



**November Meeting
At the Museum of Arts and
Sciences on Monday,
November 02, 2015 at
7:30pm.**

Speaker for the November meeting will be Neil Cowan. He won the prize of a free class at William Holland School of Lapidary Arts at our 2014 Christmas Party. He took a silversmithing class and he will speaking about his experience there.

President's Message

It is with mixed emotion that I come to you this month. We lost our own Rene Smith on October 7, 2015. His funeral was on Saturday, October 10, 2015. Unfortunately, I was unable to attend as it was during the fair and I was not going to leave the booth undermanned for the funeral. I let Jay attend since he had a familiar tie with the family. I will always remember Rene as the man whom put his wife's wants and needs ahead of his own. When I called to

check on them, he always said to remember her in our prayers and that he was okay, only a little run down. He was not one to dwell on his own problems, at least not to me. Every time I stopped in to see her, he was patiently sitting or waiting near her side. We need to see what we can do to assist her with her needs now that he is gone.

On a high note, it is my pleasure to announce that we have sold ALL 500 grab bags by the last night of the fair. We had a lot of people stop by and took applications about the club and expressed interest in the club.

I want to thank everyone for their work and efforts in making this year a success.

Your president,
Jim Souter
jgsouter@windstream.net
478.454.7273



Dues are Due

Another year has gone by in no time. It's that time of the year to pay dues. They remain the same 10 dollars for each adult and 2.50 for children under 18 years of age. They are due by November 1st.

Officer Election Time is here Again!

It is time to start thinking who will be 2016 Officers (President, Vice-President, Secretary, and Treasurer). If you are interested in any of the positions please let Jim know ASAP. They could use a break so please step up to the plate and become an office of our club. **We will be voting for our elected Officers at the November Meeting.**

October Meeting Minutes

The meeting was called to order at 7:36 PM by Jim Souter with 22 members/guests present.

Old Business

The treasurers' report was read and approved. Everyone is reminded that dues are due at this time. We are all reminded to keep Renee and his wife in

your prayers. We continue to sign volunteers to maintain our display at the Perry Fair which starts October 8th. A new member had signed up on line.

New Business

A nominating committee was drafted for the next years elections and consists of Richard Arnold, Jack Jones and Jay Batcha.

This month's mineral was Sand and members brought in specimens to discuss and share. This months speaker was Lori Carter from the Mid Georgia Gem & Mineral society. Her talk surprised everyone in the fact that it was quite interesting and very informative. She provided a slide program that walked you through various types of sand and where they were located. Sand can be made up of almost anything from construction scraps, rock, minerals, fossils and sea urchins. Some of the various ways in which sand is formed are erosion, biogenic and precipitation. She travels around to schools and other groups to inform and teach people about sand. Sand is used by different cultures such as: the Buddhist monks and Navajo Indians for treating illnesses. She was also kind enough to provide some samples of her own collection sands to anyone present. A question and answer session was provided at the end of her talk.

The meeting was adjourned at 8:28 PM.

By: Richard Arnold



Perry Fair News follow-up!

We sold all of our grab bags by the last Saturday of the fair. Looks like we should make 600 bags for next year's fair, if it is possible!

We talked to a lot of potential new members. We handed out over 100 flyers about our club to people interested about the Mid-Ga Gem and Mineral Society.

Everybody enjoyed our display Cases, the fair had given us more display space and a new location in the middle of the building.

The fair was a big success!

By: Jay



Grossular Garnet on Diopside from Jeffrey Mine, Quebec

Mineral of the Month "Garnets"

Garnet, the January birthstone, derived its name from the Latin word granatus, meaning like a grain, which refers to the mode of occurrence wherein crystals resemble grains or seeds embedded in the matrix. Garnet is a family of minerals having similar physical and crystalline properties. They all have the same general chemical formula, $A_3B_2(SiO_4)_3$, where **A** can be calcium, magnesium, ferrous iron, or manganese, and **B** can be aluminum, ferric iron, or chromium, or in rare instances, titanium.

The formulas and names of common garnet species are:

Uvarovite:	$Ca_3Cr_2Si_3O_{12}$
Pyrope:	$Mg_3Al_2Si_3O_{12}$
Grossularite:	$Ca_3Al_2Si_3O_{12}$
Almandite:	$Fe_3Al_2Si_3O_{12}$
Andradite:	$Ca_3Fe_2Si_3O_{12}$
Spessartite:	$Mn_3Al_2Si_3O_{12}$

Some rare species of garnet are known that illustrate the wide range of substitution that the garnet crystal structure can accommodate. They include:

Hydrogrossular:	$Ca_3Al_2(SiO_4)_{3-x}(OH)_x$
Henritermierite:	$Ca_3(Mn,Al)(SiO_4)_2(OH)_4$
Goldmanite:	$Ca_3V_2Si_3O_{12}$
Kimzeyite:	$Ca_3(Zr,Ti)_2(Al,Si)_3O_{12}$
Kuorringite:	$Mg_3Cr_2Si_3O_{12}$
Majorite:	$Mg_3(Fe,Al,Si)_2Si_3O_{12}$
Scharlomite:	$Ca_3(Fe,Ti)_2(Si,Ti)_3O_{12}$
Yamatoite:	$Mn_3V_2Si_3O_{12}$

There are lots of trade and variety names for garnet, most of these names are for particular colors of a specie. Hessonite is the variety name for a fine orange,



cinnamon brown, or pinkish variety of grossularite, while tsavorite is the trade name for fine dark green grossularite. Melanite is a black titanium bearing variety of andradite and demantoid is a rich green variety. Malaya is a trade name for a pyrope-spessartite that varies in color from red, through shades of orange and brownish orange to peach and pink. Rhodolite is a purplish red pyrope-almandite solid solution garnet. Fine-quality pyrope garnets from Czechoslovakia are often called Bohemian garnets. Almandite and almandite-pyrope solid solution garnets are the best abrasive types, but andradite, grossularite, and pyrope also are used. All species of garnet have been used as gemstones.

Garnet displays the greatest variety of color of any mineral, occurring in every color except blue. For example, grossularite can be colorless, white, gray, yellow, yellowish green, various shades of green, brown, pink, reddish, or black. Andradite garnet can be yellow-green, green, greenish brown, orange yellow, brown, grayish black or black. Pyrope is commonly purplish red, purplish red, orangy red, crimson, or dark red; and almandite is deep red, brownish red, brownish black or violet-red. Spessartite garnet can be red, reddish orange, orange, yellow-brown, reddish brown or blackish brown. A few garnets exhibit a color-change phenomenon. They are one color when viewed in natural light and another color when viewed in incandescent light.

The use of garnets as a gem or gemstone can be traced to prehistoric times. However, the first industrial use of garnet appears to have been as coated sandpaper manufactured in the United States by Henry Hudson Barton (founder of Barton Mines Corp.) in 1878. Its use has grown from that single sample of garnet coated sandpaper, to world industrial uses of more than 110,000 tons per year. In 1994, United States production of industrial garnet was valued at about \$14 million, while gem garnet production was valued at only about \$233,000.



Spessartine Garnet with Smoky Quartz from China



Field trips coming up, lets go digging!!!

DMC Program of the SFMS Field Trip Committee

**Gaston County Gem, Mineral &
Faceting Club (Gastonia, NC) (Host)**
 An Official Field Trip of the Mid-Ga
 Gem and Mineral Society.

Saturday November 7, 2015
8:30AM – 4PM

Propst Farm, Lincoln County, N.C.
**(Euhedral corundum crystals in
various colors)**

FEE \$20 per person

Description: Property has and still is yielding corundum, since the 1960's. Owner has recently plowed a "new" small area and is holding it open for the DMC before he replants it. This a brand new area that he has opened for one other small group and us, plus the historical dig area is still opened and will certainly be used by DMC collectors.

Fee: Adult collectors - \$ 20.00 pp, Children 12 years or younger - \$5.00.

Children: Under adult supervision.

Pets: On a leash!

Rain or Shine: This field trip is rain or shine.

Tools needed: Shovel, screen if you have one, maybe small rock pick/hammer (ground/clays very hard and compact), small bucket to collect in. Extra change of clothes and shoes - can be muddy depending on rain amount in the season.

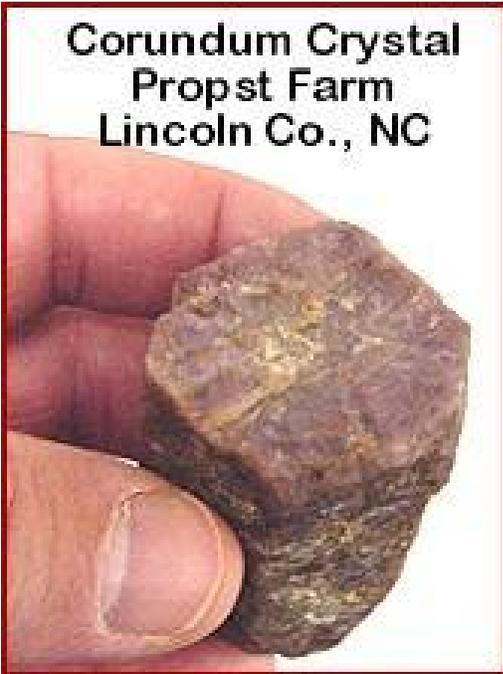
Address: Propst Farm - 3668 Startown Road, Maiden NC 28650

Directions: About 13 miles south of I-40 via US321 and Startown Road or about 26 miles north of I-85 via US321 and Startown Road (Startown road intersects 321 and the Propst Farm is approximately 3 miles south of NC highway US 321). - Dig is on residential land, pull in between 2 brick houses - We will try to have a sign on road where to turn in.

Exxon Service Station w/restrooms and refreshments back at the intersection of Startown Rd. and US 321.

Lodging: Rooms are available in nearby Lincolnton NC or Hickory NC.

Contact: Randy Davis - Gaston Gem,
 Mineral & Faceters Club
 704.915.5646 randybdavis62@yahoo.com



Corundum Propst Farm, Lincoln County, N.C.



Southeastern Gem & Mineral Shows

October 31 - November 1, 2015

Plant City, Florida
56th Annual Tampa Bay Mineral & Science Club Annual Show: Hot Rocks, Cool Gems, Fabulous Jewelry

Saturday, October 31: 10:00 AM to 5:00 PM
Sunday, November 1: 10:00 AM to 5:00 PM

Strawberry Festival Expo Hall, 2301 W. Oak Avenue, Plant City, FL 33563

Admission: Adults, \$5; Youth and students with ID, \$4; Children under 12 free (with parent)

Exhibits & displays featuring jewelry, fossils, minerals, cutting material, gemstones, decorator items.

Demonstrations including wire wrapping, cabochon cutting, gem trees.

Dealers featuring minerals, faceting rough, lapidary rough, supplies, fossils, jewelry, beads, beading supplies, decorator items.

Silent auction, door prizes.

For a discount coupon, please visit our website.

Website: www.tampabayrockclub.com

Jerri Heer, President jheerx6@aol.com



November 13 - 15, 2015

The 26th Magnolia State Gem, Mineral, Fossil and Jewelry Show
The Mississippi Gulf Coast Gem & Mineral Society

Friday November 13, 10:00 - 6:00
Saturday November 14, 10:00 - 6:00
Sunday November 15, 10:00 - 5:00

Jackson County Fairgrounds, 2902 Shortcut Rd., Pascagoula, MS

gems; minerals; fossils; jewelry; and much more. Two gold/silversmiths doing repairs, several demonstrators doing flintknapping; gold panning; faceting; cutting and polishing stones; beading; and chain making. Meals and snacks available. Several educational exhibits.

Admission is \$3.00 for adults, children 12 & under are free with adult.
3 day ticket available for \$5.00

Contact Bill La Rue, 228 229 8781, wildbill2736@gmail.com for information. The society website is www.mgcmgs.org

November 20 - 22, 2015

The Columbia, SC Gem & Mineral Society will hold its 47th Annual Gem, Mineral, & Jewelry Show

Fri. Nov. 20, 10:00 - 6:00;
Sat. Nov. 21, 10:00 - 6:00;
Sun. Nov. 22, 12:00 - 5:00

Jamil Temple
 206 Jamil Rd.
 Columbia, SC 29210

Jewelry, beads, loose stones, fossils, minerals, gold, silver, & tools for sale
 Geodes sold & cut
 Club member's rock collections on exhibit & lapidary demonstrations.
 Lots of fun for the whole family.
 South Carolina amethyst on display.

\$5.00 for adults, children sixteen & under are free with adult.
 All military & their dependents are free.
 803-736-9317 ashraider@mindspring.com
 Club website: www.cgams.org

November 28, 29 & 30, 2014

Mobile, AL
Mobile Rock and Gem Society Annual Gem, Jewelry, Fossil and Mineral Show

Abba Shrine, 7701 Hitt Road, Mobile, Alabama

Friday Nov. 28 – 2PM until 7PM
 Saturday Nov. 29 – 9AM until 6PM
 Sunday Nov. 30 – 10AM until 5PM
FREE PARKING

Admission: \$5 Door prize ticket w/each paid admission
 12 and under FREE with adult admission
 \$1 off coupon available at www.mobileorckandgem.com
 Show Chairperson: Jim Patterson (251) 510-8528
 E-MAIL- JIMANDDE@MOBIS.COM



For Sale:

Ron Davis is selling most of his Rock, Mineral and Fossil collection and a Facet Machine.

8 inch Facet Machine, made by: Lee Lapidaries of Cleveland, Ohio.

Included disc are:

1 – 1200 grit 8 inch Crystalite

1 - 260 grit 8 inch Crystalite

2 – 8 inch Acrylic laps

1 – 8 inch Masterlap

1 – 6 inch polishing lap All for \$350.00

Polished Orthoceras fossils on black limestone – a very large plate for \$100.00

Call Ron Davis for more information or if interested at: Home: 478-788-2616 or Cell: 478-737-9760

A great deal of information about the earth's crust has been obtained through the study of fossils or paleontology. Paleontology has three separate branches as may be predicted: paleobotany (plants), paleozoology (animals) and paleoanthropology (humans). Fossils are the ancient library of how life responds to light.

Mineralization is the most common form of fossil preservation, and this involves mineral replacement of living parts or filling of spaces. Carbonization occurs in oxygen depleted environments where the organisms give up oxygen and nitrogen to bacteria leaving carbon-rich deposits of coal and oil.

Fossil encrustation occurs when organisms are coated, leaving a negative impression, and distillation involves depletion of volatile elements, leaving a thin film of carbon showing the form of the organism.

From: <http://www.lakehavasugms.org/rt/RT-03-15.pdf>

Tidbits

What is a fossil?

Fossil literally means "dug up", and is the word for mineralized remains of living organisms from past geological eras.

For scientists, the greatest story ever told is preserved in the fossil record. Fossils help to identify the age of rocks widely separated from each other, because the succession of flora (plants) and fauna (animals) has been described and formalized.

Rocks vs. Minerals

Many people go hunting for rocks and minerals without knowing the difference between the two. The difference is simple: a mineral is a crystallization of a chemical compound; for example, silicon dioxide crystallizes to form quartz, the most abundant mineral on earth. A rock is a mixture of many different minerals. While minerals exhibit very definite characteristics, rocks do not and vary greatly because they consist of a variety of minerals. This can make identification of rocks more difficult. *From: A Field Guide to the Grand Canyon State*



Mid-Georgia Gem Clips
Official Bulletin of Mid-Georgia Gem
and Mineral Society
Macon, Georgia

The Club meets on the First Monday of each Month, at The Museum of Arts and Sciences, in Macon, Georgia.

Except: No meeting January, July, and August. The annual Christmas Party is the first Monday in December. September the first Tuesday of the Month

Purpose: To promote the earth sciences, the lapidary arts, and the collection, study and display of rocks, minerals, and fossils; to promote the public awareness of these efforts in educational and recreational activities.

Club Officers:

President / Web Master: Jim Souter,
 ph. 478-454-7273, jgsouter@windstream.net

Vice President: Phillip Hargrove, 478-862-5327
 Cell 478-550-8199 susanbphih@pstel.net

Secretary / Photographer, Richard Arnold,
 ph. 678-682-9860 rarnold216@charter.net

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 Butler Ga. 31006, ph. 478-862-5327,
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Editor / Programs: Jay Batcha,
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rocky1s@cox.net

Education Chairperson: Tuell Walters,
 ph. 478-922-7200
supernova1346@gmail.com

Stamp Program: Ron Davis, ph. 478-788-2616

Club year begins November 1st, a grace period of three months will be given before membership lapses.

Mid-Georgia Gem & Mineral
Society
Application for Membership

Name(s) _____

Address _____

City _____

State _____ Zip Code _____

Phone _____

Adult(18+) \$10.00 Junior \$2.50 New

Renewal _____

E-mail _____

Address _____

List your interests and reasons for joining _____

Make checks payable to:
 Mid-Georgia Gem & Mineral Society
 Mail to the Treasurer (listed on this page) or
 bring to a meeting.



Mid-Georgia Gem Clips

**Official Bulletin of Mid-
Georgia Gem and Mineral Society
Macon, Georgia**

**Member of Southeast Federation of
Mineralogical and Lapidary Societies
Member of American Federation of
Mineralogical Societies**



Mid-Georgia Gem Clips

Jay Batcha, Editor
4220 Cyndy Jo Circle
Macon, Ga. 31216

Save Commemorative Stamps