

Canaveral Moonstone



Presidents Corner



The good news continues; no hurricanes (yet).

I hope all have had a great summer. The fall season is upon us. My CMGS focus continues to be on preparation for our parade of gems in November. I welcome all inputs on how to improve our show.



Our silent auction at the show is always popular and raises a great deal of money for us. It is not too early to start collecting items to donate to the auction. We will have a box at the Henegar at our September, October & November meetings for your convenience.

We also need donations for our monthly raffles to fund our member scholarships to William Holland and Wild Acres in 2017. These donations should be given to Shannon.



As I noted last month, the nominating committee, for our CMGS Officers & one Director for 2017, will be meeting soon. Any member who is interested in being considered should contact me or our Vice President, Nancy Stark.

Don

Exchange Bulletins are Welcome

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

The Dead Line for the October Moonstone is September 20, 2016

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

Feel free to send me articles or pictures for the newsletter at shannonb787@gmail.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 August) 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.

Editors Notes

By Shannon Byrd

Join us on September 7 for our regular monthly meeting. Bring your new creations and a snack to share your with the group. If you are taking a class or just finished a class bring in the items you made in class so others can see what is being made and if they would like to take the class.

The Canaveral Minereal and Gem Society Cookbook is being worked on by Pegatha and she needs your Recipes. Please send your recipes to Pegatha at mempkm@me.com for the CMGS cookbook.

Our raffles have been a lot of fun and continue to raise funds to send 2 lucky members of the club to William Holland or Wildacres each year. Thank you to those that participate and those that continue to donate items for the raffle.

September 2016

Sun Mon Tue Wed Thu Fri Sat

				1	2	3 Open Shop 9AM—12PM
4	5 Labor Day— Shop will be closed	6	7 Monthly Meeting for September 7PM	8	9	10 Open Shop 9AM—12PM
11	12 Beading Class & Open Shop	13	14	15	16	17 Open Shop 9AM—12PM
18	19 Beading Class & Open Shop	20	21	22	23	24 Open Shop 9AM—12PM
25	26 Beading Class & Open Shop	27	28	29	30	

* Monday Beading Classes are 1PM—4PM and 5PM— 7:30 PM Monday Open Shop 6PM—9PM

Bench Tips by Brad Smith See all Brad's jewelry books at Amazon.com/author/BradfordSmith

RAISING A CABOCHON

When a cabochon sits too low in a bezel, the bezel hides a lot of the stone. The solution is to either sand down the bezel height or boost up the stone. If you're going to raise it up, question is what is the best material to use?

I was taught to use fine sawdust but now think that might be a problem when used in rings. I reason that rings will frequently get wet, which would cause the sawdust to swell in size and push the stone against the bezel. Then when the sawdust dries out, the stone would be a little loose.

In any case, I now prefer pieces of plastic sheet to boost up my stones. Pieces are readily available from product packaging or from old credit cards. I just cut a piece to loosely fit the bezel and drop in the stone (with some dental floss) to check its height.

TRANSPARENT CAB

When bezel setting a transparent cabochon in silver, I usually cut out the back of the bezel to allow background light to show off the colors and patterns in the stone. If this is not possible or appropriate, I worry that the silver bezel will tarnish under the stone and will ruin its brilliance. What to do?

My solution is one extra step before setting the stone. I place a piece of thin silver Mylar plastic under the stone to act as a mirror that will never tarnish. Mylar is readily available in craft and gift wrap stores, or in a pinch from a party balloon supplier. You may even want to experiment with using colored or patterned Mylar (i.e. diffraction pattern) under some stones.

August Business Report August 3, 2016

The meeting was called to order by President Don McLamb. He led us in the Pledge of Allegiance.

We welcomed new guests and members Fay Williams, Peter Brugger and Christopher Messina.

Don mentioned there was a Frank Cox Bead and Gem show the upcoming weekend at the Melbourne Auditorium. He also mentioned that the July Moonstone had the June minutes in it due to the club not having an official meeting in July due to our annual Open House. He stated there would be an open invitation in his opal class to fill the class.

Liz Ritter gave the Treasurer's report and urged folks pay attention while cabbage because we just had to pay 900 dollars to get the wheels resurfaced due to improper wearing of the middle of the wheels.

Kathy Burnett gave the membership update and stated we now have 163 members. Wow! She stated to tell folks wanting to join the club, the yearly dues are now \$10 until November due to the time left in the year.

Art DeLaurentis presented the Mineral of the Month, Smithsonite. It comes in various colors. The example brought in was a Turkey Fat due to the coloring. It is a secondary mineral forming in the weathered zone of zinc deposits. It is found in various places around the world.

Art DeLaurentis also presented Show and Tell. Haydee Hernandez showed some pearl knotting and bead knitting/netting techniques around all kinds of objects from buttons to cabochons to etched glass. She will be teaching this technique in August at her beading workshops which take place on Mondays between 1-4 P.M and also at 5-8 P.M. Gina Salazar brought in her projects from Roy Deere's chain maille class. Shannon Byrd brought in projects she's done at home and class in cabochoning and chain maille and both techniques together. Mark Heathman brought in some projects of silver smithing pendants with opals, turquoise, amethyst and peridot. Liz Ritter brought in projects from Roy's class in chain maille and explained how sizing in the rings is something to pay attention to in detailed projects. Herrick Jeffers showed his work from Art DeLaurentis class in cabochoning and a chain maille pendant made. Keith Stokes showed jasper cabochons from Art's class while still on the wax dops. Denise Jackson showed the cabochons made in Art's class, stating the heart shape was a challenge. Art explained that a single wheel machine is sometimes needed to be able to get into the the angles of specialty cuts or a Dremel/Fordham can help grind and polish the stone. Debbie Jorgeson showed her latest creations in silversmithing using liver of sulfur as a patina and layering with a design pressed silver. Christine Miller showed her pearl knotting from Art's class. Susan Cash showed her projects from Roy's chain maille class. Thanks everyone for sharing our projects and thanks to the teachers for sharing their knowledge!!!!!!

Mark Jackson brought in the book for everyone to sign up for more classes!!!!

There was a reminder that the SFMS workshops at William Holland and Wild Acres are now in session We as the CMGS represent well!!!

Raffle time for scholarship to those workshops brought Bill Harr scoring a polymer clay book. Herrick Jeffers nabbed an Alaskan Jade slab and Sara Denaburg chose a beaded cabochon donated by Miss Haydee.

After a refreshment break, Bill Harr gave a very interesting impromptu presentation on the crystals we eat. Salts to sugars to starches to ice to yes, even chocolate, it's amazing to think about the organics what we put in our bodies for flavor and nourishment. Thanks Bill!!

See you in September! Rock on!!! Respectfully yours, Denise Jackson, 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.

Upcoming Gem and Mineral Shows

September 23-25, 2016

Jacksonville Gem & Mineral Society

Rocks, Gems, Jewelry and More

Friday: 10 AM to 6 PM,
Saturday: 10 AM to 6 PM,
Sunday: 10 AM to 5 PM

Morocco Temple, 3800 St. Johns Bluff Road South, Jacksonville, Florida 32224

October 7th, 8th and 9th, 2016

Florida National Guard Armory, 2809 South Fern Creek Ave., Orlando

Central Florida Mineral and Gem Society, a non-profit educational organization, is hosting a Rock, Mineral, Gem, Jewelry & Fossil Show on October 7th, 8th and 9th, 2016 at Florida National Guard Armory, 2809 South Fern Creek Ave., Orlando, FL 32806. Show time: Fri. 1 pm to 6 pm, Sat. 10am to 6pm and Sun. 10am to 5pm. Vendors offering beads, minerals, gemstones, custom jewelry, fossils, artifacts, metaphysical stones, etc. Silent Auction and Door Prizes. Demonstrations: beading, cabochons and wire wrapping. Family Activities. Contact: phayes3@cfl.rr.com. Admission: Adults \$5, Students \$2, Uniformed Scouts Free. Website: www.cfmgs.org.

October 15-16, 2016

PLANT CITY, FLORIDA

Annual show; Tampa Bay Mineral & Science Club

Live demonstrations including cabochon cutting, wire wrapping, flint napping, gem trees, chainmaille and more. Bid for bargains at our silent auction and win door prizes throughout the day. Kids can explore the touch table and prospect for treasure at our sluice box. Perfect opportunity to shop for that special gift for the holidays.

Plant City Strawberry Festival Expo Hall; 2301 W. Oak Ave.; Sat. 10-5, Sun. 10-5; Adults/Seniors \$5, Students \$4, Children under 12 free;

November 12 and 13, 2016

Canaveral Mineral & Gem Society

43rd Annual Parade of Gems

Dealers in lapidary, minerals, fossils, beads, jewelry and gemstones. Demonstrations; Grand Prize; Hourly Silent Auctions; supplies for hobbies and crafts and related activities. Excellent and economical Christmas shopping with one of a kind creations that make wonderful gifts.

Show Times: Saturday and Sunday 10:00 AM to 5:00 PM
Location: Melbourne Auditorium, 625 East Hibiscus Blvd. Melbourne, FL 32901
Admission; \$5 Donation
Contact: Don McLamb, CMGS President & Acting Show Chairman

A Fast Way to DOP with Wax

By Dave Jacobson

When John Almasi came back from his faceting instructing adventure in Tanzania, he remarked to me about the fast way they wax doped in his shop. I asked John to show me as I wanted to try wax dopping. I had been using super glue (cyanoacrylate) and transferring into epoxy. I had good results, but I wound up throwing away more super glue than I ever used. Also, I did not like using Attack or Bix to break down the epoxy. You can dop and remove stones rapidly when using wax. On heat sensitive stones I would still use CA & epoxy.

One afternoon, John taught me the method. We tried both black wax and stick shellac. We had better results with the black wax and that is what I've been using. Following is the method with a few of my adaptations.

Step 1

Position the stone in your transfer fixture on a piece of clay and align the dop. Most of the time I grind a flat on the stone as a temporary table. This makes alignment easier. I use real clay as it is not affected by heat. See Figure 1.

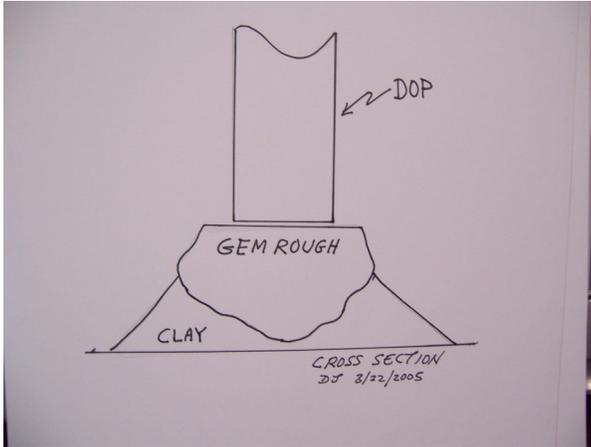


Figure 1

Step 2

I now remove the dop from the transfer fixture and apply the wax in the approximate profile as shown in Figure 2. To prevent burning my fingers I use a short piece of broom handle drilled to accept the dop. I use an alcohol lamp as a heat source.

Step 3

I place the dop back in the transfer fixture and bring it down so the wax contacts the stone. I want the wax to be soft, so that the wax that is in intimate contact with the stone is flat. See figure 3. If the wax has hardened, soften it by painting with the flame from a small butane torch. This is one of my adaptations, as I some times cannot place the hot dop back in the transfer fixture fast enough. At this point you still DO NOT have a good bond to the stone. That comes in step 4.

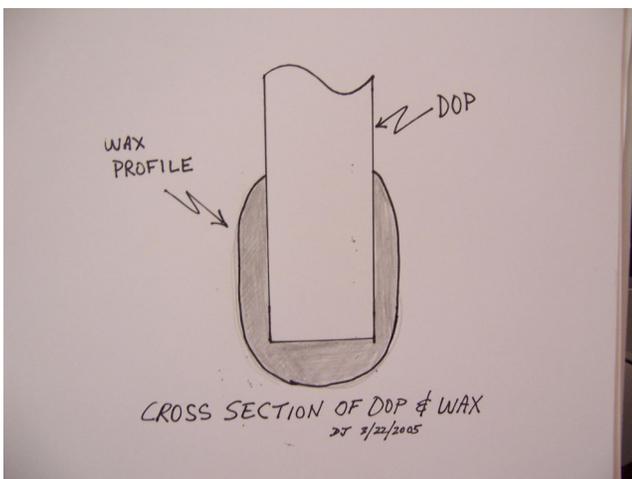


Figure 2

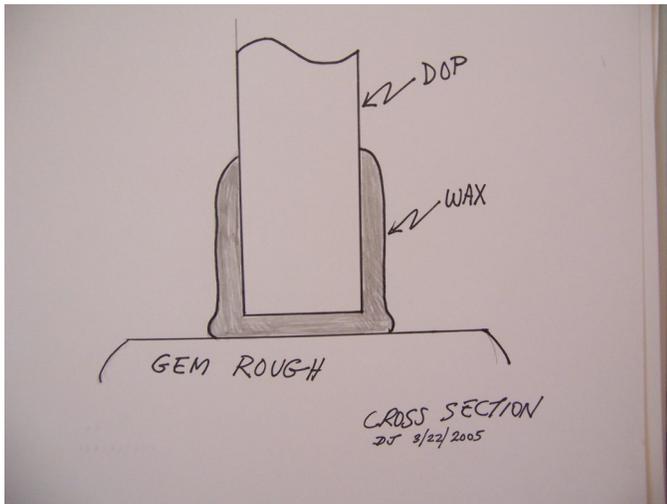


Figure 3

Step 4

Using a small butane torch I gently paint the flame over the wax going around the stone. You don't need a large flame and I'm not sure I even have the visible portion of the flame touching the wax. You will see the wax flow forming a nice fillet. See figure 4. In John's shop they were doing this using an alcohol lamp and rolling the transfer fixture over the flame. I feel I have more control using the butane torch. I use the \$4.99 (when on sale) Harbor Freight torch. That's it. You are ready to facet as soon as the wax cools. This whole procedure takes about 5 minutes.

On transfer I repeat the above procedure. . I have the stone with the completed pavilion in the lower position in my transfer jig. I now fill the cone dop (or any dop) I am transferring to with wax. See Figure 5 for typical wax profile. I place the cone dop in the upper position in the fixture. With the wax still soft I bring it down to the stone, so the stone makes an impression in the wax as in Figure 6. If the wax has hardened I soften it with my butane torch. I do not have the stone make intimate contact with the dop. At this stage you still do not have a good bond to the dop. To achieve the bond you now paint the wax with the flame from the torch as in Step 4. When the wax flows it will form a good bond. The dashed line in Figure 6 shows a typical wax profile after flowing. If some wax flows over the girdle edge I gently scrape it away with an Exacto knife after releasing the flat dop. To release the first dop I protect the stone and the new wax joint with a small strip of wet paper towel and heat the dop I want to remove. The dop falls of in a few seconds.

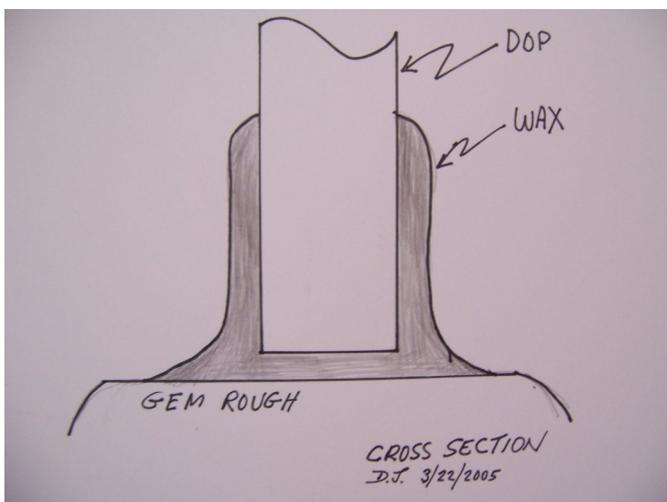


Figure 4

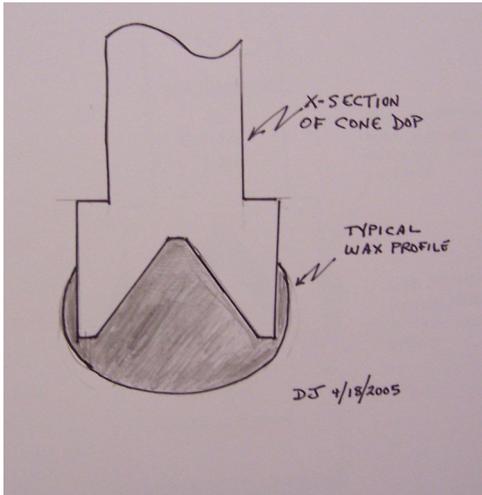


Figure 5

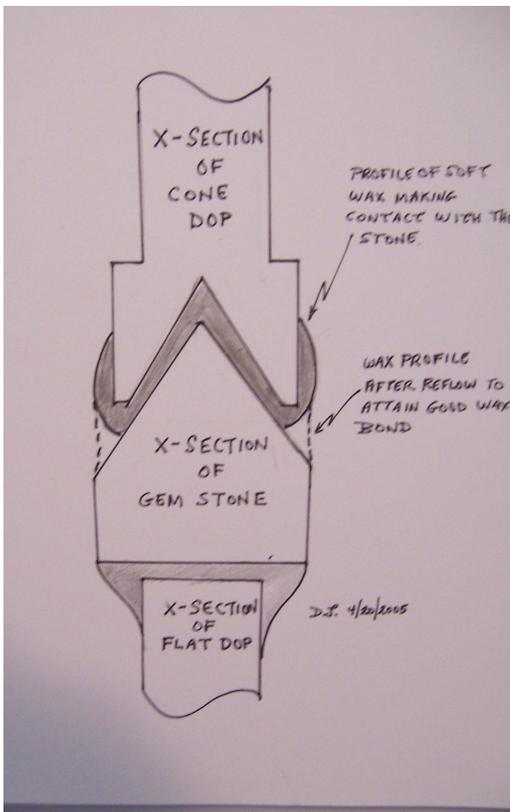


Figure 6

This method also works for cabochons. I mounted a small slab to a 3/8" dowel using green wax with no problems. I have attached tumbled stones using this method prior to slicing in half. Give this method a try. You may like it.

There has been a lot of talk in the shop about doping with wax. So thank you Dave for this article, many of us have been looking for this information.

SFMS Sessions for 2016 - <http://www.sfmsworkshops.com/schedule2016.html>

This is the last class schedule for Wildacres for 2016. You can't believe how much fun it is while you are learning and enjoying the surroundings.

September 19—25

Chain Maille 1-2 - Roy Deere

Gem Identification - Teresa Polly

Casting - Bill Harr

Flint Knapping - Michael Miller

Wire for Beaders - Leslie Wayment

Faceting - Tom Mitchell

Silversmithing - Pattie Appleby

Scrimshaw - Rich Williams

Cold Connections and Enameling - Debora Mauser

Chasing & Repousse 2 - Tom and Kay Benham

Metal Clay 2 - Katie Baum

Club contacts

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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