



October Meeting
At the Museum of Arts and Sciences
on Monday,
November 03, 2014 at 7:30pm.

Kim Cochran will be the speaker this month. He will try again, his car is back on the road! The subject will be about Geology and then a Quiz with the winner getting a door prize.



Officer Election Results

We voted on our new officers for 2015 at the October meeting. Please welcome our new Officers: President: Jim Souter, Vice-President: Phillip Hargrove, Secretary: Richard Arnold, and Treasurer: Susan Hargrove. Please thank them for their service!

President Message

I want to thank everybody that came out to the Perry fair to help this year. We have had a great year again. As of today, we do not have a

tally as to the number of grab bags sold but the kids love them. Jay's guitar picks are a great draw at the booth again. Kim Cochran came down Wednesday and brought the skull of a bison from the last ice age and a mastodon femur which were prominently displayed on the table. They looked great!!! He also had a page of fern fossils from Pennsylvania. Our thanks to Kim for taking time out of his busy schedule to come down and sit with us for the day.

Dues are due again folks!!! Get your dues to Susan if you haven't already done so.

We have a dig coming up to the Jones Pit dig. We will be searching for the Georgia Queen Picture Jasper and a few fossils. Last time, Jay found a sea urchin. Let's all remember the basic rules while we are out there,

1. If you dig a hole, fill it back up
2. Be aware of those around you when swinging a tool
3. Wear safety glasses before striking a rock or tool
4. Remember to use proper safety equipment at all times; this is gloves, safety glasses, boots, etc.
5. Have fun and enjoy yourselves.

Welcome to the new members we have and we hope to see you at the dig and the next meeting. Also, don't forget to bring a friend with you so the club will continue to grow. If anybody has any suggestions for programs, digs or even how to raise awareness of the club in the public eye, please feel free to contact me.

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.

Fair News

We sold 412 Grab bags at the fair this year about the same as last year. A big thank you to all that help at the fair and helped with getting all those grab bags ready for the fair!

Jay

October Meeting Minutes

The meeting was called to order at 7:37 PM by Jim Souter with 14 members/guests present.

Old Business

The treasurers' report was read and approved. Everyone is reminded that dues are due at this time.

New Business

Our club is required to sponsor a federation dig in March 2015. We are seeking suggestions for possible locations for this dig. We are also looking into the possibility of a club dig at Jones pit near Unadilla on November 1. This location provides some

nice Georgia Queen Picture Jasper and several types of fossils.

Nominations were presented for next year's officers, voted on and approved. Jim Souter remains as president, Phil Hargrove will remain as vice president, Richard Arnold will remain as secretary and Susan Hargrove retains her position as Treasurer.

This month's mineral was Sphalerite and members brought in specimens to discuss and share. Six new members had signed up with some applying on line and others as a result of the fair.

This month's speaker was our own Helen Forgay who won this year's lapidary scholarship. She gave a talk on her recent visit to Wild Acres near Little Switzerland, NC. She talked us through her week long class in Silversmithing in great detail. The talk included the projects that she created, some of the assembly methods that were used and the positive impact created by the location. She provided information from the school along with some of the tools were used. A question and answer session was provided at the end of her talk.

Next month's speaker will be Mr. Kim Cochran. The meeting was adjourned at 8:48 PM.

By: Richard Arnold



Corundum, Biotite – Zazafotsy Quarry, Madagascar



Corundum

The Mineral of the Month

Corundum is best known for its gem varieties, Ruby and Sapphire. Ruby and Sapphire are scientifically the same mineral but just different colors. Ruby is the red variety, and Sapphire is the variety that encompasses all other colors, although the most popular and valued color of Sapphire is blue. Sapphire is also only used to describe the gem variety; otherwise it is simply called Corundum.

Corundum is found as a primary mineral in igneous rocks such as syenite, nepheline syenite, and pegmatite's. Loose rubies and sapphires have weathered from basalt flows and are now found in the downslope sediments. Plus, corundum is also found in metamorphic rocks in locations where aluminous shale's or bauxites have been exposed to contact metamorphism. Schist, gneiss, and marble produced by regional metamorphism will sometimes contain corundum.

Corundum is a very hard, tough, and stable mineral. For all practical purposes, it is the hardest mineral after Diamond, making it the second hardest mineral (1/4 the hardness of diamond). It is also unaffected by acids and most environments. Translucent brown Corundum and Emery are the most common forms of Corundum. These are fairly common forms, and due to their great hardness and prevalence are the most favorable abrasives. The industrial term "emery" describing Corundum abrasives is derived from the variety Emery which is mined specifically for its use as an abrasive. Erosion may cause Emery to crumble and form sand, which may be called "black sands". Most abrasives use silicon carbide now (hardness 9.1/4) but if corundum is used it will be synthetic corundum.

Corundum is easily synthesized, and many

Corundum abrasives are synthetic. Synthetic gems are also easily created by adding traces of certain color producing elements to the Corundum solution, and letting the solution solidify into a boule, or synthetic, unprocessed "mineral" with a particular shape. This process is called the Verneuil process.

Natural Ruby and Sapphire gemstones may have their color artificially enhanced or deepened through heat treatment when used as gems. Some dark blue stones from certain localities may also be made a bright blue desirable color.

Corundum other uses:

Bearings (jewels) in watches - watch makers in Switzerland needed tiny bearings that were highly resistant to abrasion. They discovered that they could drill a hole into a tiny piece of corundum and use it for a smooth-running, long-life bearing. They use synthesized corundum still today in jewel watches.

Lasers - Lasers are named after the material used as a gain medium, such as "ruby laser" or "titanium sapphire laser". Tiny lasers are used in CD and DVD players. Lasers are used to cut metal, stone, and other tough materials. Lasers are used to remove tattoos, perform cosmetic surgery, cataract surgery and LASIK surgery for vision correction.

Windows - Pure corundum is colorless, transparent, durable, and scratch resistant. Large crystals of clear synthetic corundum are grown, sawn into thin sheets, and then used as the windows of grocery store scanners, watch crystals, aircraft windows, and protective covers for electronic devices.



Blue Corundum – Ilmeny Mountains, Middle Ural, Russia



Tumbled Georgia Queen Picture Jasper



DMC Program of the SFMS Field Trip Committee

**DMC Program of the SFMS
Field Trip Committee**

**There is no DMC dig in
November !**

Mid-Georgia Field Trip

November 1, 2014

9:30 am

Jones Pit

Trip: To the Jones Pit or Chandler Iron Mine in Pulaski County, halfway between Unadilla and Hawkinsville.

We will be digging on private property, be sure to fill in any holes and pickup your trash, so we can come back.

Meet at: First convenience store on the right after turning right onto highway 230 or exit #122 coming from I-75 south. Meet at 9:30am on Saturday November 1, 2014.

Fee: Free



Collect: Picture Jasper (looks like Biggs picture jasper from out west) nice stuff, brown agate, goethite / hematite some geodes and some iridescent. Fossil shell cast with druzy quartz and calcite. Also sea urchins, not often.

Bring: Hammers, chisels, hard rock equipment, scratching tools, pry bars, buckets, paper to wrap specimens, hat, sunscreen, food and drinks, safety glasses, gloves.

Directions: Head south on I-75 from Macon, Ga. to exit #122, highway 230 (the Unadilla exit). Turn left on highway 230 (towards Unadilla) go about ¼ mile and the Chevron convenience store we are meeting at is on the right.

Questions: Call Jay home# 478-784-1965 cell# 478-957-5002 or Jim Souter # 478-454-7273



Georgia Queen Picture Jasper



Southeastern Gem & Mineral Shows

November 1 & 2, 2014

Plant City, Florida

55th Annual Tampa Bay Mineral & Science Club Annual Show: Hot Rocks, Cool Gems, Fabulous Jewelry

Saturday, Nov. 1: 10:00 AM to 5:00 PM

Sunday, Nov. 2: 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.

Website: www.tampabayrockclub.com



NOVEMBER 21- 23, 2014

THE COLUMBIA, SC GEM & MINERAL SOCIETY
 WILL HOLD ITS
 47TH ANNUAL GEM, MINERAL, & JEWELRY SHOW
 2014
 FRIDAY NOVEMBER 21, 10:00 - 6:00
 SATURDAY NOVEMBER 22, 10:00 - 6:00
 SUNDAY NOVEMBER 23, 12:00 - 5:00

JAMIL TEMPLE, 206 JAMIL RD. EXIT 106A OFF I -
 26 ,COLUMBIA, SOUTH CAROLINA 29210

24 RETAIL VENDORS
 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.

ADMISSION IS \$5.00 FOR ADULTS, CHILDREN
 SIXTEEN & UNDER ARE FREE WITH ADULT.
 ALL MILITARY & THEIR DEPENDENTS ARE FREE.
 CONTACT INFORMATION IS:
 SUE SHRADER...PUBLICITY...803-736-9317
 ASHRADER[]MINDSPRING.COM
 SHARON STERRETT...DEALERS...803- 356-1472
 SSTERRETT[]SC.RR.COM

THE SOCIETY WEBSITE IS 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

TIDBITS

Why Isn't Meteorology a Study of Meteorites???

Well, it's only a little complicated so bear with me. The word 'meteor' comes from the Greek and means 'of the air'. Meteorites are given that name, then, because they are not rocks 'of the earth', but rocks that have come 'out of the air'. Once you realize that 'meteor' means 'of the air', then 'meteorology' is obviously a study of the air (weather), and not a study of meteorites.

To be precise, 'meteor' is used to describe the debris as it is passing through the earth's atmosphere; 'meteorite' is the term used once the material has fallen to the surface; and 'meteoroid' the term given prior to its entering the atmosphere.

Most of the meteors (shooting stars) that we see at night are cometary debris. These are tiny sand or grit sized pieces that completely burn up in the atmosphere. The meteorites are all thought to be asteroidal in origin. So there is a fundamental difference between what we see as a shooting star and meteorites – they come from different sources.

From: The Agateer newsletter 01-2008



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 / Webmaster: Jim Souter, ph. 478-454-7273, jgsouter@windstream.net

Vice President: Phil Hargrove, 86 Clear Branch Rd, Butler Ga. 31006, ph. 478-862-5327
susanbphilh@pstel.net

Secretary / Photographer, Richard Arnold,
 ph. 678-682-9860

Treasurer: Susan Hargrove, 86 Clear Branch Rd, Butler Ga. 31006, ph. 478-862-5327,
susanbphilh@pstel.net

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Tpangan@aol.com
 also 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

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Save Commemorative Stamps