

TAR HEEL



ROCKHOUND

AUGUST 2011

CATAWBA VALLEY GEM & MINERAL CLUB, INC.

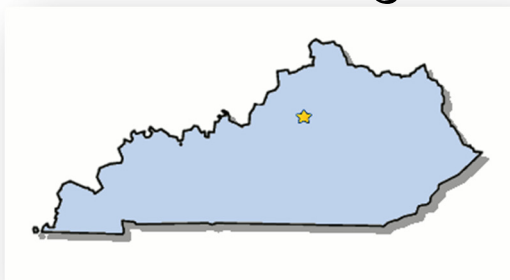
2011 OFFICERS AND COMMITTEES

President:	Baxter Leonard 828-320-4028	Editor:	Velda McLean 828-750-4803	Show Chairmen:	George Max 828-328-9107
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Secretary:	Dean Russell 828-330-0034				

Club Address: PO Box 2521, Hickory, NC 28603-2521
Regular Meetings: Second Tuesday, 7:00 PM
St Aloysius Catholic Church
921 2nd St NE Hickory, NC
Annual Dues: Family, \$18; Individual, \$12; Junior, \$6

The purpose of the Club is to increase the individual's knowledge of the earth sciences and to aid in the development of lapidary and related arts and skills; to promote fellowship and exchange of ideas; to hold exhibitions, contests, lectures and demonstrations for educational purposes; to help interest more people in the gem and mineral hobby; and to capture and preserve the beauty of nature, the arts, and the works of man.

Getting Ready for Kentucky



KENTUCKY LABOR DAY FIELD TRIP

Harry Polly will be doing a program at our August meeting on *Geodes of Kentucky*.

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PRESIDENT'S MESSAGE

Baxter Leonard, Club President

August has traditionally been a month that to me usually means "too hot for collecting", and "stay inside as much as possible". However, it's a good time to perform maintenance on tools used in our hobby, and to ensure the necessary collecting items are in order for the fall. Also, catching up on reading and study of minerals can be a nice diversion to the hot weather.

There are several upcoming mineral shows in this area that are either indoor or outdoor. If members have an opportunity to attend any of these shows, not only will your exposure and knowledge increase within the hobby, but you may find that one specific item to complete a "blank spot" in your collection.

I hope everyone's August is fulfilling and educational as much as possible.

Baxter Leonard



AUGUST FIELD TRIP

Harry Polly, Field Trip Coordinator

The August field trip will be held on August 13th. We will be going to the Presnell Kyanite mine. We are going to get there yet. We have planned this several times and it has fallen through at the last minute. We will meet at the waffle house in Morganton (exit 100) at 8:00 am. You will need crack hammer, chisel, digging tools, bucket, food, water, and raingear.



CATAWBA VALLEY GEM AND MINERAL CLUB, INC. Minutes, July 12, 2011

The meeting of the CVGMC was called to order by President Baxter Leonard at 7:00 PM. There were 30 members and guests present. The minutes of the May 2011 meeting were read and were then approved by the Club.

Treasurer Report:

- 1) Zan Ritchie reported that the checkbook and savings balance was \$12,379.66.
- 2) 2011 Show net profit - \$2695.59
2010 Show net profit - \$6452.71
Hickory Metro Convention Center cost:
2011 - \$6456.95
2010 - \$4811.93

It was recommended that at the next meeting the Club discusses the disparity of costs.

Field Trip Report: None

Show Committee: None

Education Committee: None

Unfinished Business: None

New Business: None

Closing of Business: The meeting adjourned at 8:30 PM.

Program: Stump the Experts

Respectfully submitted,
Dean Russell, Secretary

AUGUST PROGRAM

Lloyd Hoke, Program Director

Harry Polly will be doing a program at our August meeting on:



THE GEODES OF KENTUCKY

We hope this might spur more interest in the Kentucky Trip.

Lloyd Hoke

GRASSY CREEK SHOW IN SPRUCE PINE

Eric Fritz

I will again be selling minerals at the Grassy Creek Show in Spruce Pine this year. I have pulled duplicates from my North Carolina collection as well as some consignment materials again. There will be Hiddenite material identified to the specific mines as well as nice Reel Mine Amethyst. This will probably be my last year selling at the show. The dates are **July 31 thru August 7th**. Hope to see you there.

Eric

ERIC FRITZ
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Spruce Pine

Spruce Pine is not known as "The Mineral City" for nothing! Gems, minerals, and mining of all kinds are a major part of the town's economy and culture. From the annual North Carolina Mineral and Gem Festival to find-them-yourself gem mines, Spruce Pine is a rockhound's dream

FESTIVAL SEASON

Each year Spruce Pine hosts the **North Carolina Mineral and Gem Festival** during the last week of July into the first week of August. Gem and mineral vendors from across the country converge on the town and fill the Pinebridge Coliseum with more rocks than you can see in just one day. It is a rare year that I do not purchase something unusual at the festival, and I've been going for 30 years!

There is also a special vendor-only show held at the Pinebridge Inn (next door); [contact the festival](#) for vendor requirements and details.

The 2011 festival will be 54th annual festival, and will be held **August 4 until August 7, 2011**, at Pinebridge Center. Pinebridge Center is enclosed, so the festival is indoors. You can see images from previous festivals here on SprucePine.com in our [festival images](#) section. The festival has it's own website now at www.ncgemfest.com.

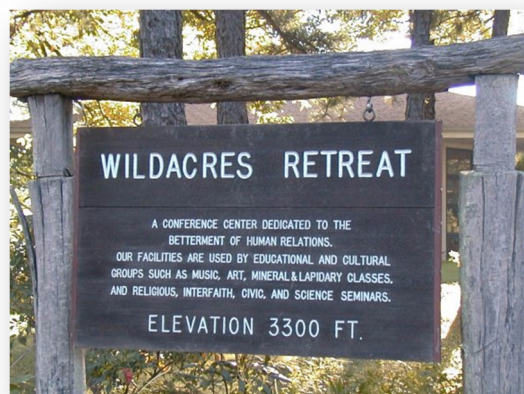
Also each year, running concurrently with the Mineral and Gem Festival is the **Grassy Creek Gem Show**. The Grassy Creek Gem Show is outdoors at Parkway Fire Department (in the Grassy Creek area of Spruce Pine), and has almost as many vendors as the Mineral and Gem Festival. The Gem Show runs all week (**the Gem Show starts July 31 and ends August 7 in 2011**). Gems, minerals, jewelry, and other items of interest to rockhounds are all for sale. And they have great barbecue too! Spruce Pine in late July can be hot (although not always), so dress appropriately for an outdoor event.

EMERALD MATRIX SPECIMEN



Terry Ledford, at one time, was part owner of the old Crabtree mine outside of Spruce Pine, NC. Here is the best emerald matrix specimen that Terry ever retrieved from his mine.

THERE IS SUCH A PLACE AND IT'S CALLED *WILDACRES*



One of the benefits of belonging to an Eastern Federation club is the opportunity to attend the two federation-sponsored Workshops at Wildacres!

Imagine being able to spend a week totally immersed in the joys of our hobby - no interruptions from television, news, traffic, or worries. The setting is an idyllic mountain top retreat where you are well fed and cared for and you can take classes in many aspects of the hobby - lapidary, jewelry making, mineralogy, etc.

What are the Requirements and Costs?

Workshop attendance is open to any active member of a Club or Society that is a member of the Eastern Federation. Individuals from the other Federations may attend on a space-available basis.

All registration forms **MUST** have 4 class choices listed, in the order of preference. Enrollees will be placed in the classes, as registration forms are received and once a class is full, the next chosen class with openings will be assigned.

Fees for the 2011 sessions of Wildacres are \$350 per person. This fee includes room, board and classroom instruction. Most classes will also charge a nominal fee to cover materials and supplies. Once the week is over, you'll be able to take your completed projects home with you.

The week at Wildacres is divided into two parts or "semesters". Students take one class lasting either the full week (4-days) or two different classes lasting 2-days each. The day between "semesters" is a day set aside to

allow participants to explore the region, participate in an old-fashioned tailgate session and relax.

Each Wildacres Workshop also features an expert in residence who gives daily talks about a variety of topics in his field of interest. The spring session (April) speaker will be Dr. Gene LeBerge, award-winning Univ. of Wisconsin professor of geology and mineralogy, consummate teacher, and distinguished author. Gene will enthrall us all with his tales and photographs - from tourmaline to copper to Namibia and Brazil. For the fall session (September), we're pleased to welcome back Dr. Steve Chamberlain, Chairman of the Rochester Mineralogical Symposium. Steve's a multi-talented fellow who has a passion for minerals - especially those of NY State, host as, field trips, opera and more. These experts live on campus, often attend classes and interact with Workshop participants throughout the session.

*For questions or further information, please contact **Fran Sick**, EFMLS Wildacres Director at ednfran@epix.net*

<http://www.amfed.org/efmls/>

WILDACRES FALL CLASSES – September 5 – 11, 2011 – Speaker in Residence - Dr. Steve Chamberlain

Class & Instructor	Description
Cabochons - Basic Al DeMilo	Hands-on instruction will be given to show how to transform a rough piece into a shiny, well-formed cabochon with no flat spots. The use of a trim saw as well as techniques to grind, sand and polish the stone into a standard size and shape will be covered. Slabs will be provided, but you may use your own with instructor's approval. 2-day class offered 1st semester. No prior experience necessary.
Cabochons - Intermediate Al DeMilo	This course is an extension of already learned skills. It will focus on the crafting of cabochons of difficult shapes and sizes. Much one-to-one attention will be given. Slabs will be provided, but you may use your own with instructor's approval. 2-day class offered 2nd semester. Pre-requisite: Students must know how to use the trim saw, dop a stone and use a grinding, sanding and polishing machine.
Chainmaille - Basic Roger Campbell	Learn the ancient art of chainmaille using non-soldered copper jump rings. Students will learn different weaves while completing class projects. All tools will be provided. An Optivisor or other magnification would be helpful. 2-day class offered 1st semester. No prior experience necessary.
Chainmaille - Continued Roger Campbell	The 2nd semester class will be a short review of chainmaille and students will learn additional weaves. All tools will be provided. An Optivisor or other magnification would be helpful. 2-day class offered 2nd semester. No prior experience necessary.
Cold Connections - A Riveting Experience Pat Baker	Students will learn to make jewelry with cold connections, no soldering required. Materials with which we will work include silver, copper, bronze, brass and found objects/alternative materials. Students will learn how to create texture with hammers, stamps and the rolling mill; riveting and tube riveting and forming with a dapping punch and block. All students should bring Optivisors. 2-day class offered 1st semester. No prior experience needed.
Working with Reactive Metals; Anodizing Titanium & Niobium Pat Baker	Add amazing color to your jewelry! Titanium and Niobium, while gray in their natural state, can be treated by heat and/or electricity to create beautiful colors on the surface of the metal. We will make many samples with both metals using wire and sheet, discuss the limitations (these metals cannot be soldered) and the benefits. 2-day class offered 2nd semester. No prior experience needed.
Faceting Reivan Zeleznik	Students will learn to cut and polish a 57-facet round brilliant gemstone. In addition, they will learn how to identify well-cut stones, select rough material and see whether or not they enjoy this fascinating aspect of the hobby. Students are asked to bring an Optivisor if they have one. 4-day class. No prior experience necessary.
Gem Identification B. Jay Bowman	Students will learn to use the various instruments used to identify cut gems. This will include the microscope, refractometer, spectroscopy and others. They will practice on a variety of stones provided. 4-day class. No prior experience necessary.
Polymer Clay: Making Canes and More Carolyn Stearns	Each student will learn how to make millefiori clay canes. You will begin by making blends of clay and turning them into many different canes including flowers and leaves. Once you have several canes created, you will learn to slice them tissue-paper thin and layer the slices to create clay fabric which will be used to make several different shape beads and cover different items. (If you bring your own clay, please bring Kato Polyclay. You may bring your own tools if you have them.) Kit and materials will be provided. 4-day class. No prior experience needed.
Basics of Scrimshaw Sandra Brady	Scrimshaw, a folk art dating back centuries, is a special form of engraving applied to ivory and similar materials. This course offers an excellent way to begin traditional scrimshaw. Working with a hand scribe you will learn attractive shading techniques and how to work on both natural and man-made materials. You will also learn basic composition and tool sharpening, as well as transfer methods for those who are "drawing challenged". An Optivisor or other magnification is recommended. 2-day course offered 1st semester. No prior experience needed.
Scrimshaw - Color Basics Sandra Brady	Building on the methods taught in the 1st semester, students will be introduced to color. Again, working on both natural and man-made materials, modern scrimshaw methods utilizing the beauty of color will be explored. Preservation of your artwork will be included. Please bring an Optivisor. 2-day course offered 2nd semester. Pre-requisite: Basics of Scrimshaw.
Silversmithing Lendle Hill	Students will learn the basic of soldering, fitting a stone, assembling and finishing either a ring or pendant. Starting with a piece of flat silver, students will learn to make a bezel setting, solder it to a piece of silver, and then add either a ring shank or pendant bail before finishing the piece on the buffer. 2-day class offered both semesters. No prior experience necessary.
Wirewrapped Jewelry - Basic Jacolyn Campbell	Using pliers, gold-filled or sterling wire, assorted beads or gemstones, and a few basic wirecraft techniques, learn how to create your own fashion rings, bracelets, pendants and earrings to add that perfect accent to your jewelry wardrobe or to give as gifts. Designed for beginners, students will make a variety of projects. All tools and materials are provided. 2-day class offered 1st semester. No prior experience necessary.
Wirewrapped Jewelry - Intermediate Jacolyn Campbell	Using the same techniques and materials as in the basic class, students will make more advanced projects. All tools and materials will be provided. 2-day class offered 2nd semester. Pre-requisite: Basic wirewrapping skills however, a brave new beginner could take the class.

Mystery Mineral: Who Am I?



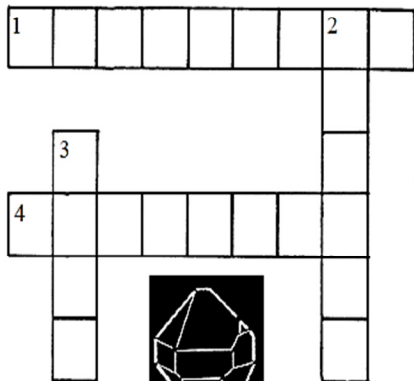
I can be reddish-yellow, brown, gray, yellow or green. I can be an ore of the element titanium. Sometimes, when I am colorful and clear, I am cut as a gemstone. I have two names. One is titanite (because I contain titanium). The other is:

Physical Properties

Minerals are identified by the combination of their physical properties. Using the hints below, identify these physical properties. Get them correct and you will be able to complete the crossword puzzle.

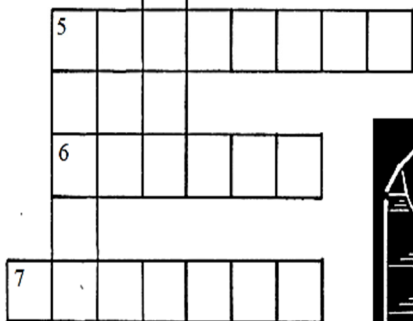
Across:

- When iron is attracted to a magnet.
- A description of when a mineral breaks creating an uneven surface.
- A description of when a mineral breaks into a flat surface or plane.
- A description of the way light bounces off of a mineral.
- A measure of the density of a mineral. Specific _____.



Down:

- The color of a mineral it is crushed to a powder.
- Mohs' _____ Scale.
- Blue, red, green, yellow, pink, orange, brown, ...



EULER'S WONDERFUL FORMULA

Here's a little something for the mathematicians out there!

Leonhard Euler was a mathematician from Switzerland. He lived from 1707 to 1783. He is famous for the many mathematical discoveries that he made in his lifetime. He proved one special theorem that mineral collectors would find interesting.



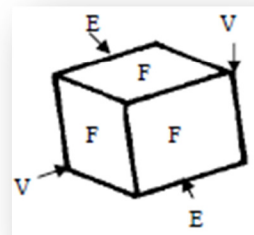
Before I tell you the theorem, you have to know the definition of the word polyhedron. A polyhedron is a three dimensional shape made up of flat faces (like crystal faces). A line (also called an edge) is formed where the faces meet each other and a point is formed where the edges meet each other. These points are called vertices.

And now, Euler's Wonderful Formula

If you add the number of faces (call them "F") of a polyhedron to the number of its vertices (call them "V") and then subtract the number of edges (call them "E"), you will **always** get the number 2.

$$F + V - E = 2$$

Take a cube, for example. A cube has 6 faces (F=6). It has 8 vertices or points (V=8). It has 12 edges (E=12). Plug the numbers into the formula and you get:



$$6 + 8 - 12 = 2 \quad \text{Hey! It Works}$$

Now, go to your mineral collection and find COMPLETE crystals. This formula only works for crystals (that is, polyhedra) that have crystal faces all around the crystal.

If you don't have "perfect" crystals in your own collection, make some! You can find an awesome set of high-quality crystal models that you can download, print out and make yourself at this website: <http://webmineral.com/help/Forms.shtml>

These will work best for you if you print them out on heavy paper or card stock.

First Class Mail



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**Club Meeting
Tuesday
August 9, 2011**

7:00 PM

**St Aloysius Catholic Church
921 2nd St NE
Hickory, NC**

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