



**October Meeting
 At the Museum of Arts and
 Sciences on Monday,
 OCT. 01, 2012 at 7:30pm.**

The speaker will be Steve Binkley. He will be speaking on Astro-photography. Steve is Susan's brother and has a passion for the stars and planets. Come and learn about photographing the stars and I don't mean movie stars!

Georgia National Fair information

The fair this year will be occurring from October 4 – 14. We will be doing demonstration during the fair again as we did last year. We also will have a table to give out information about the club. Plus as with the past years will have some display cabinets to display rocks, minerals, fossils, and lapidary. We will need volunteers to Demo and to answer and give information about the club. This year we will be selling grab bags as a fund raiser for the club.

We need to get setup/ready for the fair.

On Saturday, September 15 at 10:00am we will be setting up the display cases at the fair grounds. We need help with setup and also some nice stuff to display in the cases. For more information or if you have some thing for the cases call Jim Souter 451-5431, Susan Hargrove 837-5327, or Jay Batcha 784-1965

The Grab Bag Party

We had the grab bag stuffing party, **thank you Jim Souter** for showing up. The only one that did!!!! Shame on everyone else! I don't have time to call everyone and try to talk you into coming to help but you can call and ask if you can help. Please, please get involve I know that once you do you will enjoy it. We did have some people donate material Jack Jones, Richard Arnold, Susan and Phillip Hargrove, Tina Perkins and Jim Souter. Also a special thanks to Tina Perkins for all the grab bags that you sew for us. Jim and I filled 74 grab bags to sell at the Fair.

By: Jay Batcha

Officer Election Time is here Again!

It is time to start thinking who will be next years Officers (President, Vice-President, Secretary, and Treasurer). The nominating committee members are Jack Jones, Susan Hargrove, and Rene' Smith. Please contact one of them if you are interested in one of the positions or if you have any questions.



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.



September 4, 2012 Minutes

Vice President Jim Souter called the meeting to order. Two guests were present: Kim Cochran's mother joined him on his drive down and Nancy Barnes from Forsyth visited. The Treasurer's report was presented.

Old business included reminders of Sept. 8th at Jay Batcha's to prepare grab bags; Sept 15th setup at the Fairgrounds in Perry for the upcoming Georgia National Fair. A request was made for docents to be available at the Club's display during the Fair, Oct. 4 – 14th. The Club was reminded that we would sponsor the November DMC dig. The dig will be November 3rd at the Vulcan mine, Cartersville, Ga. Volunteers will be needed to assist with check-in and other duties.

New business: VP Souter appointed a committee of three to serve as the nominating committee for the officer slate for the new Club year beginning Nov. 1st. Committee comprised of Jack Jones, Betty Sue Smith and Susan Hargrove. Committee will report at the October meeting; vote will be held at that meeting for officers.

Announcement: upcoming show held by Cobb County Gem & Mineral November 16-18.

Speaker was Kim Cochran. Kim spoke on deserts of the world and gave a variety of interesting facts. Deserts exist in a variety of environments including Antarctica, only 10-20% of deserts have dunes, discussed types of life existing in deserts and the types of dunes found. Dune formation is determined by type of wind(s) present and any barriers encountered by the moving sand. Kim always does a great presentation and we look forward to his next program.

Meeting adjourned.

Minutes by Susan Hargrove.

In Memory:

Member and long time friend of the club, Ray "Crowfeather" Lybolt passed on September 1st. Ray was a gifted craftsman, excelling in silver smithing, metalwork, arrow point and tool making. Ray used a variety of flints but was fond of using obsidian (which he collected) in his chipping. He produced many silver with turquoise pieces and also used other materials in those pieces such as coral. Ray traveled and worked all over the United States, Canada and Central America. As he traveled he collected Native American artifacts. He was proud of his artifact collection and his Mohawk heritage. Ray was 94 when he passed. His mind was sharp and his wit with him until his life on this earth ended.

S Hargrove

Mineral of the Month

THE GEMSTONE TIGER'S EYE

Tiger's Eye, a popular yet inexpensive gemstone, is a pseudomorph of compact Quartz after the fibrous mineral Crocidolite. It is formed when the Quartz takes over and dissolves the Crocidolite, leaving the Quartz in a finely fibrous and chatoyant form. When polished, it's silky luster creates a beautiful chatoyant effect of moving layers of brown and yellow lines and waves.

All About: Tiger's Eye forms when Quartz forms over existing bluish-gray Crocidolite, and eventually entirely replaces it. Crocidolite is a type of asbestos mineral, which means its composition is of fine, dense fibers. These fibers form in a parallel yet wavy orientation, and this causes the intriguing chatoyant effect exhibited in Tiger's Eye. During the replacement process, the iron



within the Crocidolite dissolves and stains the Quartz, thereby providing the golden yellow to brown color of the Tiger's Eye.

The original Crocidolite is a bluish-gray color, and sometimes the pseudomorphism to Quartz is incomplete. When this happens, the result is a stone with a bluish-gray color (and often with streaks or overtones of brown or yellow), but still with chatoyant effect. This type of material is known as as Hawk's Eye.

Tiger's Eye may form together with brownish-red or metallic-gray Hematite, or with yellow Limonite, where these minerals forms stripes, streaks, or patterns within the Tiger's Eye. Such material is often called Tiger's Eye Matrix.

When cutting and polishing Tiger's Eye gemstones, skillful orientation to the fibrous structure must be applied to achieve the best chatoyancy. Ideally the cut should be perfectly parallel to the length of the fibers to achieve fullest chatoyancy. Cat's eye effect in Tiger's Eye do exist, but are uncommon in perfect form due to the wavy nature of the fibers.



Tiger's Eye from: Griqualand West, South Africa

Uses: Tiger's Eye is a very inexpensive gemstone, and is used in beads for bracelets and necklaces, as well as in pendants. It is also used for costume jewelry and occasionally used for ornate carvings or floral pins. Gemstones cuts of Tiger's Eye are encountered but are not common.

Varieties:

- **Arizona Tiger's Eye** - Quartz or Opal pseudomorph after fibro

us Serpentine, found near Globe in Arizona.

- **Blue Tiger's Eye** - Synonym of Hawk's Eye
- **Hawk's Eye** - Bluish-gray variant of Tiger's Eye, lacking the yellow or brown color. Hawk's Eye is formed from an incomplete pseudomorphism of Quartz after Crocidolite.
- **Marra Mamba Tiger's Eye** - Strongly chatoyant Tiger's Eye from the Hamersley Range in Western Australia, with a beautiful multicolored effect of reddish brown, steel-blue, yellow, and yellowish-green.
- **Tiger Iron** - Synonym of Tiger's Eye Matrix
- **Tiger's Eye Matrix** - Tiger's Eye admixed with iron oxide lines or patterns. These include dark gray or red Hematite and yellow Limonite.

Tiger's Eye Sources: The chief source of Tiger's Eye is South Africa, from the Northern Cape Province. Other, less important sources include Namibia, Australia, India, and Thailand. Although uncommon worldwide, the abundance of the deposits in South Africa are extensive enough to make Tiger's Eye very affordable.

By:

http://www.minerals.net/gemstone/tiger's_eye_gemstone.aspx



Tiger's Eye from: South Africa



Field trips coming up, lets go digging!!!

Graves Mountain "Rock Swap and Dig

8 am to 6 pm, Friday, October 5, 2012
8 am to 6 pm, Saturday, October 6, 2012
8 am to 6 pm, Sunday, October 7, 2012

"You are invited to field collect minerals at Georgia's premiere mineral location!"

The caretaker in charge of Graves Mountain, Clarence Norman Jr., has announced plans to hold two three day digs and rock swaps on the Mountain during 2012. He will have the mountain open to collecting from 8 am to 6 pm each day. All participants must stop at the welcome table in the Hospitality tent to sign a liability release and make a small contribution to defray the cost of opening the mountain and providing port-o-lets. There will be several golf cart type, four wheeled vehicles available to transport those participants who have trouble walking long distances. The dig will cease and everyone is expected to be off the mountain by around 6 pm each day. Participants will be allowed

to park in a designated area on the mountain.

Rock Swap and Hot Food/Drinks: Junior will set aside an area in the upper parking lot for tables to be setup for daily rock swaps. Anyone who would like to setup a table(s), please contact Junior at the phone numbers listed below. Hot food cooked on the grill, cold drinks and chips will be available for purchase on the mountain during all three days of these events.

Contact Information:

Clarence Norman Jr. (Junior) - 706.359.3862
(his business) or 706.359.2381 (his home)

THESE DIGS ARE OPEN TO ALL SFMS CLUBS and the GENERAL PUBLIC!
Mark your calendar and tell all your members about these two great events!

DIRECTIONS: From Atlanta's I-285, take I-20 east to the exit for Washington, GA SR 78 (SR 10, SR 17) and turn left. Travel north to Washington, turn right onto SR 378 and drive 11 miles to the Graves Mountain area. The entrance to Graves Mountain is on your right about 8/10 mile past the Lincoln county line sign. The entrance is a paved road that goes through a gate and up a hill. Please park along the access road and then proceed to the "Welcome Tent" at the end of the pavement to obtain a liability release form and to make a donation for the portable bathrooms, etc.

DIRECTIONS: From Macon, Ga. Starting at I-75 and I-16, take I-16 east to Spring St. exit (less than 1 mile). Turn left on to Spring St. (Highway 129) towards Gray Ga., Stay on 129 until you get to Eatonton Ga. (around 40



miles). Once you get to the square turn right onto highway 16, turn left on to highway 44 (around 1 mile). Stay on highway 44 until you get to Washington Ga. (around 54 miles) turn right onto highway 78 business and go through town (highway 47 will merge in with 78 from the right, Don't turn here)(around 2 miles). Take highways 47 / 378 towards Lincolnton Ga. (about 12 miles) as soon cross into Lincoln County turn left on to Norman Road. Park here near corner. Travel time is 2 hrs 30 mins.



Rutile, Graves Mountain, Ga.

**DMC Program of the SFMS Field Trip
Committee**
**An Official Field Trip of The KYANA
Geological Society, Louisville, KY(HOST)**
**An Official Field Trip of the Mid-Ga
Gem and Mineral Society**

Saturday, October 13, 2012
Taylorsville, Spencer County,
Kentucky

Lower Kentucky River
"Ordovician rocks and
fossils"

Meeting time 9:00 AM EST.
Our plans, weather permitting, will be to
take the participants on Saturday the

13th to a series of road cuts in the area
of Taylorsville, Spencer County,
Kentucky. We will be collecting Upper
Ordovician fossils. The stratigraphic
section ranges from the Eden
Formation up through the Liberty or
Bull Fork Formation.

We will be collecting Ordovician Fossils
from the Upper Ordovician formations,
the Eden [Kope], the Calloway Creek,
the Mc Millian, and the Waynesville.
Most of the fossils will be loose, very
little digging is required. There are
about 100 different fossils in these
units. Most participants can expect to
find with some diligence 25 different
fossils. There are many varieties of
brachiopods, bryozoans, pelecypods,
gastropods, along with corals,
cephalopods, rare finds include
trilobites, edrioasteroids, and a very
rare cycloostoid was found here a few
years ago. The last time KYANA hosted
the SFMS to this area, the participants
went home dragging their tail pipes.
KYANA members will be along to help
you find which fossils you wish to
collect. And we will have some heavy
tools available.

Taylorsville State Park will be our
meeting site for Saturday morning
October 13, 2012. Highway 155/55 runs
north south through the town of
Taylorsville, turn east on to highway 44,
take highway 44 to highway 248, take
highway 248 east to the entrance of
Taylorsville State Park, turn south on
Park Road, pass the Park Office and to
the covered picnic shelters, park here.
If you go too far you will end up at the
Possum Ridge Boat Ramp.

I would like to leave the meeting area
around 9:00 AM EST.



At a time yet to be determined, we will break from collecting and join KYANA Geological Society at our Annual Picnic at one of the covered shelters where we met in the morning. You are not required to provide anything, it is our treat!

For the afternoon we will continue to collect the Taylorsville area.

What to bring: Standard rock hound tools [hammer, chisels, goggles, wrapping materials, buckets] we will be in the sun, sunscreen, sun hat, sun glasses. We will be able to drive up to the outcrops.

You can access our website <http://kyanageo.org/> and see some of these fossils and more.

Please Note: All correspondence concerning this trip should go through Charles Oldham, President and Field Trip Coordinator, charlesoldham@gmail.com, 502-241-8755, 7405 West Hyw 22, Crestwood, KY 40014.

DO NOT USE KYANA's web address kyanageo@gmail.com to communicate with KYANA, it appears to be somehow corrupted.

***NOTE: THIS IS OUR CLUB
SPONSORED DMC DIG BELOW***

An Official Field Trip of The Mid-Ga Gem and Mineral Society Macon, GA(HOST)

An Official Field Trip of The Mid-Ga Gem and Mineral Society

**9:00 AM to 12:00 Noon,
Saturday, November 03, 2012
Vulcan Materials Company,
Bartow Quarry
Cartersville, GA
Free Area**

Where: Vulcan Bartow Quarry, 5840 Highway 20 SE, Cartersville, 30121
The Quarry began operations in 1995 at this location. They have 797 acres and their pit is approximately 1,200 feet wide and 250 feet deep at this time.

FREE AREA: This field trip is free for all who participate

Directions: Interstate 75 North to exit 290. Highway 20. At the exit you make a right and go 1 and 1/2 miles to the quarry on the right. This is just past the McDonalds. Turn right into the quarry and continue to a small building where we will meet before going to the pit. If you are coming from the North, you would still exit at 290 but turn left, go east and continue to the quarry. When we arrive we will meet a Vulcan employee who will be our guide for this trip.

Collecting: the rock found here is a porphoblastic granite gneiss and is part of



the Corbin Gneiss Complex. These rocks are some of the oldest in Georgia dating back some 1.2 billion years, making it much older than the granites found at their other locations. This quarry is known for the blue quartz found within the granite. While most of the blue quartz is small, you can normally find some large enough to polish into a very nice cabochon. Some may be found with pyrite inclusions as well as other minerals within the granite.

WHAT TO BRING: Clothes that would be appropriate for this time of year in Georgia. That could be almost anything and I would suggest layers that could be removed and something in the event of a shower. A hard hat, safety glasses, and steel toe shoes/boots, or at least a good pair of shoes. We should be finished early enough to go to the McDonalds for lunch but something to drink is always good to bring along.

They are blasting rock every week and, as a working quarry, there are spoil piles all around. No one will be allowed near any of the high walls but with the abundance of material we normally just have to bend over and pick things up. All you really need is a bucket to take your samples home. If you want to chip off a piece of a larger boulder be sure you have all your safety equipment including safety glasses, gloves, hard hat and a chisel and crack hammer. At the very least- Bring your camera.

Field Trip Contact: Jay Batcha.
rocky1s@cox.net
Phone: 478-784-1965
Cell: 478-957-5002

Southeastern Gem & Mineral Shows

Oct. 06-07, 2012

22nd Annual Gem, Mineral, & Jewelry Show at Lexington, KY near airport
Sponsored by Rockhounds of Central Kentucky (ROCK)
Sat: 10 AM - 6 PM;
Sun: 12 PM - 5 PM

Kentucky National Guard Armory
4301 Airport Road, Lexington, KY 40510

Show includes minerals, jewelry, equipment dealers, club sales, exhibits, KY Agate, fluorescent displays, hourly prizes, and Grand Prize drawing.
Admission: \$1 adults, \$0.50 children, \$3 max family; Scouts in uniform free.
Show contact: Allen Ferrell, 859-277-2469 or kyrock2010kentucky@yahoo.com.
Club Website: www.lexingtonrockclub.com

October 12, 13, 14, 2013

Huntsville, Alabama
Huntsville Gem and Mineral Society
Fri. 10:00 AM - 6:00 PM,
Sat. 10:00 AM - 6:00 PM,
Sun. Noon - 5:00 PM
Von Braun Center, 700 Monroe Street, Huntsville, Al. 35801
Hourly Door Prizes, 30+ dealers
Show Contact: Tony Smith, Show Chair, 256-852-3210
e-mail: tsmith@erc-incorporated.com



Tidbits



WHY IS THERE SILVERWARE?

The REAL reason for Silverware use in the past is for HEALTH and Sanitation reasons. Just like the 49rs put Silver dollars in their water barrels, and Europeans for hundreds of years used silver water jars (if they could afford it) or put Silverware or silver coins in their water if they had them, and of course, used “Silverware” in the first place, is because it was noticed that molds and bacteria’s didn’t build upon Silverware like it would on other materials. A natural property of ionic silver is to KILL bacteria. Viruses hate the presence of Silver as well. It is a little known fact that if you take a Petri dish and culture just about any nasty things you can think of like mold, algae, bacteria, or virus then add ionic silver, the contents of your Petri dish will DIE. The doctor who wrote the book “The Body Electric” had great success speeding up the healing of burns and wounds, and healing wounds that “wouldn’t heal” by applying silver mesh and a small battery current (knocking off silver ions onto the affected area). In my household, we make our own Silver (in its colloidal form) and use it to knock out cold and flu’s before they take hold. US farmers use Ionic Silver generators in large scale to treat the feed water and keep their livestock much healthier, and ward off infections and disease. For more information on the use of colloidal silver as

related to health, there is a website called Silver Gen that has a lot of information:

http://www.silvergen.com/colloidal_silver_history.htm. Here is a quote from that site:

“Colloidal silver has been used for healing for centuries. The Greeks and Romans kept liquids in silver jars. During the plagues in Europe, many royal families escaped disease because they ate off silver plates and used silver utensils. It was used by the American pioneers to keep water and milk from spoiling or becoming contaminated.” It is used by NASA to purify water in the space shuttle. Russia also uses it in their space shuttle. It is used by some airlines to purify water on flights. Thin silver foil is still used in India and China to wrap portions of food in. Silver is used in most of the burn centers in the U.S. and has been used to prevent blindness in newborn infant’s eyes for many years.

*Source: Quarry Quips Wichita Gem & Mineral Society, September 2010, via *Editor’s insert - Thanks to: Glenn Thompson & Davis K (Rhodium) Products Inc., via BEMS Tumbler 6/10, via West Seattle Petroglyphs, 5/10; via Boulder Buster, 5/10*

**To Keep Silver from Tarnishing
Tarnish is caused by sulfur gases in the air.
Chalk is a natural absorber of sulfur. So,
place sticks of blackboard chalk in your
cases, jewelry boxes, jewelry drawer, or just
around your silver jewelry.**

(from <<http://www.rocks4u.com>, via Quarry Quips, 6/09).



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

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

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: Phil Hargrove, ph. 478-862-5327, susanbphilh@pstel.net

Vice President: Jim Souter, ph. 478-454-7273, jgsouter@windstream.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

Editor / Programs / Web: Jay Batcha, 4220 Cyndy Jo Circle, Macon, Ga. 31216, ph. 478-784-1965, rocky1s@cox.net

Education Chairperson: Thomas Thurman, ph. 478-329-1755, cell 478-293-7302 Tpangangan@aol.com

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

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