

GOLDRUSH LEDGER

March 2007
Charlotte, North Carolina



FROM THE PREZ

Devin McRorie

Spring is here! Field trips are gearing up, classes at William Holland and Wild Acres are filling up, and the Charlotte Gem Show is coming up!

The Charlotte show is in April and we need your help to make

it a success. Please ask Jimmy Strickland how you can chip in.

For our next club meeting we're showing movies that take you deep into the heart of the gem mining counties of Pakistan, Brazil, and Madagascar. Don't miss it!

Our 50th Year

March Meeting
Thursday, March 15
Come learn about gem mining in Pakistan, Brazil, and Madagascar.

The mineral for the month is *boltwoodite*.

Please bring your samples of *boltwoodite* to the meeting to share with the club.



Cabochon Machine

A cabochon machine is available at the home of Jimmy Strickland (704/537-6010), and he can teach you how to use it.

Please call to plan a visit.

The machine belongs to the club; you MUST be a club member to use it.

Charlotte Gem & Mineral Club's 40th Annual Gem, Mineral & Jewelry Show & Sale April 27-29, 2007

Charlotte Merchandise Mart
2500 E. Independence Blvd., (Hwy. 74)

April 27 10:00 a.m. to 6:00 p.m.
April 28 10:00 a.m. to 6:00 p.m.
April 29 10:00 a.m. to 5:00 p.m.

2007 CGMC
Officers & Board

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open

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open

Refreshments Chairman

open

Workshop Chairman

open

Web Master

Ron Gibbs

Librarian

Pat Walker

704/523-5261

Picnic Chairman

open

Christmas Party Chairman

Pat Walker

Refreshments

If you would be interested in providing refreshments for the March meeting, please contact Kim Tyler at bbck4@yahoo.com.

Expenses up to \$30, with receipt, will be reimbursed by the club.

Please consider helping the club with this job. Our social time after the meetings is a lot more fun with something to munch on while we visit!

2007 Dues

Please remember that our new year starts in December and it is past time to pay your annual dues. A signed copy of the membership application is required with your dues. The membership application form may be downloaded from the club web site:

<http://www.charlottegem.com>

Stamp Program

Our club is a participating member in the SFMS cancelled-stamp program. Our members are asked to save stamps from their mail by cutting around the stamp, leaving 1/4" so as not to damage the edges of the stamp. The stamps can be soaked off of envelopes, and our club will receive twice as many credits for stamps delivered in this condition than it will for those still stuck on the paper. Please check the SFMS website at

<http://www.amfed.org/sfms/stamp-program.html>

for specific information and instructions for the stamp program. Members are also asked to collect the white labels printed by the USPS (showing the cost of mailing and the origination and destination zip codes). Members may turn in their collections at regular meetings, being sure to include a piece of paper with their names. A drawing will be held in September to provide at least one name for inclusion in the Federation's annual scholarship drawing. Last year five workshop scholarships were awarded!

In the News

Mexico City—A miner in the state of Chiapas found a tiny tree frog that has been preserved in amber for 5 million years, a researcher said. If authenticated, the preserved frog would be the first of its kind found in Mexico, according to David Grimaldi, a biologist and curator at the American Museum of Natural History, who was not involved in the find. The chunk of amber containing the frog, less than half an inch long, was uncovered by a miner in Mexico's southern Chiapas state in 2005 and was bought by a private collector, who lent it to scientists for study.

A few other preserved frogs have been found in chunks of amber—a stone formed by ancient tree sap—mostly in the Dominican Republic. Like those, the frog found in Chiapas appears to be of the genus *Craugastor*, whose descendants still inhabit the region, said biologist Gerardo Carbot of the Chiapas Natural History and Ecology Institute. Carbot announced the discovery this week. The scientist said the frog lived about 25 million years ago, based on the geological strata where the amber was found.

Carbot would like to extract a sample from the frog's remains in hopes of finding DNA that could identify the particular species, but doubts the owner would let him drill into the stone. "I don't think he will allow it, because it's a very rare, unique piece," said Carbot. Grimaldi of the American Museum of Natural History called the idea of extracting DNA "highly, highly unlikely," given that—as other scientists have noted—genetic material tends to break down over time. But George O. Poinar, an entomologist at Oregon State University who founded the Amber Institute, said extracting DNA is theoretically possible. "If it's well-preserved ... and none of the frog has been exposed to the outside, where air could enter in and oxidize the DNA, it could be possible to get DNA."

Thanks to Danny Jones for submitting this for publication

Upcoming Field Trips

Graves Mountain Rock Swap and Dig, Lincolnton, Georgia
April 27th-29th, 2007, and October 5-7, 2007, 8 a.m.-6 p.m.

"Your society is invited to field collect minerals at Georgia's premiere mineral location!"

The SFMS Field Trip Committee has been in contact with the caretaker in charge of Graves Mountain, Clarence Norman, Jr., in regard to his plans to hold two separate three day digs and rock swaps on the Mountain during April 27, 28, & 29, 2007, and during October 5, 6, & 7, 2007. He will have the mountain open for collecting from 8 a.m. to 6 p.m. 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 p.m. 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. Don't forget to bring some extra money to buy the special "Graves Mountain Rock Swap and Dig" T-shirt!

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!

Contact Information: Clarence Norman Jr. - 706.359.3862 (his business) or 706.359.2381 (his home)

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.

Graves Mountain code of conduct!

- * Park your vehicle in the designated area(s) only.
- * Children will be allowed during the "Rock Swap and Dig", **if each child is under continuous adult supervision!**
- * The Graves Mt. caretaker, Clarence Norman, Jr., has final & absolute say as to where you may safely work.
- * Ladders or power tools of any kind will not be allowed (**hand tools only**).
- * **STAY AWAY FROM ALL HIGH WALLS!!**
- * **NO REPELLING OFF OF ANYTHING!**
- * **NO ONE IS ALLOWED TO DRIVE THEIR VEHICLE ON ANY PART OF GRAVES MOUNTAIN BEYOND THE PARKING AREA!** (The caretaker must accompany anyone driving beyond the parking area!)
- * **EVERYONE NEEDS TO BE OFF THE MOUNTAIN BY DUSK.** (Absolutely no one is allowed on Graves Mountain after dark.)

Please protect our ability to field collect at Graves Mountain! Report Violations to: Clarence Norman Jr. 706.359.3862 (his business) or 706.359.2381 (his home) All reported violations will be held in strict confidence.(his home) All reported violations will be held in strict confidence.

Upcoming Field Trips (cont.)

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 Charlotte Gem and Mineral Club
Saturday and Sunday, March 17 & 18, 2007
Hickory Cane Mines, Marion, Kentucky
FEE SITE

Where: The Hickory Cane Mines outside of Marion, Kentucky

When: Sat. and Sun., March 17 & 18, 2007

Time: Day and night digs.

Collecting: Fluorite, smithsonite, sphalerite, cerussite, galena, hemimorphite, hydrozincite, quartz, & pyromorphite. Calcite is by far the most common mineral found, and all other minerals require some digging in the dump to locate.

Fee: The day time digs will cost \$20 and the night time digs will be \$30 (this entitles you to one five gallon bucket of specimens). Admission to the Ben Clement Fluorite Museum is \$5.

All reservations for the digs will be handled through the Ben E. Clement Mineral Museum at www.MarionKentucky.us. Or call 270-965-9257, or write Ben E. Clement Mineral Museum, 205 North Walker Street, Marion, Kentucky 42064. Information on campgrounds, lodging, and bed and breakfasts can also be obtained from Clement Mineral Museum. In order to fill any vacancies in the scheduled digs left by the SFMS after March 1, 2007, these vacancies will be open to KYANA members and any other rockhound who wishes to join the dig. While the primary purpose of this trip is to accommodate SFMS members, the secondary purpose is to help the Ben E. Clement Mineral Museum fund its efforts in maintaining a world class fluorite collection and making it available to the public.

What to Bring: Other than standard collecting equipment, bring plenty of water, snacks, camera, and you will need a portable ultraviolet light. Daytime collectors will need a way to check fluorescence too! Black light boxes or whatever suits you. Night time collectors will need a standard flashlight to travel to and from their cars. The time of the month was chosen because it is the dark of the moon! Short wave and broad spectrum ultraviolet lights are best. Most collectors will share their lights, but do not count on it, after all someone will need to bring a light. Although, the temperatures have been unseasonably warm thus far, March can occasionally be quite brisk in the Ohio Valley. So be prepared to dress warmly, multiple layers works best.

Mine History: The mines where the dig is to be conducted are located on the Commodore fault system and date back to 1901. Mine shafts on the property have produced fluorite, smithsonite and sphalerite. Other minerals that have been found in the mine dumps include; cerussite, galena, hemimorphite, hydrozincite, quartz, & pyromorphite. Calcite is by far the most common mineral found, and all other minerals require some digging in the dump to locate.

The Rock Shaft dump comprises most of the material at this mine site. The Rock shaft was completed to the depth of 240 feet. From 1924-25 some 8,000 tons of smithsonite was removed from the Rock Shaft. The Maddox shaft sunk in 1941-42 was completed to remove approximately 215 tons of "gravel spar" (fluorite). A crosscut was made from the Maddox shaft to the Commodore Fault and in 1945 a vertical raise was cut up through the Commodore Fault zone. This raise is known as the Yandell shaft. Mud, gouge, calcite, fragments of fluorite veins, sphalerite and galena were noted (R. Trace, 1954). There is an open shaft on the site which is surrounded by barbed wire.

The most common fluorescent mineral is calcite which glows a soft to bright pearly white. There are other colors other than white, but they are fewer in number. Of particular note are specimens of sandstone which glow a coral pink to a bright red in either short wave or broad spectrum ultraviolet light. There are also specimens which glow various shades of pale yellow and bright blue. Please note: that included in the spoil are fragments of mortar and concrete which will also fluoresce. The concrete and mortar was made from rock from the mine.

Charles Oldham a retired professional geologist from the Kentucky Department for Surface Mining with over 30 years of mining experience will be your KYANA host, along with his sidekick Betty Hansel and as many KYANA members as we can carry. Charles has been collecting minerals and fossils for over 50 years, starting at the age of five, when his father gave him a "gold ore" specimen from California. In later years his father (a retired naval engineering officer) asked Charles why he became a geologist and not an engineer. Charles replied you should have given me a micrometer and not a rock!

DMC CONTACT: Charles Oldham, 502-241-8755 CrystalCottage@aol.com

Upcoming Field Trips (cont.)

**An Official Field Trip of
The Gaston County Gem, Mineral & Faceting Club, Gastonia, NC (Host)
An Official Field Trip of the Charlotte Gem and Mineral Club
8:00 a.m. (EST) SHARP!
Saturday, March 18, 2006
Martin-Marietta Aggregates Quarry
Statesville, NC**

This is a working quarry and safety requirements are strict! All participants will be required to wear hard hats, safety glasses, and steel-toed shoes. Upon arrival, you will be required to sign a waiver of liability. There is a safety orientation and, if you miss it, you may not be allowed into the quarry. Everyone will need to sign a release and receive information on boundaries and safety in the collecting area. Stay away from high walls and be cautious as to footing at all times! Watch for moving equipment—you will be much smaller than it is!

Where: Martin-Marietta Aggregates quarry in Statesville, NC. Meet at the quarry office at 8:00 a.m. SHARP!

When: Saturday, March 18, 2006

Time: 8:00 a.m. SHARP! to Noon (EST). We will need to leave by NOON!

Collecting: Garnets in mica schist. Occasionally you may find kyanite, hornblendes, quartz types, pyrite and, rarely, chalcopyrite.

Directions: from Charlotte/Gastonia: Take I-85 North to I-77 North. Upon arrival in Statesville take I-40 west 2 miles to exit #150, which is Hwy 115. The quarry entrance is on the left. BEWARE OF TRUCKS! Severe conditions may cancel the trip, but our weather is usually quite mild this time of the year. Meet at the quarry office at 8:00 a.m. SHARP!

What to Bring: You will need to bring your own food and drink to the quarry, but it is only a few minutes from the interstate and town. Also bring your rock hammer, chisels, pry bar, scratching tools, buckets, and newspaper to wrap your finds.

Contact: Doug Dover at 704/825-9580 for further questions. If no answer, leave a message, or you can e-mail: ddover@carolina.rr.com.

"Field trips are open to all members of associated clubs of the DMC program of the SFMS Field Trip Committee and to all members of SFMS member clubs who have provided their membership with SFMS liability insurance. Because of insurance requirements, members of the GENERAL PUBLIC are NOT invited on this or any DMC program field trips!"

MAGMA Trips

Abernathy Mica Mine, Mitchell County, N.C., March 24th, 2007

We will visit the Abernathy Mine in Mitchell Co. on the 24th. I like to get there every winter to take pics of the bats that hibernate there. If you want a tour of the inside of the lower workings of the mine, bring hip waders or chest waders as the mine is usually filled with water at the entrance. It is a 1.5 mile hike down railroad tracks to get to the site. We will be collecting across the tracks on the dump piles from the mine, no collecting will be done in the mine!. We will be collecting gemmy almandine garnets, gem apatite, and very nice red rum mica, "redrum." I also have another location very nearby that has not been worked in years that should produce the same material. We will meet at 9:00 at the parking lot in front of the Silver Armadillo rockshop located in the Westgate Shopping Center in West Asheville. Tools: Small sledge, Chisel, Backpack or bucket, Newspaper, Hand rake, Camera

Crabtree Emerald Mine, Machine Dig!, April 20-22, 2007

Time for our first official club trip of 2007 to the Crabtree Emerald Mine in Spruce Pine. We will again have a small track hoe on site digging the dumps; this time we have identified a location where much quality material has been found, this is rumored to be part of the old Tiffany Mine dumps! I have seen numerous fantastic specimens that have been recovered from this area within the last several months. I plan to get the machine over this area and pull as much of it as possible to the top for the members to go through. The cost for this dig will be \$25.00 for one day, \$40.00 for two days, or \$50.00 for all three days. Make sure to have your release form filled out when you arrive and bring it to me ASAP with payment. You can copy the form and get directions to the mine at my website, <http://www.wncrocks.com/resources/Collecting%20sites.htm>; if unable to get the form, I will have copies at the mine. I plan to arrive at the mine early Friday and stay through Sunday afternoon. We will have the camping area open as usual. Tools: Shovel, 1/4" sifting screen, Big sledge, Small sledge, Chisels, Bucket

Upcoming Field Trips (cont.)

**DMC Program of the SFMS Field Trip Committee
An Official Field Trip of The Cotton Indian
Gem and Mineral Society (Host)
An Official Field Trip of the Charlotte Gem and Mineral Club
10:00 a.m., Saturday April 21, 2007
Girard, Burke County, GA, "Savannah River Agate"**

Where: The River road outside of Girard, GA.

When: Saturday April 21, 2007

Time: 10:00 a.m. at the Girard city Post Office on Hwy. 23

Children: Children are welcome but need to be supervised as we will be hunting on a dirt road.

Pets: Same as above.

Trip: Beautiful Savannah River Agate has been collected at this location for years. I have been told that there is as much material here today as there ever was.

Collecting: We will be collecting Savannah River Agate, fossils and micro minerals. This material is actually a conglomeration of agate, jasper, chert, and opalite all mixed together to form a layered specimen that will tumble or cab into beautiful display pieces. This rock occurs as black and brown mottled agate and in a large range of pastel colors from greens to yellows to violets. The fossils you may find are from 30-35 million-years-old Oligocene age deposits. The micro-minerals are located in vugs of the agate/chert rock.

Special Conditions: We will be hunting in the roadway and road cuts only. Do Not leave the road cuts. Please stay off of private property.

Bring: You will need to bring a rock hammer and scratching tool to collect the agate. You can dig if you want but make sure you fill in your holes after your finished. If you plan to look for micro-minerals by busting the larger agate/chert specimens, you will also need some chisels and a sledge. More importantly you NEED eye protection (face shield would be best) and long heavy pants as this agate can act like shrapnel when cracked with a rock hammer or sledge! As always, bring your lunch, plenty of fluids, some bug spray, sun screen, a hat, gloves, sturdy shoes and lots of 5 gal. buckets (trust me—you will need them!).

Where to meet: We will meet at the Girard city Post Office on Hwy. 23.

Directions: From I-20 take Hwy. 520 (west of Augusta) south to Hwy. 56 and travel south. Go through McBean (do not take Hwy. 56 Spur). Turn left on Hwy. 23 to Girard and meet at the Post Office at 10 a.m.

Drive time: From Atlanta 3 to 3 1/2 hours.

Contact: Harry Hyaduck 678-464-4462 email, hyaduckh@yahoo.com or Kim Cochran 770-979-8331
Need more directions, call Kim Cochran

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**Charlotte Gem & Mineral Club's
40th Annual
Gem, Mineral & Jewelry Show & Sale
April 27-29, 2007**

Charlotte Merchandise Mart

2500 E. Independence Blvd., (Hwy. 74)

April 27 10:00 a.m. to 6:00 p.m.

April 28 10:00 a.m. to 6:00 p.m.

April 29 10:00 a.m. to 5:00 p.m.

Admission: \$3.50 for adults;
\$2.50 for seniors (60 years and better) and students;
free for children under 10
Free Parking

Special Attraction

CGMC's Hornet's Nest

**(a real hornet's nest fully covered in gold leaf,
with gold-cast hornets buzzing around!)**

It's time to begin thinking about how you will help with the annual club show. You may sign up for 3-4 hour time slots at the March meeting. Volunteers are needed in many areas, such as publicity; set-up/tear-down; exhibits; demonstrations; and ticket, geode and club booths. Earn free admission by working on any aspect of the show for a minimum of 4 hours per person; a club tee shirt by working at least 6 hours; and a chance to win a stone faceted by Master Cutter Jimmy Strickland for working 10 hours or more! Demonstration volunteers may sell their crafts during their demonstration time.

*Bring any questions to the meeting March 15
and plan to sign up to help!*

Mineral of the Month



boltwoodite



Chemistry: $K_2H_2(UO_2/SiO_4)2.4H_2O$

Uses: as an ore of uranium and as a specimen

Color: bright yellow, yellow to pale yellowish, crystals transparent to translucent

Hardness: 3.5-4

Specific gravity: 3.6-4.3

Crystals: The crystal system is monoclinic and is found as massive crusts or as acicular crystals.

Accompanied by: uranophane, Uranite and other uranium minerals

Fracture: uneven

Luster: vitreous, translucent

Cleavage: good

Streak: pale yellow

Similar to: Boltwoodite is a rare uranium mineral that is highly radioactive.

It fluoresces and is found at the following locations in Scandinavia: Västervik, in fractures or as surfaces on other rocks; Lilljuthatten; Krokum; Jämtland; Olden power plant, Krokum.

Notable occurrences outside Scandinavia: Rossing Mine, Swakopmund District, Namibia; New Method Mine, San Bernardino County, California, USA.

Used by permission, Gerdus Brönn website, www.mineralgallery.co.za

CHANGES TO 2007 WORKSHOP SCHEDULE

There have been some changes and additions to the William Holland and Wildacres workshops for this year. Please note the following:

Wildacres - April 13-19: Wirecraft Sculpture is an *advanced class.

William Holland - June 10-16: Faceting is a beginning class and Southwest Silversmithing is an *advanced class.

Wildacres - August 20-26: Seed Beading will be taught by Vivian Heath and Wirecraft Rings is an *advanced class.

Wildacres - September 17-23: Chainmaking is an intermediate class, Southwest Silversmithing is an *advanced class, and Seed Beading will be taught by Barbera Green.

William Holland - October 14-20: Beginning chainmaking is canceled, Intarsia is an *advanced class, and Wirecraft Rings is an *advanced class.

*Advanced classes have prerequisites. Check with the instructor for details.

Julia Larson, SFMS Education Chairman

Upcoming Shows

March 9-11, 2007, Augusta, GA—Aiken Gem, Mineral, and Fossil Society and the Augusta Gem and Mineral Society. 19th Annual Aiken-Augusta Gem, Mineral and Fossil Show. Julian Smith Casino, 2200 Broad Street. Contact: Shellie T. Newell at 305 Fairway Drive, Graniteville, SC 29829; aa.gmfs@earthlink.net; or www.homestead.com/aikengms.

March 16-18, 2007, Rome, GA—Rome, Georgia Mineral Society. 30th Annual Valley and Ridge Gem and Mineral Show. Chapel Hill United Methodist Church (From the Rome Bypass (GA Loop 1), turn East on to Kingston Rd. (Hwy 293), drive a few hundred yards and turn right into the show at Chapel Hill United Methodist Church. The mineral show will be in the gym past the parking lot). Hours: 16th & 17th, 10:00 a.m.-6:00 p.m.; 18th, 1:00 p.m.- 5:00 p.m. Contact: Tim Biggart, Show Chair 706.232.7143 or tbiggart@berry.edu.

March 23-25, 2007, Raleigh, NC—Tarheel Gem and Mineral Club. 31st Annual Gem and Mineral Show, Kerr Scott Building, NC State Fairgrounds. Contact: Cyndy Hummel, 919.779.6220 or mchummel@mindspring.com.
April 28-29, 2007, Memphis, TN - Memphis Archaeological and Geological Society. 28th Annual Mid-America Mineral, Fossil, and Jewelry Show. Pipkin Building Midsouth Fairgrounds (corner of East Parkway and Central Avenue). Hours: 28th, 9:00 a.m.-6:00 p.m.; 29th, 10:00 a.m.-5:00 p.m. Contact: James Butcko at 901.743.0058 or rockclub@earthlink.net.

May 11-13, 2007, Marietta, GA—Georgia Mineral Society. 39th Annual Mother's Day Weekend Gem and Mineral Show. Cobb County Civic Center, 548 Marietta Parkwy (corner of North Marietta Parkway and Fairgrounds Road). Hours: 11th & 12th, 10:00 a.m.-6:00 p.m.; 13th, 12:00 Noon-5:00 p.m.. www.gamineral.org.

More Upcoming MAGMA Trips

Arkansas Crystal Dig!, May 31st-June 3rd, 2007 Various Mines near or in Mt. Ida Arkansas

This will be the first MAGMA club trip to this famous area to dig for quartz crystals! We will be visiting the "Lonesome Dove Mine" owned by Rodney Moore. We also plan to visit the Arrowhead and maybe others while in town. I plan to travel to Arkansas on Wednesday to set up camp at Rodney's mine, and start digging Thursday. More concrete plans for the week and weekend as the trip plans are confirmed.

Annual 4th of July, Buck Creek Campout and Dig! Clay County, N.C., July 4th-8th, 2007

Once again we will be conducting our 4th of July dig at the Buck Creek Mining District in Clay County, N.C. This has been a very fun trip for the past few years and I'm sure it will be a blast again this year. The trip will begin on Wednesday the 4th and continue through Sunday; bring plenty of fireworks to celebrate through the week and weekend! We will be mainly hunting for corundum. Jerry Fortenberry will have his boat at Lake Chatuge during one of the days of the trip, we will be SCUBA diving for gravel beds in the lake that contain corundum, the members on the boat can sift the gravel for corundum as we bring it up, we will take turns letting various members on the boat as we dive for the sapphires. Please make a small donation to Jerry to offset the cost of bringing the boat and fuel etc. We also plan to possibly take a day and raft/canoe down through the Cowee Valley and stop at several intervals to search the creek banks for rubies and sapphires, this should be a fun week of collecting!

Tools: Shovel, 1/4" sifting screen, Small hammer

Directions: Follow Hwy. 64 West from Franklin towards Hayesville, N.C., once you cross the Clay County line, drive approx. a mile and begin looking for the MAGMA signs on the right, the signs will direct you to the camp area.

Kim Tyler, Bulletin Editor
5437 Somerset Lane
Harrisburg, NC 28075
Email: bbck4@yahoo.com

Next Meeting

**Thursday, March 15
7:30 p.m.
Discovery Place**

**March 15
2007**



GOLDRUSH LEDGER

First Class Mail

«First Name» «Last Name»
«Address»
«Address 1»
«City», «State» «PostalCode»

The Goldrush Ledger is published monthly in Charlotte, North Carolina. Articles may be reproduced provided proper credit is given to the author and to this publication. Deadline for publication is the first Thursday of each month. Material may be submitted at club or executive board meetings, or mailed directly to the Editor, and will be in the next issue if still timely. All articles must be signed and, where applicable, references must be provided. The Charlotte Gem & Mineral Club is a member of the Southeast Federation of Mineralogical Societies, an affiliate member of the American Federation of Mineralogical Societies, and an affiliate of the Arts & Science Council of Charlotte, North Carolina. Annual dues of \$20.00 (family) and \$15.00 (individual) are payable in December for the following year. The purpose of this Club is to foster interest in, and promote knowledge of, minerals, gems, fossils, and all earth sciences. We also disseminate information and instruction in the lapidary arts and the utilization of precious metals in our crafts. These purposes are accomplished through regular meetings (usually the third Thursday of each month at 7:30pm, at Discovery Place, 301 N. Tryon Street, Charlotte) with informative programs, study groups, workshops and field trips. Visitors are most welcome to our club meetings. For more information, write our club at: P.O. Box 10233, Charlotte, NC 28212-5667.

WEB SITE: <http://www.charlottegem.com>