/32 bur shaft size to the larger 1/8 bur shaft size.

For closing the jaws around a smaller shaft, there's a neat trick. Hold the new bit in the center of the open jaws of the chuck, put your thumb lightly onto the outer toothed collar of the chuck, and gently start up the Foredom. As the chuck turns, it will naturally tighten the jaws around the bur shaft or the drill bit. Then all you have to do is a final tightening with the key.



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

Coming Gem & Mineral Shows

Central Brevard Rock and Gem Show - 02/01/2020

Date: 02/01/2020 – 02/02/2020

Venue: Kiwanis Island Recreation Ctr
Address: 951 Kiwanis Island Park Road
Kiwanis Island Recreation Ctr
Merritt Island, FL 32952

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

Types: Rock & Mineral Shows

Bone Valley Gem, Mineral & Fossil Society Show - 02/22/2020

Date: 02/22/2020

Venue: First Presbyterian Church
Address: 175 Lake Hollingsworth Dr
First Presbyterian Church
Lakeland, FL

Website: <http://www.bonevalley.net/>

Types: Rock & Mineral Shows, Jewelry & Lapidary Shows, Bead Shows

The Villages Gem & Mineral Show - 02/23/2020

Date: 02/23/2020

Venue: Sea Breeze Regional Recreation Center
Address: 2374 Buena Vista Blvd
Sea Breeze Regional Recreation Center
The Villages, FL 32162

Website: <http://thevillagesgemandmineralsociety.com/>

Types: Rock & Mineral Shows, Jewelry & Lapidary Shows

SFMS Rockhound Round-Up - 03/06/2020

Date: 03/06/2020 – 03/08/2020

Venue: Spirit of Suwannee Music Park
Address: 3076 95th Dr
Spirit of Suwannee Music Park
Live Oak, FL 32060

Website: <https://www.facebook.com/pg/Southeast-Federation-of-Mineralogical-Societies-317959434999844/posts/>

Types: Rock & Mineral Shows

Suncoast Gem and Mineral Society Annual Gem, Mineral & Jewelry Show and Sale - 03/06/2020

Date: 03/06/2020 – 03/08/2020

Venue: Banquet Masters
Address: 13355 49th St N
Banquet Masters
Clearwater, FL 33762

Website: <http://sgams.com/>

Types: Rock & Mineral Shows

Jacksonville Gem & Mineral Show - 03/13/2020

Date: 03/13/2020 – 03/15/2020

Venue: Jacksonville Gem & Mineral Society
Address: 510 Fairgrounds Pl
Jacksonville Gem & Mineral Society
Jacksonville, FL 32202

Website: http://jaxgemandmineral.org/jgms_show.htm

Types: Rock & Mineral Shows, Jewelry & Lapidary Shows

Please let me know if you are aware of a gem and mineral show that is not listed here.

shannonb787@gmail.com

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

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