

Tar Heel Tailings

A newsletter for Gem and Mineral enthusiasts in and around the Raleigh, North Carolina area.

Special Interest Articles:

- President's Report
- Open Council Meetings
- Field Trip Notice
- Azurite to Malachite

Individual Highlights:

President's Report	1
Open Council Meetings	1
Treasurer's Report	2
February's Business Meeting Minutes	3
Azurite to Malachite	4
Tarheel Gem & Mineral Club Official Field Trip Notice	5
Show Chairpeople / Show Info	6
Upcoming Shows:	7
Vug Sites:	7

President's Report

Hello Everyone, It looks like it's SHOW TIME!

The trailer is ready to roll thanks to Dr. Mike Franklin who spent a couple days recently checking and changing the tires. It is a relief to know the trailer can be transported safely! Thank-you, Mike.

There will be sign-up sheets at the meeting for folks to sign

Continued on page 4



Open Council Meetings

By Joe Moylan

Meetings of the Executive Council will be open to the non-voting membership. Time will be given at the beginning of each meeting for any member to voice their grievance, proposal, or comments on any topic on the agenda. After this time all non-voting members will be observers and only allowed to comment when called upon.

Meetings of the Executive Council will attempt to be held one hour before regularly scheduled

monthly meetings announced at the previous meeting. Announcement of all club and other Executive Council meetings will be made at the previous monthly meetings if at all possible.

Continued on page 3



Multi-strand Keshi necklace
Probably saltwater – Keshi are a by-product of the culture pearl industry

Tar Heel Gem & Mineral Club, Inc.

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We're on the Web!

See us at:

www.tarheelclub.org

Program & Refreshments

REFRESHMENT SCHEDULE:

Coordinator: Jeanette Baugh (919) 522-9044
villagegems@yahoo.com

March	Marion Broadway
April	Potluck
May	Sarah and Barrett Redpath
June	Open
July	Open
August	Ice Cream Social
September	Walt Milowic
October	Cyndy and Corinne Hummel
November	Jerry and Deborah Miller

PROGRAM SCHEDULE:

March	Grab Bags/Addressing Postcards
April	Open
May	Open
June	Open
July	Open
August	Ice Cream Social
September	Open
October	Open
November	Open

The Club reimburses members up to \$75 for bringing refreshments. Please let Jeanette know on Tuesday if you would be willing to bring refreshments for the June or July meetings. Your fellow club members will be grateful. Thank you.

February Treasurer's Report

Beginning Balance February 1, 2011

160.00	Deposit Members
150.00	Deposit Members
92.00	Deposit Members Cash
335.00	Deposit Members
140.00	Deposit Members

\$15,752.33

168.07	Newsletters
9.39	Office Supplies
200.00	Refund Dealer
86.00	Storage
68.49	Pvc pipes for signs

\$15,220.36 Ending Balance

\$ 5,274.52
\$ 5,359.92
\$ 5,667.37

\$14,875.33 CD'S IN BANK

March B-Day Members

- Leslie Booker
- Sharon Allsbrook
- Doane Bridges
- Ron Simmons
- Sharon Starke
- Dennis Herman
- Sarah Milowic
- Fredora Jones
- Helen Lawrence
- Jonathan Mather
- Nancy McLendon
- Noah Potter
- Joseph, Joey & Cathy Stephens



Membership applications may be mailed to:

Tarheel Gem & Mineral Club
Attention: Treasurer
10609 Chelsea Drive
Raleigh, NC 27603

Tar Heel G & M Club February Meeting Minutes

Tuesday, February 18, 2011

President Joe Moylan opened the meeting at 7:39.

Joe introduced Stuart Esposito. Stuart spoke about pearls and how they are farmed in Indonesia. He showed a video he had made of a pearl farm he visited. They don't waste any of the pearl. All parts are used. They Xray to make sure the nuclei they insert actually take, and start forming pearls. Gold pearls are made by adding a bit of the mantle to the nuclei.

8:20 The meeting was recessed for refreshments.

8:35 Meeting was reconvened for the business portion.

Tom Todaro reported on the field trip to the Haw River Quarry, about twenty people attended. The foreman welcomed us back any time due to the outstanding cooperation of our club members. Tom also mentioned other Martin Marietta sites we might visit. The Haw River quarry can be found by entering Luckstone Road into your GPS. Everyone agreed that it was a great place and we will revisit it again. Other sites were suggested, one in Cary near Umstead.

Tom suggested a gift for the managers of the quarry to show our appreciation. Several ideas were tossed around with general agreement. A gift card seemed to be the top choice.

Mike Franklin mentioned the Azurite to Malachite transition in a painting by Raphael. The blue of the Azurite changed to green in the presence of moisture.

Young Alexis pulled a ticket and John Nigro won the drawing. He chose a bag of assorted slabs as his choice.

Bob Bendelow mentioned the clubs microscopes and that they were available for use and that they would be good to have them at the show for people to look at things they purchase.

Joe spoke about preparations for the show and the need to start collecting names for the different stations the club has at the show. Several lists were started including geodes and hospitality signups. Greg Dillon mentioned he needs the most support for take down on Sunday.

Joe said that he would be contacting Graham, the club member who stores our trailer. We discussed that we would probably need several new tires. There was also a possibility of moving some things from the trailer to the storage area after the show. Mike Franklin offered to take care of the tires.

Greg Dillon said that we need a new motor for one of the saws, and asked if anyone knew where to get one. If you want to help with geodes you may signup at the next

meeting, or contact Greg at wygunsSmoke@aol.com Call 772-3164 leave a message.

Food/menu for the show was brought up and will be discussed at the next board meeting.

Joe asked if anyone was interested in claiming one of the display booths for the show. A signup list for the display booths was started. If anyone wants to work with the silent auction or if you have any donations, please call Becky Heally nchealey@bellsouth.net

Initial show setup will be 5-8PM, Thursday, March 31st. The show times are Friday 5-9, Sat 10-6, and Sun 10-5. Flyers and postcards for the show will be filled out at the next meeting.

Jeanette Baugh mentioned that we have someone for March refreshments but that we need someone for June and July.

The Newsletter editor George Harris said that if you get your newsletter by email, it's all in color.

Cyndy Hummell asked that everyone bring rough stones and other materials to the March meeting for the grab bags.

Joe Moylan mentioned the Internet Forum that is being worked on for the club. The current web host cannot handle the Forum so we may have to change hosts. Scott LaBorde is looking at a free Forum just for club members. It is easy to moderate and a good way to communicate.

Joe said that the board must meet before the next meeting.

Joe Moylan took a question about whether anyone can sit in on a board meeting. The answer was yes. They can observe and make suggestions, but can't vote. Having regularly scheduled board meetings would be helpful. Cyndy said you should send in your question/comments for the board ahead of time. Joe would like to meet regularly 6:30 to 7:30 before each regular meeting.

Joe said we will do a better job getting the lists of the volunteers for the show. We need a special form with names and amounts of time.

Marion Broadway told the group that we can collect trimmed foreign and local stamps for SE Federation to raise money for association, and metal pop tops can be used to raise money for William. Bring them to any meeting or the show.

We should think about the kid's programs for the show. We need to preplan a better area for it, perhaps in the demonstration area.

Joe Moylan closed the meeting at 9:30.

Respectfully Submitted, Walt Milowic

Open Council Meetings

Continued from page 1

An agenda of all items and topics to be discussed "should" be compiled and delivered to all Executive Council members two weeks before each council meeting.

President's Report

Continued from page 1

so the coordinators of each area will have an idea of how many volunteers they can count on and when. There will also be "sign-in" sheets at each booth during the show. Don't forget to sign these and include the hours you worked on each. We also have five display cabinets that are unspoken for as yet. Please let me know at the meeting if you would like to fill one of these cases. First come first serve, so don't wait.

The main portion of the meeting will be signing postcards for mailing and bagging Grab Bags. Please bring as much material for the bags as you can find lying around your back yard, and keep in mind while on our club field trips, that even if it isn't a specimen you would want to stick on your shelf at home, it may be great material for the Grab Bags. So start stocking up!

At the last Board Meeting we discussed many possible ways that we can curb our expenses and generate more funds for the club. We have been spending more on miscellaneous items this past year than in recent years. We decided to have the catered BBQ and chicken dinner Friday evening at the show as usual, but this may be the last year for that. We will also be cutting back on the food provided for members' lunches Saturday and Sunday. We will provide drinks, snacks, and some food but anyone who

would like to bring a covered dish for the group is more than welcome.

It has also been suggested we do away with the refreshments at our regular club meetings. This we will bring to a vote at the next meeting. The options we will be voting on are; 1. Do away with the refreshments all together. 2. Cut the budget back from \$75.00 to \$40.00, (ie; enough for drinks and snacks) 3. Leave it the way it is.

We have increased the fee for dealers' tables at the show from \$90.00 to 95.00. We will also be increasing members' club dues next year by \$5.00 to, \$20.00 for a single, \$25.00 for family. We will also be trying to convert the postcard advertisement process to e-mail.

The annual fee for the clubs' storage unit is about the same as the Friday night catered meal. Several members have suggested we start storing the display cases for the show and maybe one of the saws in the storage unit for easier access and to lighten the load in the trailer.

As always, there is more work to be done, but for now let's concentrate on the Show, and have some FUN!

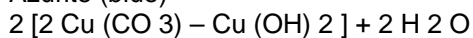
See You at the next meeting,

Joe Moylan

Azurite to Malachite (Transforming from one mineral to another)

By Mike Franklin

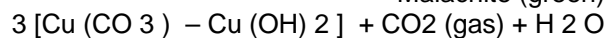
Azurite (blue)



ratios: 2 (Cu carbonates) to 1 Cu hydroxide

Cu = copper, CO₃ = carbonate, OH = hydroxide, CO₂ carbon dioxide, H₂O = water

Malachite (green)



1 Cu carbonate to 1 Cu hydroxide

The chemical equation above is balanced = same number of elements on each side. Since after carbon dioxide forms it escapes into the air, the reaction is irreversible. This means that the malachite cannot change back into azurite.



Raphael painted this in 1504 AD "Madonna and Child Enthroned with Saints" It is currently hanging in the Metropolitan Museum of Art in New York City, NY
Azurite (blue pigment) is slowly changing to malachite (green pigment)

<http://www.webexhibits.org/pigments/individ/overview/azurite.html>



A specimen of Azurite on Malachite from the Morenci pit Mine, Greenlee County.

TAR HEEL GEM & MINERAL CLUB - FIELD TRIP NOTICE

FIELD TRIP DAY / DATE	SATURDAY, March 19th
TIME:	09:00 am – 2:00 pm
QUARRY OPERATOR	MARTIN-MARIETTA
QUARRY NAME	Central Rock Quarry
QUARRY ADDRESS:	3957 Liberty Road, Greensboro, NC 27406
QUARRY TELEPHONE:	336-674-0836
QUARRY IN-CHARGE	David Thorne
TAR HEEL TRIP COORD	Thomas Todaro, 919-349-9143 (M), 919-639-7798 (H) caribtomt@yahoo.com

REQUIRED

1. Everyone must comply with any and all safety requirements set forth by Martin-Marietta.
2. Everyone is to stay away from quarry edges.
3. No climbing on rock face's.
4. Everyone must have and wear a hard-hat.
5. Everyone must have work boots with steel toe would be better.
- Note: Sorry but do not show up wearing sneakers and expect to go down into the quarry.
6. Everyone must have safety goggles or glasses.
7. Everyone must sign in at the quarry office.

EXTRA STUFF:

1. Feel free to bring buckets, picks, hammers, shovel, hand cart, rags, crow bar, etc.
2. Sorry, but children under 18 yrs are not permitted per the quarry manager

3. Bring a change of clothes in case you get wet.
4. Dress according to the weather, expect it to be cold. It is always easier to take clothes off then put stuff on that you don't have.
5. Camera.
6. Magnifying glass or eye loop.
7. Food / snacks.
8. Drinking water to stay hydrated.
9. Ask for help to load your take home rocks, as we don't want to see anyone hurt their back.
10. Please be prompt as the quarry operator is coming in on his day off to host our club.
11. Be sure to thank the quarry operator upon leaving as we want to leave a good impression so as we can come back.
12. Have Fun!

As I have not ever been to this Martin Marietta quarry, I have no information as to what can be found there. As this quarry is east of the foothills of the NC Mountains I would suspect the usual quartz, calcite, pyrite, mica, garnets in chist, granite, etc.

Directions:**[Raleigh, NC](#)**

1.	From Raleigh take WADE AVE west into I-40 W.	61.58 mi
2.	Take I-85 South toward US-421/HIGH POINT/CHARLOTTE.	6.3 mi
3.	Take EXIT 126B toward GREENSBORO.	0.64 mi
4.	Merge onto JOSEPH M HUNT JR EXPY.	1.18 mi
5.	Turn RIGHT onto EDMONT RD.(If you reach PLEASANT GARDEN RD you've gone about 0.7 miles too far)	0.23 mi
6.	Take the 1st RIGHT onto LIBERTY RD.(If you reach STONYPOINTE DR you've gone a little too far)	1.02 mi
7.	3957 LIBERTY RD is on the LEFT.	0.2 mi
8.	Turn right toward N Carolina 49 N/Roxboro Rd	115 ft
9.	Turn right at N Carolina 49 N/Roxboro Rd Continue to follow N Carolina 49 N	2.4 mi
10.	Turn left at Martin Marietta Access Rd; Your destination is 0.2 miles past OLD LIBERTY PL;	0.5 mi

[Martin Marietta, 3957 Liberty Road, Greensboro, NC 27406](#)

Happy Rockin !

Tom Todaro

Tar Heel Gem & Mineral Club Field Trip Chair 919-349-9143,
caribtomt@yahoo.com

Show Chairpeople

If you are unable to make the meeting, contact these people to volunteer in their areas

Hospitality	Marion Broadway	489-7844	wirenut1@juno.com
Geode	Greg Dillon	772-3164	wygunsmoke@aol.com
Silent Auction	Becky Healy	363-3208	nchealy@bellsouth.net
Demonstration	Cyndy Hummel	779-6220	mchummel@mindspring.com
Refreshments	Nancy Holland	342-3243	intartia303@yahoo.com
Display Cases	Joe Moylan	554-3175	jmoylan1002@nc.rr.com

Hello There,

I see we have a lot of new club members. Welcome to the group. You may have heard about the annual Rock & Gem show. If not, sit back and I will tell you all about it.

The annual show at the Fairgrounds has free parking and free admission. As you enter the double set of doors of the Kerr Scott building, you approach the Hospitality booth. This area is responsible for the daily door prize tickets, grab bag sales, club membership forms, free magazines and other literature. You might even see a display from the Aurora Fossil Museum. Knowledgeable club members identify items in the grab bags and answer general questions about the show and club. This is a good place for new members to learn and share their enthusiasm for the hobby with the general public. This area also hosts different groups such as local museums.

Directly behind the Hospitality area are display cases for club members to spotlight their talents and discoveries. Minerals, fossils, silver, gold and wire wrapped jewelry, cut and polished gems, and slabs of rock that all combine to create our fascinating hobby are reflected behind glass.

As you move around the room, listen for the dulcet tones of saws cutting through hard rock. The Geode booth along the right hand wall is very popular with customers. Indeed, the same people purchase geodes year after year. One never knows what is inside each hollow or solid sphere until it is sliced open. In this area, there is a display of beautiful geodes that have been cut over the years. Knowledgeable club members operate the saws, clean, wrap and bag the geodes. Be sure to quiz them on how geodes are formed.

The Silent Auction is located on the back wall to the right. This is where children and adults alike can find treasures at bargain prices. Items such as jewelry, minerals, fossils, faceted gemstones and slabs of rock are put up for auction for an undisclosed amount of time. Each item has a paper listing the name of the item and location of origin in the case of a mineral or fossil. The bidder places their name and a dollar amount on a blank line and steps away from the bidding table. The next person places a higher bid on the next line. When time is called, the last person on the list is the lucky winner.

Along the left back wall is where our club's talent shines, literally. This is the Demonstration/Sales area where club members showcase their hobby/addiction. At any given time you will see faceting, cabbing, wire wrapping, slab

cutting, gold and silver smithing, bead stringing, gold and silver chain making, and gem tree creating. Be sure to come view our specialties and ask plenty of questions about how we do what we do.

Upstairs is where we keep the goodies to eat. Hot coffee, donuts, soft drinks and snacks can be found at differing times throughout the weekend. Club members are greatly encouraged to bring homemade tasty treats. This area is for current club members and dealers ONLY. Current nametags must be worn.

Set up for the show is Thursday night. Set up involves papering the club area tables, unloading boxes of merchandise for the Hospitality, Geode and Silent Auction areas and assembling the display cases. Club members set up their own space in the demonstration area and fill their display case on Friday morning. Remember, If you want a specific spot in the display area, you must come Friday morning and set up your items.

As you can see there are many areas that club members can participate in during the show. I hope you will join us April.

SHOW INFORMATION

Sign up to volunteer for different booth areas at the March meeting!!!!

You should wear your nametag at all times during the show. You may not be allowed entrance prior to show hours without your 2011 nametag.

Set-up time is between 5 & 6 PM on Thursday, March 31st at the fairgrounds, Kerr Scott building. Tables and chairs should already be in place. Expect to paper tables for each club booth area; Silent Auction, Geode, Hospitality, Demonstration and Display Case Tables and haul boxes and assemble display cases. We are usually finished by 9PM. The more helping hands we have, the sooner we can finish! Friday morning each club booth area will remove items from boxes and organize the areas to their preference. The dealers set-up early Friday morning about 8AM. Club members also set up their own demonstration/sales area and display case on Friday. Donuts and coffee will be available all three mornings. Dealer dinner is 4PM-6PM on Friday. This is for dealers and club members currently volunteering at the show. Lunch is provided on Saturday & Sunday for club members who are currently volunteering at the show, no dealers. The

purpose of these meals is to feed our own volunteers who work all day so they need not worry about their meals. Water, soda, coffee and tea will be provided for both dealers and club members throughout the three-day period. Sunday evening is pack-up and takedown for dealers and the club. Display cases are disassembled and wrapped in the table paper. Each booth inventories and boxes their

items. Everything is then carefully placed in the storage trailer.

Show hours for customers are -

Friday, April 1st 5PM – 9PM

Saturday, April 2nd 10AM – 6PM

Sunday, April 3rd 10AM – 5PM

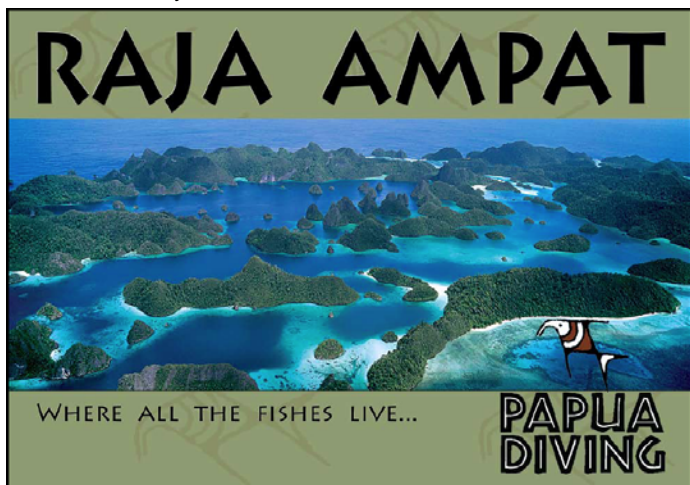
Remember, ENJOY the show. This is a rewarding and exciting time!!!

UPCOMING SHOWS

Mar 11-13, 2011: Augusta, GA - Aiken Gem, Mineral & Fossil Society. 23rd Annual Aiken-Augusta Gem, Mineral and Fossil Show, Julian Smith Casino, 2200 Broad St. Hours: Fri & Sat 10am-7pm, Sun 10am-4 pm. Admission: \$3 Adult, children under 16 FREE with an adult. Contact: www.aikengmfs.org or www.augustagemandmineralsociety.org.

Mar 12, 2011: Bartow, FL-Imperial Bone Valley Gem, Mineral, and Fossil Society. Polk County Extension Service Building, Highway 17 S. Contact Cindy at 863-255-5256.

June 17-19, 2011: Asheville, NC - Southern Appalachian Mineral Society. Asheville Gem Fest 2011, Pack Place, 2 South Pack Square (Downtown Asheville). Hours: Fri & Sat 10 AM - 6 PM, Sun 12 noon - 5 PM. Free admission, minerals, gems, jewelry, fossils, kids' activities, silent auction, door prizes. Contact (828) 254-7162 or www.colburnmuseum.org



Pictures from February's Meeting Program: Pearl Diving

Vugsites

The following are some links to Web-Sites that may interest some of our members:

<http://www.amfed.org/> / <http://www.amfed.org/sfms> These are the official sites for the organizing body that the Tar Heel Gem & Mineral Club is founded under. I would strongly urge all members to check them out on a regular basis.

http://www.amfed.org/sfms/lodestar_newsletter.html The SFMS Lodestar Newsletter

<http://www.carolinageologicalsociety.org/CGS/Home.html> This site provides numerous downloadable field-trip guide books, maps, and charts of the Carolinas. It will prove to keep any avid rock hound busy for years. Great Site!

http://www.ncminerals.com/ncmineralswebsite_files/page0011.htm And while we are on the subject, try this link. Its titled: Links of Interest to Rock hounds in NC; It will take you to a list of links for North Carolina gems and minerals.

<http://www.rocksforkids.com/> Just like the name says, A nice place to steer the younger members.

information & photographs of over 6300 specimens from the Glenn & Martha Vargas Gem & Mineral Collection.

<http://www.rockhoundlounge.com> Scott Laborde, a club member maintains his own web site that might be of interest to people collecting in and around Wake County.

http://www.msnbc.msn.com/id/29726500/ns/technology_and_science-science This site highlights a half dozen of the most recent significant fossil finds.

<http://appmodo.com/13971/mole-quest-for-the-terracore-gem-app-review-for-the-iphone-and-ipod-touch/> If you have an iphone or an ipod touch, this rock-hounding may be the game for you.

I would like to encourage all members of the THG&MC that maintain their own presence on the internet to send me a link to their site to be published in future Vugsites so that other club members may learn and enjoy the craft, the art, the interests that many of us have in common.

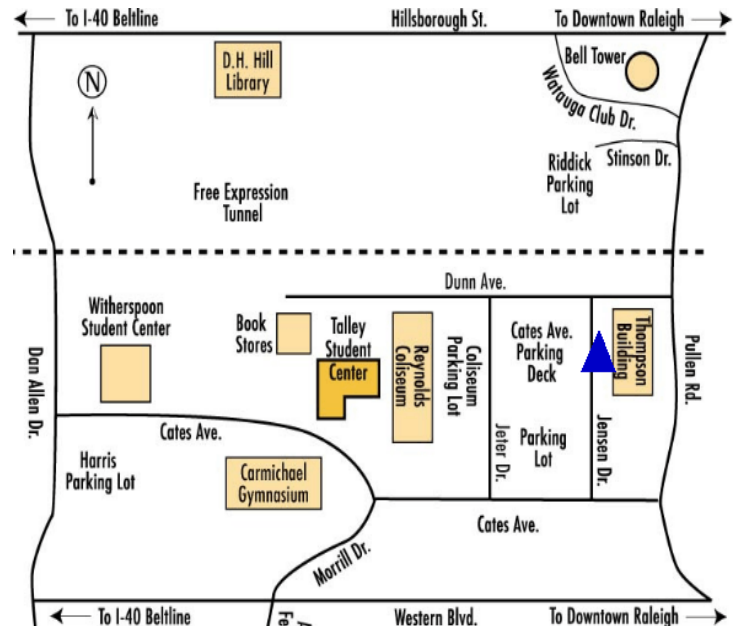
Park in the Cates Ave. Parking Deck off Jensen Dr. Enter Thompson Building directly across from the parking lot.

Our Next Meeting is March 15, 2010 @ 7:30PM Thompson Building / NCSU Campus.

About Our Organization...

The Tar Heel Gem and Mineral Club was formed in 1974 as a nonprofit educational organization for people who enjoy the lapidary arts, earth sciences, and related subjects. The main objectives of the club are to investigate, preserve, and share knowledge of rocks, minerals, and precious stones, and to promote interest in mineralogy, paleontology, earth sciences, and lapidary techniques, among club members and among the general public. The club pursues these goals through publications, meetings, lectures, field trips, exhibits, demonstrations, and other activities.

Come and be a part of the Fun!



TAR HEEL GEM & MINERAL CLUB
10609 Chelsea Drive
Raleigh, NC 27603

