

Presidents Message:

Hello To All,

I try to keep the club informed about upcoming events and other projects the club is involved with in my monthly articles. I am sitting here thinking about getting ready for the Uncle Billy's Day event and it came to mind I have so many requests for the club to take part in I'm not sure we have enough volunteers to do them all justice. We have on going projects to fill mineral displays for the Nature Zone, Boxley Quarry at Mt. Athos, a fossil display to finish for Smith Mountain Lake visitor center, and rocks and minerals for The Claytor Nature Center in Bedford Co. I just received a request to participate in the Earth Day celebration at Lynchburg College on April 22nd. The New Covenant School has asked if someone will make a presentation about rocks and minerals to their seventh grade class as they are studying geology. Then I got another note to contact the science specialist at T.C. Miller School saying they are very interested in having their own rock and mineral display at the school. Again I got another E-mail asking if our club would be interested in participating in the Mountain Day's festival in Buena Vista, VA. The weekend before the Apple Harvest Festival in Amherst, VA.

Before I can digest all this I got an E-mail asking if someone passing through town could have a day at a Quarry site for collecting in the middle of the week? I

don't think so. We have a number of volunteers that show up for almost all of the clubs special activities and I really appreciate every thing that gets done. I said that to say this, do you think we need some other people to step up and volunteer to take on some of this workload? The Executive Committee does a great job but we are only so many. With a club that has a membership of over 200 rock hounds you would think there would be plenty of help. That's what I am asking for now, more volunteers. If you are not sure what to do or how to do it don't let that discourage you, we can give plenty of help and or instructions to take on these projects. See me or one of the other officers at the meeting and let them know you are willing to throw your hat in the ring for the club. On that note we are having a club workshop April the 11th at Dave Callahan's house to prepare items for Uncle Billy's Day festival. I am sure we will need to have another workshop to finish up all the details for that festival in early May. We will have more info on this at the April meeting. I hope to see you all there on the 15th. Until then.

Keep Looking Down
John Haskins



From the First VP:

No Article Submitted



Happy Easter!

2009 ELECTED OFFICERS**John Haskins - PRESIDENT**

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JoAnn Mason &

Tom Powers

COMMITTEE**CHAIR PERSONS:****Field Trips-** David Callahan**Hospitality-** Anne Torning**News Articles-** Natalie Darling**Silent Auction-** Warren Darling**Special Events-** Dee Tinsley**Swap for Rocks-** Warren Darling**Website-** Alan Rice**Workshops-** Dave Woolley**FRA Adult Liaison-** David Murphy**Membership-** Ralph Torning

March Meeting Minutes

Meeting: Wednesday, March 18th, 2009**Attendance:** 38 members and 17 guests**Hospitality:** Steve Boylan thanked everyone who generously supplied food and drink for our members and guests.**On Time Drawing:** specimens were won by Joseph Daniel and Nathan Reading; 2 visiting Boy scouts. Congratulations to the winners.**Old Business:** John Haskins discussed possible dates for spring workshops at Dave Callahan's home to prepare items for sale at our summer and fall venues. We are still searching for volunteers and specimens to help with the displays in the area that the club has committed to.**First Vice President:** Steve Boylan announced that the program for this meeting would be mineral identification. In April, we will have Dave Callahan speaking on Quarry and collecting safety and field trip hints. Any other program ideas are encouraged, please contact Steve Boylan.**Second Vice President:** Dave Callahan gave the upcoming field trip review: 3/21 Martin Marietta East Alamance Quarry in NC.;4/21-4/26 Agate hunt in Eastern KY; 4/18 Barger Quarry in Lexington, VA; 4/29-4/30 Franklin NJ for fluorescent mineral collecting; 5/2 Glendon NC; 5/16 or 5/23 (possible dates) quarry in Danville, KY.
Treasures Report: Franklin Midkiff reported a balance of \$2277.60**Program:** Mineral identification presented by club members. Thanks to the Cub Scout Group who attended our meeting to learn about mineral identification.**New Business:** Errett Callahan, brother of club member Dave Callahan, will be hosting flint knapping & primitive technology workshops at his home in Lynchburg this spring. Dave Callahan has more information if you are interested.

We were contacted by Lynchburg College about having a display at Earth Day. Discussion was tabled until the exec. Meeting.

Siglinde Allbeck's daughter is selling plant hooks to benefit Relay For Life. If interested, see Siglinde.

**Minutes submitted by
Dorothy Rivera, Secretary**

The purpose of the Gem & Mineral Society of Lynchburg, VA, INC. is to promote education in The Earth Sciences including: Mineralogy, Geology, Gemology, Paleontology, and Crystallography

*The Gem and Mineral Society of Lynchburg VA, Inc.
Meets on the third Wednesday of each month,
From 7:00pm- 9:00pm
In the auditorium of the Parks and Recreation Building
301 Grove St. Lynchburg, VA 24501
Public is invited, Please join us!*

Programs

The March program featured our own Gem and Mineral Society of Lynchburg Members showing different methods of Mineral Identification. We learned about cleavage, color streak, hardness testing, fluorescence, and crystal structure. Mineral samples were also available for folks to take home.

We also had some special guests, a cub scout troop from Concord, VA who attended for this special program. Thanks to all who participated and made this a huge success.



April Program: Field Trip Hints & Safety in the Mines and Quarries.

Dave Callahan will present the program, which will inform us of new and existing regulations and stipulations upon quarry collecting. Many sites have been closed due to folks not adhering to the safety rules, and we urge all of our members to attend this educational program to insure that we will practice our collecting with the utmost safety- for our own good and the good of those around us.

Program Preview **Personal Safety Equipment Checklist**



Hard Hat in good condition, that fits well, steel toe shoes or strong boots, (not tennis shoes,) hammers, chisels, safety glasses gloves, buckets, bags, and wrapping material for delicate specimens. Long pants and long sleeve shirts are recommended. Always take along plenty of water and some food. Always be on time for safety briefings when visiting quarries. This is a common courtesy that should be observed when we are invited guests.

This is a brief list of items you should have available for personal safety on field trips. Not all of this is required on all trips, but if you do not have the necessary equipment you may not be allowed to enter some collecting sites. More details at the April club meeting.

Field Trip Report

PAST COMBINED FIELD TRIPS



Field Trip Report submitted by
Dave Callahan,
field trip chairman, and John
Haskins, GMSL President

Combined Mineral collecting field trip The Gem & Mineral Society of Lynchburg, VA & The Roanoke Valley Mineral & Gem Society Martin Marietta East Alamance Quarry, Haw River, NC. March the 21st 8:00 Saturday

We were greeted by Freddie Blanchard the Quarry Foreman. After the quarry safety instructions and signing the release forms we were all eager to see what we would find.

This Quarry was a new site for both clubs and the weather was perfect for collecting from a large variety of minerals in and around the Granite boulders. We had a good turn out of some 45 members from both clubs. Several members spent the night in a local motel to be rested for the hunt the next morning. It seemed to pay off as we collected some 13 different minerals not to mention several Zeolites yet to be identified. Those that I am aware of are Quartz, Feldspar, Epidote, Pyrite, Chalcopyrite, Garnet, Titanite

(aka /Sphene), Stellerite, Gismondine, Chlorite, Biotite & Muscovite Mica, Hornblende, & Apophyllite. As I stated there are still several Zeolites that will have to be identified by Lance Kern at JMU with the help of the X-Ray Defractor.
Continued on next page



Freddie Blanchard & John Hatcher



▲ Zeolites



Nona Haskins & John Hatcher ▼



Field Trip Report



Alamance Quarry... continued from page 4

If you have any specimens from this location not on this list please let me know. It's good to have a complete listing of all minerals that have been collected at a certain site. I am happy to report that everyone practiced safe collecting habits and stayed away from the high walls and burmed off areas. I was proud of the way the safety rules were followed and Freddie says we will be able to continue to collect there in the future as well as another quarry site down the road. It's still true, if you behave yourself when you have been an invited guest you will be asked back again. But don't let your guard down after one good safety review; this is something that has to be maintained all the time.

Judging by the smiling faces I think most everyone had a successful collecting day, and that's what it's all about. Everyone checked out of the Quarry by 1:00 as requested and headed home to inspect their spoils more closely. It would be a good idea to look at your specimens with a loupe and inspect for some hidden Zeolites. There seems to be some on about every specimen I picked up. Who knows you may find a new mineral. I am just sorry that Dave Callahan couldn't make this trip as he had the flu, and I was stuck with writing the report. Ha Ha. I can't wait to see where we will be traveling next month.

***Until Then Happy Hunting,
John Haskins***

American Rutile Quarry
February 28, 2009
Nelson County, Virginia

What a great trip! There were 67 that signed up but due to a dismal rainy forecast for this last Saturday in February, we only had 40 that decided to attend. As it turned out, the rain held off until 2PM when we were ready to leave anyway. The cool weather made for some really very comfortable collecting

We really found some beautiful solid material to make bookends and spheres for the Lynchburg Club's upcoming events at the June 6th Uncle Billy's Day in Altavista and the October 17th Apple Festival in Amherst. . The kudzu was still dormant, so with a little digging in the overburden, good material could be unearthed. There were also a lot of really nice specimens found of Rutile in a matrix of Blue Quartz and White Feldspar. This is beautiful when polished and the contrast will make stunning cabochons, spheres or bookends.

Thanks to everyone that helped us locate and load some very large pieces for our projects. We should have adequate material from which to choose and plenty remaining for slabs and other projects. We look forward to a return visit next spring, when the weather is cool and before things become overgrown.



Upcoming Field Trips

For further information on field trips, contact David Callahan,
540-297-1853
Email dbc11@aol.com

**Sign-up required for all field trips. Call, email, or see me at the club meeting.
Do NOT just show up at the quarry!**

OFFICIAL COMBINED MINERAL COLLECTING FIELD TRIP

The Gem and Mineral Society of Lynchburg, VA. Inc.
The Roanoke Valley Mineral and Gem Society Inc.

C.W. BARGER & SON QUARRY, LEXINGTON, VIRGINIA
SATURDAY, APRIL 18, 2009 - 9:00 AM UNTIL 1:00 PM

ASSEMBLY TIME: Drive to the quarry on your own. From Lynchburg it is about 65 miles, so allow at least 1.5 hours driving time. From Roanoke it's about 55 miles, so allow about 1 hour driving time. Plan to arrive between 8:30 and 8:45 for Hazard Training and a Safety Meeting.

QUARRY LOCATION: The quarry is located on US Route 60 in Lexington, VA. From Exit 188 on I-81 drive west on US Route 60 toward the town of Lexington. You will see the quarry on the left just prior to the traffic light on US Route 11. There is a fast food there on the left. If you miss the quarry entrance, make a U-turn and the quarry will be on the right just past the fast food. Assemble at the locked gate near the scale house. Do not block the gate or the private driveway. Do not enter the quarry until we all have assembled and received the safety briefing and signed the release.

AGE LIMIT:

EQUIPMENT: Standard quarry gear is required. This includes hardhat, safety glasses and steel-toed boots. Be sure to wear long pants, bring gloves and sunscreen. Bring your collecting gear, bags or buckets and paper to wrap those fine calcite and fluorite crystals. Bring snacks and plenty of water to drink. We will NOT be able to drive into the quarry, so a wagon or cart might be useful.

COLLECTING: Calcite, massive and crystals, purple Fluorite in small crystals and Pyrite, massive and a very unusual crystal form.

SPECIAL CONCERNS: Stay off the high walls, away from the edges, protective berms and identified hazardous places. **If you violate these rules, you will be asked to leave the quarry at once and possibly will be banned from future field trips.** Quarries are hazardous places and your safety is our major concern.

CONTACT: David Callahan, Field Trip Chairman, Home Phone 540-297-1853, Cell 540-874-5201 and email dbc11@aol.com

This is a "Go On Your Own Field Trip." Several members will be attending, so if you would like additional information, please contact me.

19th Annual Mountain Mushroom Festival, Irvine, KY Go to the website for information:

<http://www.wstillcountyky.net>

April 21, 22, 23- Agate hunt (\$10.00 fee/day/person and must send in reservation)

April 24, 25, 26- 46th annual Bluegrass Gem and Mineral Club Show

April 25 & 26- Morel Mushroom Festival

LOTS OF EVENTS....VISIT THE WEB SITE

Additional field trip information on page 11

Schedule of Events...



SHOWS & TRIPS

April 2009

April 17th-19th- Treasures of the Earth Gem, Mineral, Fossil, and Beads Show, Charlottesville, VA.

www.toteshows.com for details.

April 18th- GMSL and RGMS field trip to Barger Quarry. Details Page 6.

April 17th-23rd- First spring session of Wildacres.

www.AMFED.org.EFMLS for details or to download an application.

April 21st – 26th- Hobby related and other events in the Irvine, KY area. See page 6 ,

<http://www.wstillcountyky.net> or Dave Callahan for more information.

April 25th – 26th- Fluorescent mineral collecting & show in Franklin, NJ. See page 11 or

<http://www.jimcooper.biz/uvworld2/home.html>

May 22nd-24th- Treasures of the Earth Gem, Mineral, Fossil and Beads show at the Salem Civic Center.

www.toteshows.com for details.

May 29th-31st- Treasures of the Earth Gem, Mineral, Fossil and Beads show at the National Guard Armory, 315 Commonwealth Blvd, Martinsville, VA

www.toteshows.com for details.

| Sun | Mon | Tues | Wed | Thurs | Fri | Sat |
|-----|-----|-------------------------|-------------------------------------|-------|-----|------------------|
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 <i>Meeting 7 PM</i> | 16 | 17 | 18 Field Trip |
| 19 | 20 | 21 <i>Field Trip</i> | 22 <i>Woolley's Workshop</i> | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | | |

UPCOMING PROGRAMS

April will feature field trip tips and safety with club field trip chairman Dave Callahan. Don't miss this essential information. Be prepared and be safe!

Workshop April 30th, 6:30-9:00 PM

Natalie Darling's Home

211 Chesterfield Rd, Lynchburg

(Call or email if you need directions~ 434-941-1899 or gmsleditor@comcast.net)

We will be putting "finishing touches" on rock candles, bookends, and sun catchers for our upcoming festivals.

No heavy tool work needed, just your creativity and willingness to help. Hope to see you there!

Kilauea's Current Eruptions: An Ocean Entry and A Puzzling Plume

A Presentation by Tim Rose, October 1, 2008

By Betty Thompson

Tim Rose, long-time MSDC friend and a geologist with the Mineral Sciences department of the Smithsonian National Museum of Natural History, had just returned from his annual explorations of new developments at the Kilauea volcano in Hawaii. We were privileged to have him bring us news of two major eruptions - one continuing and one brand new.

Tim began by reminding everyone that the Hawaiian islands were formed, and are still being formed, as the Hawaiian plate moves west over a stationary opening in the earth's mantle, through which lava is pumping to the surface and creating the islands (and causing their volcanic activity). So Lanai - the farthest west - is the oldest island, and Hawaii - the farthest east - is the newest island. Current eruptions continue to change the configuration of the islands.

Kilauea is one of the three active volcanoes on the Big Island, although there are a total of five volcanoes there. Kilauea has been erupting for 25 years from an area down from the volcano's summit, and has recently opened another eruption at the summit. Through maps and photographs, Tim showed us that the older eruption had solidified in a way that formed a cliff above a shelf. That shelf will eventually fall off - unless it is covered by new eruptions, thus keeping it attached to the island.

Pu'u O'o is the volcanic shield where the flank eruption reaches the surface. High fountain eruptions of molten lava may reach 600 feet. In the plume are orange bits of lava that fly into the air, stretch out into spatter-rock forms, rise in the huge plumes, and fall back to earth. Fresh lava also flows through lava tubes that extend from near the eruption to the ocean. For six to eight miles, the lava is underground. Lava tubes occur when crust forms above the central channel of a flow of viscous lava called a'a, which usually moves slowly but can run very fast. At the terminus of a lava tube, huge steam clouds rise as the lava enters the ocean. The lava breaks into sand and gravel as it hits cold water. That lava builds a delta by piling up on the shelf. The process continues as new lava flows onto the sand and gravel; in time, the continually increasing weight causes "bench collapse," which produces explosions. In a recent bench collapse, three people died: two were burned to death by steam, and one man was on the bench (shelf) itself and was never found.

By January 2007, the current flow had added 17 hectares to the island - and destroyed 189 structures. The Royal Gardens subdivision is directly in the lava's path. The last residents have finally abandoned their homes.

While the Pu'u'O'o eruption has been studied for some time, something brand new happened recently, at Kilauea's

Halema'uma'u crater. Halema'uma'u is a pit crater located within the much larger summit caldera. On March 12, 2008, lots of gas came very suddenly out of the wall of Halema'uma'u. It was mostly water vapor, carbon dioxide, and sulfur dioxide. On March 19, with no warning, the first explosion occurred, producing a huge plume, full of ash, with 12 pulses per minute. After that explosion, a hole opened in the crater wall. Scientists have been studying Kilauea for many years and were asking: without the presence of lava, what is going on here? The answer to that question began to emerge the day before Tim left: a helicopter directly above the pit crater observed roiling red lava bubbling about 100 meters below the rim of the pit. The Halema'uma'u story has just begun - and any future eruptions are likely to be spectacular.

But there is a darker (literally) side to the eruptions at Pu'u'O'o and Halema'uma'u. Both the Big Island and other islands are experiencing an enormous problem of VOG (like smog, but from Volcanic emanations). VOG sometimes obscures both the ocean and sunsets - a new development. Trade-winds blow it



Photo by Cynthia Payne

almost constantly in a southwest direction. VOG stays close to the ground because sulfur dioxide at the eruption site changes to sulfuric acid droplets. The volume is immense: nearly 3900 tons of sulfur dioxide per day, which translates to 5 parts per million in the air; health problems can occur at concentrations over 3 parts per million. The sulfur dioxide droplets are burning crops (although not having so much effect on native vegetation) and harming water resources. (In the Ocean View subdivision, in the path of the VOG, residents rely on rainwater catchment for their needs.) In winter, the normal kona storms will change the direction of the winds; to keep people out of the VOG path, it is likely that the national park will be closed at times.

Tim brought two rocks coated with lava that solidified before they hit the ground, from a strong explosive eruption at Kilauea just a few weeks ago, as well as spectacular brief videos of both eruption sites.

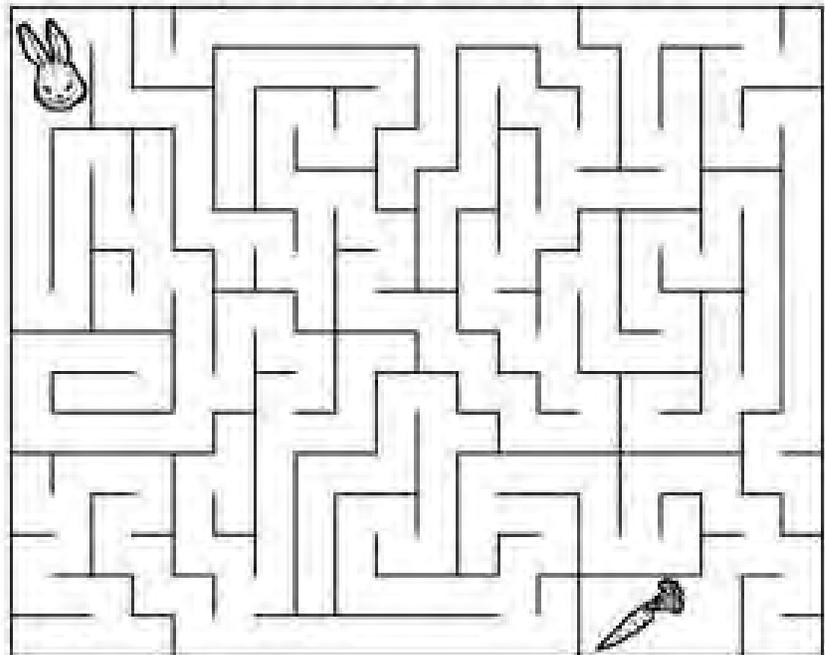
This was a splendid presentation. It was exciting to get an up-to-the-minute report from a scientist who had so recently completed his annual visit to study Kilauea and who continues to be so generous in sharing his knowledge. To stay current on all the activity at Kilauea, Tim recommended the USGS site, e.g., <http://hvo.wr.usgs.gov/kilauea/summary/main.html> and its links to maps, videos of eruptions, and a wealth of other resources.

Reprinted from Nov. 2008 issue of Mineral Minutes, Newsletter of the Mineralogical Society of the District of Columbia.

Rock Raiders



Help the Bunny Find the Carrot



Easter Crossword



EGGS
 LILY
 CHICK
 HUNNY
 BASKET
 SPRING
 PARADE
 EASTER
 FLOWERS
 WAFFLES

Happy Easter

Fresh Ideas are now being accepted for our Rock Raiders Page. Drawings, Stories, Poems, Photographs, Puzzles - what would you like to see here? Please send your ideas or submissions to the editor for consideration. Thank you for your support!

Mission Statement

Future Rockhounds of America is a nationwide nonprofit program within the American Federation of Mineralogical Societies that develops and delivers quality youth activities in the earth sciences and lapidary arts in a fun, family environment. Our underlying goals are to foster science literacy and arts education through structured activities that are engaging and challenging and by which kids- and the adults who mentor them- learn while having fun.

Executive Board Meeting Minutes

Submitted by Secretary Dorothy Rivera

Meeting Date: April 1, 2009

John Haskins: Uncle Billy's Day - Vendors will be in a new area because there will be a carnival there this year.

Nature Zone: still need someone to set up this display. The display for Mt. Athos still needs to be worked on. Members, please consider donating an item or two for these displays.

Dave Young has donated rock and gem/mineral magazines. These will be saved for the auction later this year.

Dave Callahan: Field Trips: May - Manassas Vulcan Quarry. April 25; Sterling Hill N.J. Anyone interested in attending must register & pay by April 19th. June 19-21 Kentucky Geode collecting trip. Willis Mt. on Sept. 19th- rain date Sept. 26th.

Steve Boylan: April- Safety Program; May- Bill Gilbert. Program will be on collecting in Spain. June is open. July- Vic Fleet will give a program on dinosaurs. Any ideas for programs would be appreciated.

Ralph Torning: we currently have 5 overdue members. They will be dropped off club list at 90 days.

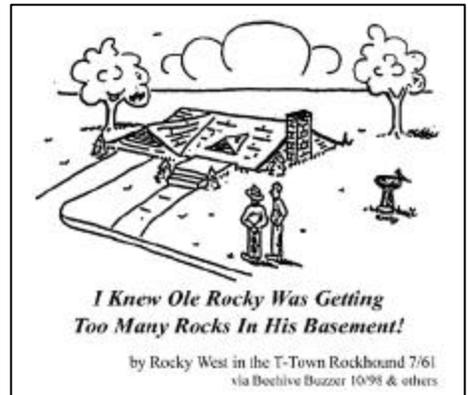
Dave Wooley: We need to find a place for club equipment. Luis Gonzalez has offered the basement of Easter Island.

Soldering Secrets of the Ancient Egyptians

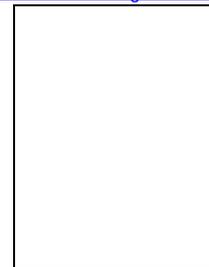
Ancient Egyptian goldsmiths soldered their work by a most clever but secret process that remained a great mystery until modern chemistry recently discovered the secret. Egyptians would solder dainty wire filigree and granular gold to a surface without flux or flooding the work with solder. The goldsmiths mixed found copper carbonate, or malachite with glue. The adhesive used to stick the grains of gold or wire into place or to coat and hold the adjacent edges of the parts to the joined.

The work was then heated on a charcoal brazier with the assistance of a blowpipe on those areas, which had to be raised to the highest temperatures. At 200 C the copper carbonate changes into copper oxides. At 600 C the adhesive becomes completely carbonized. At 850 C a curious phenomenon occurs. The gold in contact with the copper melts to form a solder joint, well below the melting point of gold.

The process had great advantages for the ancient goldsmiths. There is no precipitation of flux to throw small pieces of solder off the piece being worked and the dried adhesive already stuck the various parts together before heat was applied. All that was required to be done, once the mixture was correctly prepared and applied, was to carefully heat the piece over a bed of glowing charcoal. The beauty of this process is that the work can be subsequently reheated without the risk of unfastening joints that had previously been made. *Reprinted from Chips n Splinters, 8/96, by way of June 2008 issue of The Rockhound, Official publication of the gem and Mineral Society of the Palm Beaches, Inc.*



The **American Federation** has been nicely accumulating prizes for their endowment fund drawing. Information and prizes can be viewed in color on the AFMS website <http://www.amfed.org/endow2009.htm>



Welcome New Members

Gary
Danzer,
Louisburg,
NC

Tina
Hedrick,
Gretna,
VA

John
Monroe,
Charlottes-
ville, VA

Richard
Ewick,
Chesapeake,
VA

**Glendon Quarry ~ Saturday May 2, 2009
8AM till 3PM**

RESERVATOINS ARE CLOSED

Of the 120 slots available, members of the Lynchburg and Roanoke Clubs were assigned 24 slots. This was because we responded quickly to the email broadcast sent out Friday morning March 6th.

All slots were filled at 9:15PM that evening.

The Quarry may be open again for a September or October Fall trip. I will send the broadcast as soon as I receive it so you must respond quickly to the South Eastern Federation to reserve your slot. All the details will be included in the broadcast.



Another "Go on Your Own Field Trip"

Several members are planning to attend. For more information contact Dave Callahan.

**2009 STERLING HILL, NJ
ANNUAL FLUORESCENT MINERAL
DIG**

APRIL 25, 2009

Visit the web site-----

<http://jimcooper.biz/uvwworld2/home.html>

May 16, 2009

Bluegrass Gem and Mineral Club field trip to the Danville Ky. Quarry
Collecting: Calcite, Fluorite and Barite
YOU MUST BE A MEMBER OF THE BLUEGRASS CLUB TO ATTEND

See me for details.

WILLIS MOUNTAIN ANNUAL FALL FIELD TRIP

SEPTEMBER 19, 2009

RAIN DATE

SEPTEMBER 26, 2009

Information will e-mailed later
so reserve these dates.

This will be a big event with a lot of clubs attending

POSSIBLE DATE FOR OUR ANNUAL
KENTUCKY GEODE ADVENTURE
JUNE 19, 20, 21

DANVILLE, KENTUCKY AREA

PLANS BEING DEVELOPED
STAY TUNED FOR MORE INFORMATION




Rock Gem and Mineral Show
at the
Mountain Mushroom Festival
April 24-26
Irvine, KY

Large Display of Kentucky Agate
Mineral Specimens and Sales
Fossil and Agate Sales
Jewelry Sales
Bluegrass Gem & Mineral Club, Co Sponsors

Show Hours:
Saturday 9 AM to 7 PM
Sunday 10 AM to 6 PM



Hobby Related Newsletters are available free of charge by emailing the editors below. Both are great sources of information and worth checking out. (Available only via email)
rudybland@worldnet.att.net (*Mineral Mouse*, editor Rudy Bland)
rockhound_zack@yahoo.com (*Zack's Rocks and Minerals*, editor Zachary McKinney)

Websites to visit: Lynchburg Gem and Mineral Society: www.lynchburgrockclub.org
 The SFMS Newsletter, the Eastern Federation Newsletter, and the AFMS Newsletters are available for all members to read on line at the Federation Websites:
www.amfed.org/sfms, www.amfed.org and www.amfed.org/efms

The Gem & Mineral Society of Lynchburg, VA Inc.
 Natalie Darling, Editor
 211 Chesterfield Rd.
 Lynchburg, VA 24502 www.lynchburgrockclub.org

The purpose of the Gem & Mineral Society of Lynchburg, INC. is to promote education in The Earth Sciences including: Mineralogy, Geology, Gemology, Paleontology, and Crystallography



Lynchburg Rock Raiders is the official FRA association of The Gem & Mineral Society of Lynchburg, VA INC

