

Canaveral Moonstone



Presidents Corner

We hope that all CMGS friends had a tremendous Christmas, Chanukah, and Holiday season and we wish you all a prosperous 2019.

More than 50 of us had an outstanding party at the Front Street auditorium on Thursday, 12/13/18. Mark built a magnificent tree again and Kathie performed her magic of Yankee Trader. Every one contributed to the delicious collection of foods we enjoyed. Thanks to the many that could stay and help clean-up after the fun. It was the quickest operation I can remember. It looked like no one had been there.



Plan to enjoy your CMGS to the fullest this year;

- * Participate in our monthly meetings
- * Encourage your friends to join
- * Present a Program (contact Nancy)
- * Teach classes
- * Sign-up for our classes
- * Take Classes at Wild Acres and William Holland (and share your experience)
- * Develop your skills at our Henegar shops
- * Participate in show-and-tell each month
- * Support Your Officers and Board Members; Volunteer to be one
- * Volunteer to support Parade of Gems



Happy New Year!!

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, 2019

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 at the Henegar Center, 625 E. New Haven Ave., Melbourne, Florida. Meetings start at 7:00 p.m. Visitors are always welcome! Dues are \$20.00. Junior Member dues are \$2.00.

January 2019

Mon Tue Wed Thu Fri Sat

		1	2 Monthly meeting 7PM	3	4	5 Open Shop 9 am-12 pm
6	7 Open Shop 6 pm—9 pm	8	9	10	11	12 Open Shop 9 am-12 pm
13	14 Open Shop 6 pm—9 pm	15	16	17	18	19 Open Shop 9 am-12 pm
20	21 Open Shop 6 pm—9 pm	22	23	24	25	26 Open Shop 9 am-12 pm
27	28 Open Shop 6 pm—9 pm	29	30	31		

What Makes a club a good club? A club is an association of two or more people united by a common interest or goal. A service club, for example, exists for voluntary or charitable activities. There are clubs devoted to hobbies and sports, social activities clubs, political and religious clubs, and so forth.

Our club, The Canaveral Mineral and Gem Society is for the preservation, support, and promotion of the hobby of Mineralogy and its various forms of allied activities and earth sciences.

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.

In order to make our club successful with our goals we must all work together. There are several opportunities to participate in our club activities;

- ◇ Teaching classes
- ◇ create and present programs
- ◇ Volunteer to help when a program is in process like the annual picnic or the Parade of Gems.
- ◇ Help someone teach a class

Be active and involved to get the most out of the club and also to give back to the club. I love that there is so much to learn and so many wonderful people to get to know.

December Business Report - December 5, 2018

The meeting was called to order by President Don McLamb on December 5, 2018 at 7:10 pm.

Don welcomed visitor Laura Engelbrecht. She attended the Gem Show and wanted to attend a meeting.

On December 13 the club will have the Holiday Party at Front Street at 5:30 pm. If you want to participate in the gift exchange, bring a \$10 gift. No names on the gift except if it's gender specific.

Nancy Stark, Vice President, announced that our guest speaker in March will be Renee Newman, an author of many gemstone books. She will be selling some of her books at our meeting in March however if you want her to bring specific books, please let Nancy know.

The November minutes were accepted and approved.

Treasurer, Liz Ritter went through many of the expenses and profits of the Gem Show.

Membership Director, Kathie Burnette said we are up to 165 paid members. Members will need to pay their membership dues, \$20, by the 1st of March. Bring a check or cash to pay for membership.

Education Director, Dave Wayment said classes will begin after the 1st of the year. Roy Deere will be teaching chain mail 2 days a week and Haydee Hernandez is starting a beading class.

Mineral of the Month- Dave Jacobson spoke about Borax (means white in Arabic.) If you do casting, you have probably used it as a flux. It was originally discovered in Tibet, now is mined in California, Germany, Italy and Chile. Colors are white, yellowish or blueish. It is used in glass, fertilizer, pottery glazes and many other things.

Art DeLaurentis showed 2 beautiful inlaid bracelets and amazing mookite inlaid knife that he recently made. He also had two Carolina mineral necklaces that he faceted in 1978.

Don Oneal cabbed many beautiful petrified wood pieces and also brought some rough cut petrified stones to compare.

Joe Bina showed different interesting slabs for comparison that he bought at the Gem Show.

Nancy Stark gave an informative and impressive slide show and lecture regarding the Biltmore's exhibit of Chihuly Glass. We were very lucky to be able to see Mark Heathman and his wife's amazing Chihuly studio piece, an Emerald Persian Pear from 2007. What a treat!

The Rock Swap will be held on March 23rd at Wickham Park on the 2nd lake. The fee to sell items is \$10. The first 15 people will be able to get a picnic table. You will be able to sell or trade the rocks you don't want. Contact Mark Heathman at 321-474-1406 if you are interested.

Melissa reminded everyone to start collecting items for the auction for Dollie's picnic. Melissa and Pat would be willing to come pick your auction items up.

Don announced the budget is on the back of the agenda. The budget was approved.

Mary Kinberg
Secretary

Mineral of the Month - Diamond

By Dave Jacobson

This month we will take a brief look the hardest mineral on the Mohs scale, with a reading of 10, diamond, C, crystallized carbon. Diamond is used a gemstone and an industrially as an abrasive. As lapidaries and faceters we are using diamond all the time. Small diamonds are also used as specimens in mineral collections. Some of the more famous localities where diamonds are found are: South Africa and several other localities in Africa: India, Brazil, Russia, Australia and Arkansas in the United States. In the December 1998 issue of *Rock & Gem* magazine there was an article about diamond collecting in Crater of Diamonds State Park, in Murfreesboro, Arkansas.

Some interesting facts follow. Diamond is a very good thermal conductor. It is 5 times better than the second best thermal conductor, silver. Diamond has the highest melting point which 3820 degrees Kelvin. Diamond has the greatest lattice density which means the atoms are packed tighter together than in any other substance. Diamond also transmits light over a greater range of wavelengths (from ultra violet through the far infrared) than any other substance.

Diamond is in the isometric crystal system. Typical habits are cubes and octahedrons. Diamond has perfect cleavage in four directions, which means, as hard as it is, if it receives a hard blow in one of these directions it can split. In a diamond each atom is at the center of a tetrahedron of four other carbon creating an extremely strong framework although in one direction the structure has fewer bonds resulting in the cleavage plane. This cleavage plane repeats via symmetry to form an octahedron. Diamond comes in many colors with variations of each color including yellows, browns, grays, white, blue, black; reds, greens and colorless. Specific Gravity is 3.5. Hardness is 10. Streak is white.

Diamond and graphite are both polymorphs of the element carbon. Both are carbon but have completely different forms and structure. Some interesting facts about both follow:

<u>Graphite</u>	<u>Diamond</u>
One of the softest minerals	Hardest mineral
Good conductor of electricity	Insulator
Good lubricant	Ultimate abrasive
Opaque	Usually transparent
Hexagonal crystal system	Isometric crystal system

The differences between diamond and graphite are due to the atomic structure of each mineral. In graphite the atoms are closely spaced in planes with wide spacing between the adjacent planes. There is a tight bond between the planes of atoms but a weak bond between the adjacent planes. In a diamond the atoms are equally spaced. Each atom is at the center of a tetrahedron of four other carbon atoms creating an extremely strong framework.

Diamond takes it's name from the Greek *adamas* meaning "invincible" or "hardest".

I used the following reference materials 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.

The Audubon Society Field Guide To North American Rocks And Minerals by Charles W. Chesterman.

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

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

Rocks And Minerals by Chris Pellent

Min Search a shareware mineral identification program by *dp* Software, Warren, New Jersey.



Bench Tips by Brad Smith

Learn New Jewelry Skills With Brad's "How To Do It" Books
[Amazon.com/author/bradfordsmith](https://www.amazon.com/author/bradfordsmith)

STIFFENING EARRING POSTS

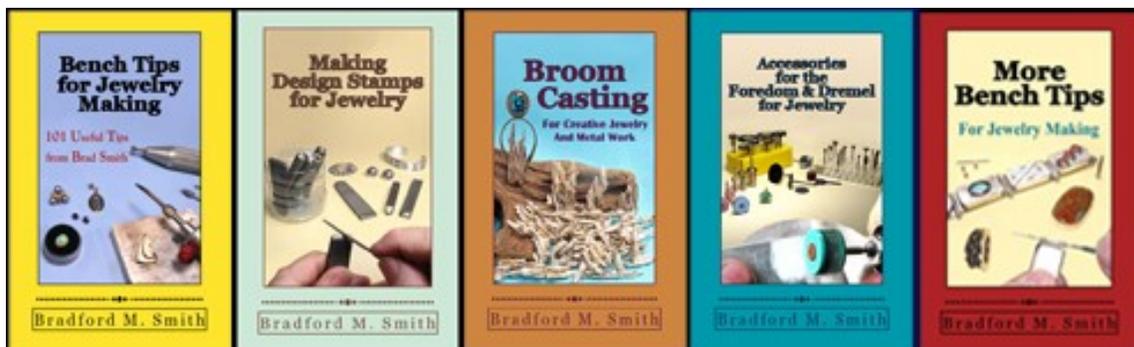
Soldering an earring post will always soften the wire a bit. The easiest way I've found to harden it is to grip it with pliers and twist it a couple half turns. This work hardens the wire and also tests your soldered joint.

SOLVENT DISPENSER

Frequently I need to fill a small bottle with alcohol, like the bottle of an alcohol lamp or a nail polish bottle that I use for the yellow ochre anti-flux. Often I can't find a small funnel and end up spilling almost as much as I get into the bottle. It's wasteful, and the fumes aren't too good for you either.

A neat and inexpensive solution is to use a lab dispensing bottle to store small quantities of the solvents most frequently used. The bottles have a wide mouth for filling and a fine tip for dispensing. You can get a small stream or just a drop or two. With the bottle's fine tip I don't spill a drop.

A Google search will turn up many suppliers. One I've used is Carolina Biological Supply Company at www.carolina.com The bottle is Catalog # 716580 Unitary Wash Bottle, Low-Density Polyethylene, 125 mL US\$ 5. They have several sizes and other bottles labeled for specific solvents.



Upcoming Gem and Mineral shows**January 2019**

11-13—LARGO, FLORIDA: Show and sale; Pinellas Geological Society; Central Park Performing Arts Center, 105 Central Park Drive; Fri. 10-5, Sat. 10-5, Sun. 12-5; Free - \$2.00 donation for hourly drawing; Free Kids Rock Bags, Silent Auction, Hourly drawings; contact Leona Feldhausen, 2655 Nebraska Ave #247, Palm Harbor, FL 34684; Email: sheffieldleona@gmail.com; Website: www.PGS.Rocks

11-13—SARASOTA, FLORIDA: Show and sale; Frank Cox Productions; Sarasota Municipal Auditorium, 801 N. Tamiami Trail (US. 41); daily 10-5, daily Select Start Time-Select End Time; \$5, visit www.frankcoxproductions.com to receive a coupon to save \$1 on admission; show and sale of gems, jewelry, crystals, minerals, fossils and beads; contact Frank Cox Productions, 755 S. Palm Ave. #203; Website: <http://www.frankcoxproductions.com/>

18-20—ST. PETERSBURG, FLORIDA: Show and sale; Frank Cox Productions; The Coliseum, 535 - Fourth Ave. N.; daily 10-5, daily 10-5; \$5 (visit www.frankcoxproductions.com to earn a coupon to save \$1 on admission); show and sale of gems, jewelry, crystals, minerals, fossils and beads; contact Frank Cox Productions, 755 S. Palm Ave. #203, Sarasota, FL 34236, (941) 954-0202; Email: frankcox@comcast.net; Website: www.frankcoxproductions.com

19-20—DELAND, FLORIDA: Annual show; Tomoka Gem & Mineral Society; Volusia County Fairgrounds (Tommy Lawrence Arena), 3150 E New York Ave.; Sat. 10-6, Sun. 10-5; \$4 (visit tomokagms.org to receive a coupon for \$1 off), free admission for children 12 and under with paid admission of an adult; more than 50 vendors offering minerals, fossils, slabs, and jewelry, silent auction, and activities for children; contact Mary DeJan, 1000 Walker St Lot 292, Holly Hill, FL 32117, (389) 871-6221; Email: tomokagmsvendor@gmail.com; Website: tomokagms.org

February 2019

2-3—MERRITT ISLAND, FLORIDA: Annual show; Central Brevard Rock and Gem Club; Kiwanis Recreation Center, 951 Kiwanis Island Park Rd; Sat. 10-5, Sun. 10-4; \$5, \$1 off coupon in Florida Today or website (centralfloridagems.org), free for kids under 12 when accompanied by a paying adult; will include more than 20 vendors selling hand made and finished jewelry, rocks, minerals, slabs, gemstones, and gem trees, sluice and spinning wheels, a silent auction, door prizes and a grand prize, and faceting and cabbing demonstrations.; contact Rosalind Mestre, 1867 Longleaf Rd, Cocoa, FL 32926-6449, (321) 431-0159; Email: roz.mestre@att.net

8-10—MELBOURNE, FLORIDA: Annual show; Frank Cox Productions; Melbourne Auditorium, 625 E. Hibiscus Blvd.; daily 10-5; \$5 / \$4 if you mention this listing; show and sale of gems, jewelry, crystals, minerals, fossils and beads.; contact Frank Cox, 755 S. Palm Ave. #203, Sarasota, FL 34236, (941) 954-0202; Email: frankcox@comcast.net; Website: <http://www.frankcoxproductions.com>

15-17—SARASOTA, FLORIDA: Show and sale; Frank Cox Productions; Sarasota Municipal Auditorium, 801 N. Tamiami (U.S. 41); daily 10-5; \$5.00 / \$4.00 if you mention this listing.; show and sale of gems, jewelry, crystals, minerals and beads; contact Frank Cox Productions, 755 S. Palm Ave. #203, Sarasota, FL 34236, (941) 954-02; Email: frankcox@comcast.net; Website: <http://www.frankcoxproductions.com>

23-23—LAKELAND, FLORIDA: Annual show; Bone Valley Gem, Mineral & Fossil Soc.; First Presbyterian Church, 175 Lake Hollingsworth Dr.; Sat. 9-4:30; \$3, free admission for students, small children, and teachers; vendors offering rocks, minerals, fossils, and jewelry; demonstrations; displays, and activities for children; contact Kim Price, P.O. Box 90631, Lakeland, FL 33804, (863) 412-9156; Email: lbgmfs@gmail.com; Website: [Bonevalley. Net](http://Bonevalley.Net)

March 2019

1-3—LARGO, FLORIDA: Annual show; Suncoast Gem and Mineral Society (SGAMS); Minnreg Hall, 6340 126th Ave. N.; Fri. 10-6, Sat. 10-6, Sun. 10-5; \$5 donation for adults and \$4 for students good for all three days, free admission for children under 6, save \$1 by presenting flier, military ID, or an ad from the Tampa Bay Times or website; 49th annual show and sale featuring finished and rough gems presented by dealers and SGAMS members, also on offer is jewelry, beads, minerals and tools; additional highlights include a grand prize drawing, silent auction, member display cases, demonstrators, gem mining and grab bags; contact Bill Schmidt, Suncoast Gem and Mineral Society, P.O. Box 13254, St Petersburg, FL 33733-3254; Email: SGAMS-gemshow@gmail.com; Website: www.sgams.com

If you know of a show that is not on this list, please send me the information at shannon-b787@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

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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: Roy Deere, 7041 Rodes Place, West Melbourne, FL 32904, (321)725-9179

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

Bulletin Editor

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

CANAVERAL MINERAL & GEM SOCIETY
NEWSLETTER: MOONSTONE