

Tar Heel Tailings

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

Special Interest Articles:

- Prez Sez
- Poland, Maine Mining Camp
- Door Prize Article - Apophyllite

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Prez Sez By Cindy Hummel

Welcome to the September meeting and hear about collecting tourmaline via the Poland mining camps in Maine by Dan Cathey.

Now that the old website has been updated, the Board will be looking at possible platforms for the new design.

We need a refreshment volunteer if we want to munch on snacks. Please contact me to sign up. Remember, you will be reimbursed up to \$75 with receipts.

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Poland, Maine Mining Camp

By Duncan Pay

The 2015 Maine pegmatite workshop took place at the Poland mining camp, May 29–June 6. As readers know, many important colored gemstones including tourmaline, beryl, topaz, garnet, quartz, and spodumene are mined worldwide from pegmatites, and these rocks are the source for most fine gem crystals. Maine pegmatites have been mined for many decades (some back as far as the 1820s) and are renowned for their fine tourmaline, beryl, and quartz crystals. The workshop's website is at pegworkshop.com.

The workshop is conducted by Dr. William "Skip" Simmons, Dr.

Karen Webber, and Alexander Falster—all formerly of the University of New Orleans—and Ray Sprague, a local pegmatite miner. Simmons, Weber, and Falster were the core of the university's mineralogy, petrology, and pegmatology ("MP2") research group. Following the closure of the university's mineralogy

department, they relocated to the new Maine Mineral and Gem Museum in Bethel (www.mainemineralgemmuseum.org).

The workshop has taken place annually since 2001. The 2015 workshop had a total of 26 attendees, including six undergraduate

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Tar Heel Gem & Mineral Club, Inc.

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We're on the Web!
See us at:
www.tarheelclub.org

Program & Refreshments

<u>REFRESHMENT SCHEDULE:</u>	
Coordinator: Need Volunteer	
September	TBD
<u>PROGRAM SCHEDULE:</u>	
September	Dan Cathey, Poland Mining Camp, Maine
October	Gary McCutchen, Filing a Claim, How to Get Your Own Mine, grab bags
November	Elections/Movie: Mount St. Helens

Remember, the club will reimburse you for up to \$75 (bring your receipts to the treasurer).

September Treasurer's Report

Treasurer has no report.

September B-Day Members

- James M. Adams
- Jim Bilau
- Jamie Bottomley
- Eileen Breckstein
- Brian Edwards
- Mike Franklin
- Evan Hamilt n
- Mary Harbison
- George Harris
- Pat Jackson
- Randy Jones
- Dawn B. Langley
- Zoran Locki
- Gary McCutchen
- David Niederkorn
- Karen Santala
- Linda Searcy
- Suzanne Spencer
- Collin Taylor



Membership applications may be mailed to:

Tar Heel Gem & Mineral Club, Inc.
Attention: Treasurer
10609 Chelsea Drive
Raleigh, NC 27603

Tar Heel Gem and Mineral Club, Inc. - August Meeting Minutes

Tuesday, August 18th, 2015

Attendees =14

Opening of Club Meeting:

Meeting was called to order by Cyndy at 7:45.

New Business:

One new visitor, Fletcher MacDonald, came tonight. Rock hounding for him is kind of a family tradition. He visited mines in the 60s, owned a jewelry business, and now has an online rock and mineral business.

We decided to eat ice cream first so it wouldn't melt. Our small but valiant group ate our fill of ice cream and was treated to some Paw Paws from Cyndi's own tree. The Paw Paw is the largest edible fruit indigenous to the United States.

Re-Opening of Club Meeting:

Meeting reopened at 8:13

Old Business:

Melissa Whitfield has updated a lot of the website. It's still in work but officers and newsletters are up to date. We are going to try and transition to Word Press which is easier, so that anyone can make updates.

Working on colors for T shirts. There are 7 choices, and we're looking for larger samples for everyone to see.

Bob Bendelow and Calvin Nichols, a machinist, made some brass dops for faceting. 6.2mm (1/4 inch and some 4mm). They are about half the price of what they cost everywhere else. If you are a member, they are only \$2. See Bob Bendelow for more details.

There are two field trips in September. The 12th is an abandoned quarry where they have petrified wood, no special safety gear required. It's in Erwin, near Dunn

Martin Marietta quarries are only available on Fridays now.

Contact Maureen Mercer for a Fayetteville Club trip to the Gardner quarry for great Fluorite, Galena, and more on Saturday, the 23rd.

MAGMA has great trips if you are a member.

Refreshments:

Volunteers needed.

More New Business:

Gerald Beck noted that his name was wrong in the July newsletter. His name is Gerald Beck not Gerald Cook.

Prez Sez

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If anyone has any design ideas for the club t-shirt, bring those to the meeting.

Remember and think about possibly stepping up and becoming the chair or co-chair of the Hospitality area at the show. All information is already written down and Marion will be on hand to help guide the incoming person.

There is an opening for the show next year. A chairperson is needed for Hospitality. Two co-chairs can also serve. The position(s) require a commitment for a large part of the show. There are instructions provided by the previous Hospitality chairperson. This position is critical for the show next year.

Program:

We moved on to show and tell at 8:26

We saw some interesting specimens including some very nice amethyst crystals that George brought.

Door Prize:

We closed with the drawing for the door prize and Julie Neiderkorn won. She chose a very nice Apophyllite specimen.



Close of Meeting:

The meeting was adjourned.
Respectfully Submitted
Walt Milowic,
Secretary, Tar Heel Gem and Mineral Club, Inc.

Be sure to wear your name tag for identification purposes.

See you soon,
Cyndy Hummel
President,
Tar Heel Gem and Mineral Club, Inc.

Field Trip Information

By Shirley Green

Senter Quarry Field Trip

When:

Saturday, September 12, 2015, 8:20 am until. (They close at 5:00 pm). We must arrive at the quarry no later than 8:15am. for for the safety briefing. No Latecomers!! DO NOT ARRIVE LATE IF YOU WISH TO PARTICIPATE.

Where:

1245 Becker Rd., Lillington, NC

Collecting:

According to what I have been told, you can find petrified wood in this nonoperational quarry. There may be other fossils also.

Requirements:

- No safety equipment required!

Tools:

- Sunscreen
- Bug spray - not sure if we will need or not
- Rock hammer
- 3 pound hammer or sledgehammer
- Backpack or bucket or both
- Newspaper to wrap your specimens in
- Plenty of fluids to drink
- Snacks
- Chisel or pry bar
- Long screwdriver
- Hand truck

Who:

Please RSVP to Shirley. 919-848-1085 or Richard60Green@yahoo.com

Directions:

1245 Becker Rd., Lillington, NC

Poland, Maine Mining Camp

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mineralogy students from University of New Orleans, one postgraduate mineralogy student from the University of the Basque Country (Bilbao, Spain), a well-known mineral dealer, a variety of mineral collectors, and interested members of the public.

The workshop is structured with morning presentations and lectures, followed by excursions to mines and quarries in the afternoon. Given the breadth of participants (rockhounds from mineral clubs, undergraduate and graduate geology students, mineral dealers, gemologists, and PhD-level researchers), the content varied from introductory to quite complex—and sometimes contentious— topics, such as pegmatite genesis (fractional crystallization from granite vs. anatexis) and crystallization time. In particular, the relationship of pegmatites to tectonic settings was well explored, as was the current consensus on cooling time and the formation of large crystals. Nonetheless, the presenters did an excellent job and encouraged plenty of debate. Some of the best questions came from the mineral collectors in the group, many of whom have visited these quarries repeatedly.

The selection of field excursions (figures 1 and 2) varies from year to year and is dependent on which mines are available or being worked at the time. This year's destinations included the following quarries: Western Mount Apatite, Tamminen, Waisanen, Bennett, Orchard, Havey, Mount Mica, and Emmons. Around noon each day, participants would caravan in a stream of cars to the "quarry du jour." The workshop organizers enjoy excellent relationships with local mine owners, dependent on the good conduct of the attendees.

At each quarry, Simmons or Falster explained pegmatite mineralogy and miners Frank Perham or Ray Sprague outlined current or past mining history at the site. The remainder of the time could be spent mineral collecting, which was a focus for a good portion of the group. Those interested in more depth could talk with members of the MP2 research group about the exposures, or with

Perham and Sprague about the practice of mining pegmatites. Indeed, this is the workshop's strong suit: The theory from the morning presentations is applied to real rocks in the afternoon.



Colorful mineralogy at the Havey quarry. Pink and green tourmaline, cleveandite, lepidolite, and "salmon"-colored feldspar all indicate the presence of a nearby pocket. Photo by Duncan Pay/GIA.

Besides the quarries, workshop attendees also visited the new Maine Mineral and Gem Museum in Bethel. There they could see the progress of the exhibits and view the MP2 research group's laboratory in the basement, which includes an electron microprobe, scanning electron microscope, X-ray diffraction equipment, and other advanced instrumentation.

Following an evening lecture on pegmatite mineralogy complemented by numerous hand specimens, the opening session kicked off with a general introduction to pegmatites, the earth's chemistry, and phase equilibria. Throughout the week, the presentations delivered by Simmons, Webber, and Falster built on the basics to cover the relationship of granites to pegmatites, magmatic differentiation, pegmatite classification, magma genesis, and the influence of tectonic setting. Some of the more complex

topics covered included crystallization dynamics, such as the influence of volatiles and fluxes (water, lithium, fluorine, boron, and phosphorous), pegmatite textures, aplites ("line rocks"), pocket formation and indicators, and regional and internal zonation of pegmatites.

Besides these instructional sessions, workshop attendees were also treated to a variety of other presentations, including:

Myles Fetch (Maine Mineral and Gem Museum, Bethel) described the garnet line in Oxford County pegmatites. He explained that the garnet line marks the lower edge of the pegmatite's productive zone. It might swell upward close to a pocket, serving as an important indicator.

Dr. Encar Roda-Robles (University of the Basque Country and a member of the MP2 pegmatite research group) presented on pegmatites from the Iberian Massif and the central Maine belt, covering the differentiation of granitic melts vs. anatexis. Dr. Roda-Robles also delivered a talk on tourmaline, mica, and garnet as sensitive indicators of pegmatite evolution in the Berry-Havey pegmatite. This last talk was very relevant, as the afternoon's field trip was to this quarry.

Idoia Garante-Olave (University of the Basque Country) delivered a presentation on mineralogy and geochemistry of micas from the Tres Arroyos pegmatite field in Badajoz, Spain.

Frank Perham, a noted Maine pegmatite miner, reminisced on the remarkable Newry tourmaline discovery,

Apophyllite

By Julie Niederkorn

I was super excited to win the door prize at the August meeting! I chose the beautiful Apophyllite with Stilbite crystal cluster from India. It is so beautiful with it's light aqua green color and it cubed shaped crystals.

Here is some information on the apophyllite from Wikipedia

The name **apophyllite** refers to a specific group of phyllosilicates, a class of minerals. Originally, the group name referred to a specific mineral, but was redefined in 1978 to stand for a class of minerals of similar chemical makeup that comprise a solid solution series, and includes the members apophyllite-(KF), apophyllite-(KOH), and apophyllite-(NaF). The name apophyllite is derived from the Greek ἀπόφυλλίζο *apophylliso*, meaning "it flakes off", a reference to this class's tendency to flake apart when heated, due to water loss. These minerals are typically found as secondary minerals in vesicles in basalt or other volcanic rocks. A recent change in the nomenclature system used for this group was approved by the International Mineralogical Association, removing the prefixes from the species names and using suffixes to designate the species.

Here is some information from Healing Crystals.com

which produced an estimated \$30 million worth of gem and specimen-grade tourmaline crystals in 1972. Perham also delivered a talk on Maine feldspar mining.

Dr. Skip Simmons presented previous work on the chemistry and a calculation of volume, by mineral, for the Mt. Mica pegmatite. The volume of tourmaline was estimated at 1%.

Jim Nizamoff (a mineralogist with Omya AG and former University of New Orleans research associate) and mineral collector Don Dallaire discussed the pegmatite mineralogy of the Conway and Osceola granites from the White Mountains of New Hampshire.

Ray Sprague (pegmatite workshop organizer and miner) presented on the mineralogy of specimens from the Emmons pegmatite in preparation for the all-day visit to that quarry.

Additional Resources:

Maine Pegmatite Workshop:

<http://www.gia.edu/gems-gemology/summer-2015-gemnews-maine-pegmatite-workshop>

The Poland Mining Camps:

<http://www.mindat.org/article.php/1898/20.+The+Poland+Mining+Camps>

Poland Mining Camps, Maine, Pegmatite:

<http://rockhoundblog.com/rockhound-travel/poland-mining-camps-maine-pegmatite/>

Green Apophyllite cleanses and balances the Heart Chakra energy. It can bring clarity to decisions and situations of the heart by allowing the holder to see all sides of the issue, untainted by fear or ego. Green Apophyllite can assist in the "letting go" of issues that no longer serve and allow the act of forgiveness and healing. It will balance the emotions with a gentle, loving energy and enhance spiritual growth.

Green Apophyllite helps remove toxins from the body, whether physical or emotional, and aids in the recovery from illness. Use Green Apophyllite when creating any type of healing environment. Green Apophyllite can also be used to connect with the energies of Mother Earth and nature. It opens a psychic channel, which can be used for communications with plant, animal, fairy and elemental energy. Use Green Apophyllite when working with Earth healing.

Physically, Green Apophyllite aids in degenerative disease and diseases of the tissues. It helps to remove toxins from the body, be it physical or emotional and aids in the recovery from illness. Use Green Apophyllite when creating any type of healing environment.

Jacksonville Gem & Mineral Society
27th Annual Gem & Mineral Show & Sale
 gem, mineral, jewelry, fossil, bead
Morocco Temple
 3800 St. Johns Bluff Road South
 Jacksonville, Florida 32224
 September 25, 26 & 27
 Friday 10-7, Sat 10-7, Sun 10-5

Continuous Jewelry and Lapidary demonstrations. Special exhibits and Dr. Reynolds and NASA Moon Rock

\$3 each day or \$5 for all three days. JGMS is a not for Profit Organization. Children under 12 free with guardian. \$1 off for Seniors and Military with ID.

FREE admission for SFMS Clubs with this flyer

2nd ANNUAL HIDDENITE GEM, MINERAL AND FOSSIL SHOW AND DIG
 Free Admission
 Hosted by the Mountain Area Gem and Mineral Association
 September 25th - 27th 2015
 Friday and Saturday - 9 am to 6 pm
 Sunday - 9 am to 5 pm

Featuring top vendors with gems, minerals and fossils from North Carolina and around the world.
SHARPES EMERALD PROSPECT DIG
 (1/2 mile from show)
 Friday and Saturday - 8 am to 5 pm
 Fee: \$25 per person, per day
 Children 12 and under free

Hiddenite Education Center
 Hiddenite, North Carolina

From the US 64 Bypass East in Taylorsville, turn left onto Old Mountain Road in Hiddenite. Go straight across intersection with flashing light, cross railroad tracks. The Hiddenite Education Center is on the right.

From I-40, take the Hwy. 64 West exit to Hiddenite, turn right onto Old Mountain Road.
RICK JACQUOT (828) 779-4501 rick@wncrocks.com

UPCOMING SHOWS

September 11-13, 2014: Winston-Salem, NC - 43rd Annual FGMC Jewelry, Gem, Mineral, and Fossil Show and Sale, Sponsored by the Forsyth Gem and Mineral Club. Education Building, Dixie Classic Fairgrounds in Winston-Salem, NC. Hours: Friday/Saturday, September 11-12: 10 AM to 7 PM, Sunday, September 13: Noon to 5 PM. This year's theme: The Beauty of Lead Minerals, Special presentation on North Carolina Meteorites at 2 PM and Saturday, September 6, by John Sinclair, Curator of Meteorites at the Pisgah Astronomical Research Institute. Exhibits and displays featuring: Jewelry, Fossils, Minerals, Gemstones, Decorator Items. Geode sales - free cutting with geode purchases. Grab bags. Gold Panning. Demonstrations featuring: Wirewrapping, Gold Panning, Cabochon Cutting, Geode Cutting. Dealers Featuring: Minerals, faceting rough, supplies, fossils, jewelry, beads, beading supplies, decorator items. Adult tickets include hourly drawings for \$20.00 gift certificate. Admission: Adults - \$2.00, children through grade 12 - free with accompanying adult. Free parking - enter through Gate 9 on 27th Street. Contact information: Club website:

www.forsythgemclub.com

September 25 - 27, 2015: Jacksonville, FL - The Jacksonville Gem And Mineral Societies 27th Annual Show And Sale; 1st Annual Florida Faceters Frolic, Hosted by the Tomoka Faceters Guild. Morocco Temple, 3800 St. Johns Bluff Road South, Jacksonville, Florida 32224. Hours: Fri: 10 AM-7PM; Sat: 10AM-7PM; Sun: 10AM-5PM. 60 Dealers from around the country, Hourly door prizes, 5 Grand Prize Drawings, Moon rock display on loan from NASA made possible by Dr. Mike Reynolds. Club Hospitality table, 20+ Club competition display cases. Special faceting. Lectures from noted Faceters. Major faceting equipment dealers and National. Tool and equipment dealers will be represented. Special Large lapidary demos daily. Continuous Educational exhibits on Silversmithing, Cold Connections, Faceting, Cabbings, Beading, Gem trees and more. Junior's booth, Gem ID and more. Admission is Free with the attached flyer. Contact information: Jason Hamilton, 2015 JGMS Show Chair: JGMS-SHOW@hotmail.com

October 2 – 4, 2015: Dallas, NC - 37th Annual Gaston Gem & Mineral Show. Gaston County Park, 1303 Dallas Cherryville Hwy, Dallas NC. 28034 (HWY 279); or GPS 120 Leisure Lane, Dallas, NC 28034. Hours: Fri & Sat, 9am - 6pm - Sunday 9am - 5pm. Minerals and Fossils from around the world. Cutting material, Quality Gemstones, Wire wrapping, settings, Geodes, Jewelry, etc. SLUICE - A real working sluice, \$3 & \$5 sand buckets; perfect for children and adults. Amethyst, Quartz Crystals, Faceted Stones mixed at random in buckets; you must might get that special stone or treasure! Hourly Raffles for Prizes, not just a jewelry show, FUN FOR ALL! FREE ADMITTANCE and FREE PARKING. Contact information: Show Chairman, Rick Perkins, at 704-915-8366. Club website: <http://gastongemclub.weebly.com/>

November 20 - 22, 2015: Columbia, SC - The Columbia, SC Gem & Mineral Society will hold its 47th Annual Gem, Mineral, & Jewelry Show. Jamil Temple, 206 Jamil Rd. (Exit 106A off I -26), Columbia, South Carolina 29210. Hours: Friday November 20, 10:00 - 6:00. Saturday November 21, 10:00 - 6:00. Sunday November 22, 12:00 - 5:00. Jewelry, beads, loose stones, fossils, minerals, gold, silver, & tools for sale. Geodes sold & cut. Club member's rock collections on exhibit & lapidary demonstrations. South Carolina amethyst on display. Admission is \$5.00 for adults, children sixteen & under are free with adult. All military & their dependants are free. Contact information: Sue Shrader...Publicity...803-736-9317 ashrader@mindspring.com Club website: www.cgams.org

November 27 - 29, 2015: Salem, VA - 36th Annual Roanoke Valley Mineral & Gem Society Show. Salem Civic Center, 1001 Boulevard, Salem, VA 24153. Hours: Friday, Nov 27, 2015 - 2pm to 7pm. Saturday, Nov 28, 2015 - 10am to 6pm. Sunday, Nov 29, 2015 - Noon to 5pm. Hobby related exhibitors, Fluorescent Mineral Display, Club member displays, Geode Cutting. Door prizes drawn hourly. Grand Prize drawn 4:30pm Sunday. Admission \$4, ticket good for all three days. Children under age 16 free. Free Parking. Contact information: CKWLT@aol.com.

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.

http://diamonddanpublications.net/index_files/page0009.html Diamond Dan's Mini Miner's Monthly

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.

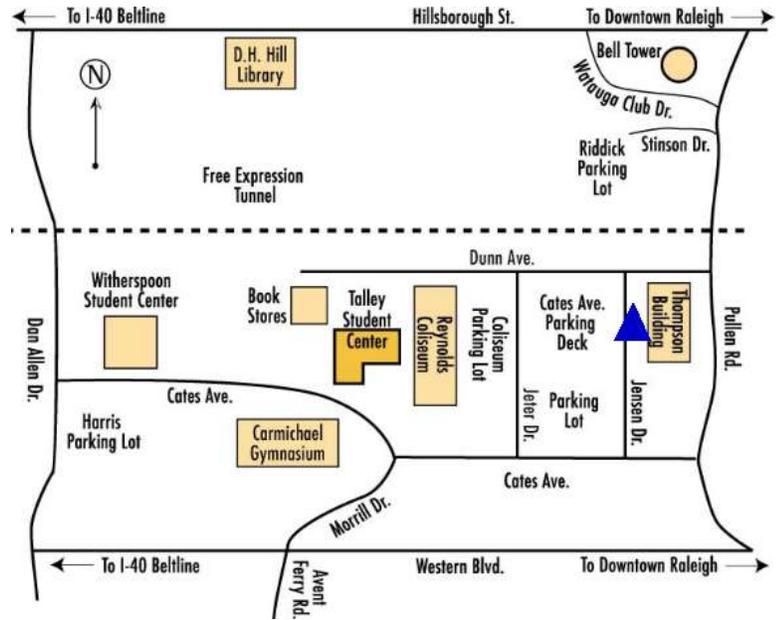
Park in the Cates Ave. Parking Deck off Jensen Dr. Enter Thompson Building directly across from the parking lot.

**Our Next Meeting is
September 15, 2015 @ 7:30PM
Thompson Building / NCSU Campus.**

About Our Organization...

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

Come and be a part of the Fun!



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

