



Rocky Reader

The Monthly Newsletter Of The
Toledo Gem And Rockhound Club

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April 2011

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GEMCRAFTER AUCTION APRIL 20th

The gemcrafter auction benefits the purchase and repair of the gemcrafter equipment. This is a live auction. If you have things to donate, please bring them to the meeting and place them on the tables that have been set up for this purpose. Donations of lapidary material, rough and equipment, specimens, etc are welcome. For the buyer, this is a great opportunity to purchase lapidary materials and neat specimens as well as used equipment to flesh out your home workshop.

PRESIDENT'S MESSAGE

Hopefully this issue will find us all eagerly enjoying a beautiful Spring! As the Program during the March meeting, we had brief presentations from all of the Satellite groups. It was very informative, and the samples provided were an impressive example of the skills of our members. We hope that all our members will take the opportunity to participate in some of these groups and take advantage of the expertise of our members as well as the facilities and equipment that we enjoy as members of this club.

As the weather improves and travel is a little easier, I urge you to pick a group and stop in at a meeting to learn a bit about any area of the club you have been curious about. We have so much to offer and we are better for the effort to share with and learn from each other. Sign up for a basic class, observe other members as they work, or stop in to talk about a facet of our hobby that you enjoy. This club is here for you, take advantage of the opportunities before you.

Our April meeting will feature our Gemcrafter Auction which is always a rousing good time for all. Come join us and take advantage of the great items available.

Jerri Heer, President

SPRING OPEN HOUSE

The spring open house will be held May 14-15. Setup will be Friday, May 13 from 6-8 pm only. Table space is currently full. You MUST contact Carla Burleson (419-533-7341) ASAP if you need to cancel, so she can fill your spot.

LOOKING FOR VOLUNTEERS

The 577 Foundation is seeking volunteers for Children's rock activities. If you are interested in helping with things such as helping kids make gem trees, etc, please contact Chet King at (419) 841-4272.

TG&RC MEETING MINUTES – February 16, 2011

President Jerri Heer called the meeting to order and began with the Pledge of Allegiance.

Secretary's Report: Moved for approval: Tom Marok. Seconded by: Kerry Myers. Motion carried.

Treasurer's Report: Moved for approval: John Capuano. Seconded by: Jacque Martindale. Motion carried.

Ruth Jacobs performed audit of the books and noted that it passed. Moved for approval: Ed Reynolds. Seconded by: Kerry Myers.

Old Business:

Still looking for keys to account for them and so far have 12 out of 26

New Business:

Program was a show-n-tell by the specialty clubs. Cab contest is still planned for May or June. Replaced the water heater in the Craft Center.

Group Reports

TBG Liaison: Plant sale in May – member who volunteer earn hours for the club.

Gemcrafters: Auction will be during the April meeting. New members must pass a first cutting prep. Cutters remember to share time on machines. Cabochon contest planned - watch the calendar.

Metalcrafters: See the Rocky Reader.

Beaders: See calendar.

Extreme Beaders: See calendar – April 5 and 22nd are all day sessions 9am – 5pm planned. Contact Kathy Peterson or Linda Markowiak to confirm these dates.

Faceteers: no report.

Faceteers II: 1st and 3rd Tuesdays; a class is planned for the end of May or June.

Juniors: Next meeting March 22nd.

Rocky Reader: Deadline is Monday of week after the meeting.

Membership: 43 members and 2 junior members

Sunshine: no report

Field Trips: Kentucky trip March 29 – April 3. New Jersey Sterling Hill and Franklin mine weekend of April 29. Bancroft trip May 18 – 22.

Show: Continuing planning with focus on radio advertising.

Respectively submitted by Secretary, Mike Mayers



Thelma Postlewaite's Family News

April Birthdays:

1	Su Drake
5	Ruth Jacobs
5	Denise Turk
9	David Hoback
9	Suzanne Shimatzki
11	Emily Smith
12	Linda Scharer
16	Michelle DeLong
16	Susan Hall
16	Linda McConahey
16	Chloe Varner
17	Brittan Tolford
18	Jessica Hofacker
19	Connie Shaw
24	Lou Ann Frey
26	Philip Riddle
27	Amy Shufeldt
29	Becky Knorek

CONGRATULATIONS!

Congratulations to Extreme Beaders Pat Snyder and Shirley Stieb, who took first and second place, respectively, for the Phantom of the Opera and Madame Butterfly pieces, in the Meant to Bead music theme beading contest. Good going ladies!!!! Thanks to all who voted!!

MEMBERS' LINKS ON CLUB WEBSITE

Just a reminder for those members who sell their craft online to submit the following information to Steve Shimatzki: (a) your name, (b) the weblink you want listed, and (c) the general category description of what you're selling. Refer to last month's Rocky Reader for more details. Send email to: sjs132@accesstoledo.com.

McCaw COMPANY OPEN HOUSE

The McCaw Company is happy to announce their spring open house. The event takes place Sunday, May 15th from 9:00 am to 2:00 pm. McCaw's is located at 1722 Madison Ave. in downtown Toledo. Need directions? Call us at 419-243-3720 or 1-800-537-0343. There will be specials and discounts so mark your calendar!

2011 SHOW & MWF CONVENTION

There will be a Show committee meeting at 6:30 PM April 20, right before the regular meeting. Anyone who wishes to help is welcome to attend. We are still looking to fill a few positions. We will be seeking volunteers to put in Library displays shortly. So be thinking about what you could share with the public. They love to see mineral and crystal specimens, any works in process as well as finished items. Be proud of your club and your efforts and help the rest of Toledo see what a great organization we are! For more information contact Jerri Heer: 419-344-9999 or jheerx6@aol.com.

ROCKY READER

Submissions for the May Rocky Reader **must be received by noon on Monday, April 25th**. If I do not receive a submission from your group or event, I will assume you have nothing to report. Submissions must be in writing and written as you wish it to be published. Email submissions to editor@rockyreader.com.

JUNIORS

Our normal Juniors Meetings are held on the 4th Sunday of each month. However the 4th Sunday in April is Easter, so we will have to set a different day. I am looking at May 1st as an alternate date and will email all of the registered Juniors when a final decision is made. Any others who are interested, should contact Jerri Heer, 419-344-9999 or jheerx6@aol.com.

DAYTIME GEMCRAFTERS

Are you retired, or work a non-traditional shift or job that gives you free daytime hours? Then Daytime Gemcrafters is for you! We meet every Thursday from Noon - 4 PM. We have several regulars, but there is always room for more! The four hour block of time really gives you a great opportunity to get some cutting/grinding done. We bring in other projects, beading, gem trees, etc and have a great time just chatting too. 419-344-9999 or jheerx6@aol.com.

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GEMCRAFTERS

All new members or existing members that need to work in the Gem-craft center to cut and polish cabochon **for the first time**, please call or email Elie or Chet to schedule a meeting slot for your training to complete your first cabochon AND PLEASE LEAVE YOUR FULL NAME AND CONTACT INFORMATION.

METALCRAFTERS

The metalcrafters will meet April 3, 14, 17 and 28. Sunday meetings are from 1:30-3:30 and Thursday meetings are from 6:30-8:30. If you **HAVE NEVER ATTENDED**, please call or e-mail me (debhoffmaster@gmail.com) to schedule a three meeting slot to complete the instructional pendant. When you do so, please **LEAVE YOUR FULL NAME AND CONTACT INFORMATION**.

If we have bad weather and must cancel a meeting, the cancellation will be sent by e-mail, no later than one hour prior to the meeting. If you are unsure, call Kathy Petersen or myself.

METALCRAFTER AUCTION UPDATE

A BIG Thank you to everyone who supported the metalcrafter auction. We have decided to make purchases in two areas of deficiency: raising and chasing. There is an interest in making bowls and other formed vessels but the tools we have for this are insufficient for any but the most limited shapes. Consequently, we have ordered two plastic forming mallets, two forming stakes and a stake holder. In addition, we purchased a set of chasing tools, two pitch bowls and an embossing plate for the hydraulic press. The plate is used to pattern silver, copper and brass sheet. These tools will be used in the upcoming classes and may be used during any regular metalcrafter meeting.

Deb Hoffmaster, Metalcraft moderator

CLASSES

The following schedule is a listing of upcoming classes. To enroll, please send fees to the instructor. **Fees must be received THREE WEEKS prior to the class to allow time for ordering materials.**

April 16, 2011. 10AM. Enameled Picture Bowl Session 1. Instructor Debra Hoffmaster Fee \$30.00. 2 spaces left. In this class, students will raise a shallow copper bowl from 18ga copper.

April 23, 2011. 10AM. Enameled Picture Bowl, Session 2. Instructor Harriet Nearing. Fee \$30. 2 spaces left. Please NOTE: Anyone registering to attend this session MUST have also registered for Session 1. In this session, students will enamel the bowl made in session 1. Using a brush-on liquid enamel, students will produce a white surface which can be drawn through to produce a pattern. This patterned white section will be topped with a transparent enamel to produce a patterned shallow dish. Please send fees to Debra Hoffmaster.

May 14, 2011. 10AM. Woven bracelet. Instructor Su Drake. Fee \$75.00. Make a woven copper and silver bracelet. This is a beginner-friendly class and will take place during the Spring Open House. No soldering is required.

May 28-29, 2011. Faceting Class. Saturday and Sunday. Fee \$40 includes class material and one stone to cut "clear quartz". Spaces are limited to six (6) peoples using "Chet" faceting machines and up to four (4) more using their own machine. Please email Elie Ghanime at eghanime@bex.net to register (First come first serve). If you need to rent, borrow or buy a new or used machine, please contact Ed Reynolds at 419-340-8801 or email him at ereynolds4@aol.com



TG&RC 2011 CABOCHON CONTEST

The club will be holding a cabochon contest during our club meeting on Wednesday, June 15, 2011.

All cabs will be submitted on the contest form to Steve Shimatzki, the cabs will be numbered, categorized and recorded; the judges will judge the numbered cab as categorized.

Judging and awards presentation will be completed during the meeting.

Any changes or adjustments to the above will be posted in the Craft Center.

Contestant can only apply in one of the following categories:

- Advance
- Intermediate
- Beginners
- Juniors

Judging will be based on the following:

- Cut
- Finish
- Colors & Patterns
- Geometrical shape and balance for (Freehand cuts)
- Size for standard cuts

This year judges are:

Chet King, Jerri Heer & Elie Ghanime

Please fill out the form on the next page and submit to Steve Shimatzki. Forms will be accepted up to the start of the June 15 meeting. To save time, please complete the form in advance.

NOTE:

PLEASE DO NOT SHOW YOUR CABOCHON TO ANY OF THE JUDGES,
THE CAB WILL BE DISQUALIFIED.

CABOCHON CONTEST FORM

NAME: _____

Cabochon No. _____

.....
DETACH BOTTOM PORTION AND SUBMIT TO JUDGES
.....

Cabochon No. _____

CATEGORY (Please check one):

ADVANCE INTERMEDIATE

BEGINNER JUNIOR

CABOCHON INFORMATION

MATERIAL: _____

SIZE: _____

OVAL RECTANGLE ROUND

SQUARE FREEHAND OTHER _____

DO NOT WRITE BELOW THIS LINE

JUDGING SCORES

Description	Judge #1	Judge #2	Judge #3	Ave. Score
CUT: _____				
FINISH: _____				
COLORS / PATTERNS: _____				
SHAPE (Freehand): _____				
SIZE (Std. Cut): _____				
				Total Score: _____

COMING EVENTS from Chetty King's Flyer Table

April 16-17: COLUMBUS, OH. 38th Annual Central Ohio Mineral, Fossil, Gem & Jewelry Show; Veterans Memorial, 300 W. Broad St.; Sat. 10-6, Sun. 11-5; CONTACT: Ken Harsh at karmakenha@aol.com or www.ColumbusRockandMineralSociety.org.

April 23-24: CUYAHOGA FALLS, OH. Summit Lapidary Club and Akron Mineral Society's Spring 2011 Gemboree; Emidio & Sons Expo Center, 48 East Bath Rd.; Sat. & Sun. 10-6; CONTACT: Ted Maringer or Evelyn Tryon, (330) 929-3798, www.lapidaryclubofohio.org.

April 23-24: TROY, OHIO. Show; Brukner Center Gem & Mineral Club; Miami County Fairgrounds, North End Activity Bldg., County Road 25-A; Sat. 10-6, Sun. 10-4; adults \$1, children free; dealers, specimens, gems, jewelry, demonstrations, displays, silent auction, door prizes, free rock for children, mineral identification, children's activities; contact Gene Davis, (937) 667-4160

April 29-May 1: KALAMAZOO, MI. Kalamazoo Geological & Mineral Society's Annual Show; Kalamazoo County Expo Center, 2900 Lake St.; Fri. 4-9, Sat. 10-6, Sun. 10-5; CONTACT: Bill Mitchell, 3605 Woodcliff Dr., 49008, (269) 375-5678, mitchellvickybill@sbcglobal.net.

May 7-8: Cincinnati, OH. Cincinnati Mineral Society's and Dry Dredgers' 46th Annual Gem, Mineral, Fossil & Jewelry Show of Greater Cincinnati; Cincinnati Gardens, 2250 E. Seymour Ave.; Sat. 10-6, Sun. 11-5; CONTACT : www.drydredgers.org, www.mineralsociety.org, www.geofair.com.

May 14-15: BEREA, OH. Parma Lapidary Club's 43rd Annual Show; Cuyahoga County Fairgrounds, 164 Eastland Rd.; Sat. 9-6, Sun. 10-5, CONTACT: John Zaborowski, 926 Lake Breeze Rd., Sheffield Lake, OH, 44054, (440) 949-8242, j751@centurytel.net.

3RD ANNUAL WORLD ROCK TUMBLING CHAMPIONSHIP

It's time to challenge the champions! The Third Annual Rock Tumbling contest is open to everyone, any age, worldwide, who enjoys tumbling rocks and wants a shot at being the best in the world. Here's how:

- Send in a completed application with a \$40.00 entry fee postmarked no later than May 6, 2011.
- Nevada Royal Jasper mine owner, Randy Messer, has agreed to provide the contest material this year. Each contestant will receive almost 4 pounds of rough sent USPS Priority Mail by the end of May.
- Contestants will have over three months to tumble the rock in a rotary or vibratory tumbler and mail a half-pound.
- (1/2 lb) of the best pieces for judging. The entries must be received no later than September 23, 2011.
- Steve Hart, author of Modern Rock Tumbling, will evaluate each entry on the basis of smoothness, shape, shine and overall appeal. He will select the top five entries to be displayed at the FRLMS Rock and Gem Show held in Oroville, California the first week-end of October.
- Everyone attending the Rock and Gem show will examine the top five entries and cast a ballot for their favorite. The top three popular vote winners will be announced following the show.
- **Prizes:** 1st Place: \$250.00, 2nd Place: \$100, 3rd Place: \$50

For complete details and application form go to:
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Household Mineralogy

by Andrew A. Sicree

Minerals and rocks in the home

We live in a world of plastic and steel. Apart from those household items that have their origin in plants (wood and cotton) or animals (wool), most of the things we use every day originate from a hole in the ground. Plastics come from petroleum, steel from iron ore, wallboard from gypsum from the burning of coal, and computer chips come from quartz sand. The list goes on. All of these items are derived from highly processed minerals.

Our ancestors lived in a world of stone and wood – they were perhaps more familiar with the raw minerals and rocks that they used in everyday life. But still today, we have minerals around the home, minerals and rocks that are used with a minimal amount of processing – typically little more than cutting or crushing and mixing with other materials. Let's go on a geological field trip around the typical home.

Scoria

The “lava rock” sold for use in gas barbecue grills is typically a basaltic scoria. Heated stone evens out the grills heat and the vesicles in the basalt help to catch grease falling from grilled food.

Pumice

Pumice is a volcanic rock – it really is a volcanic glass. Pumice makes a good abrasive and blocks of the stone are used to scour dead skin from calloused feet. Pumice is also found in Lava brand soap – this soap is a good hand cleaner precisely because it takes off skin as you use it. It is definitely not a beauty soap!

Graphite

Pencil lead is made of the mineral graphite, admixed with some clay minerals. And, as pencils are common household items, so graphite is, too. But another household use for graphite is as a dry lubricant for locks.

We use a small tube of graphite powder to lubricate the wheels of our sons' Cub Scout Pinewood Derby cars.

Chalk

Chalk is a calcium carbonate rock formed from deposits of the carbonate scales of marine phytoplankton. Blackboard chalk is a big use for this soft white rock. Around the home it can be found in children's sidewalk chalk and in toothpaste, where it serves as a mild abrasive (chalk has Mohs hardness of 4, your teeth have a hardness of about 5, so it won't scratch your teeth.)

Slate

Slate is a very fine-grained metamorphic rock that lends itself to being cut into flat plates. Schoolhouse chalkboards were classically made of slate (although artificial “blackboard” materials have taken over in many school). Household uses of slate included slate roofs. A properly installed and maintained slate roof can last 100 years, compared with a 20-year life span for asphalt roofs. Because it is non-conductive, slate was formerly used as backboards for household circuit breakers. Slate circuit boards will have been replaced in any house with modern wiring, but the old slate circuit boards may still be hanging on the basement walls.

Slate is used in the bed of better-quality billiards and pool tables. It makes the pool table very heavy, but gives a very flat and stable surface that will not warp with changing humidity.

Vermiculite

Vermiculite, an expandable mica, finds a variety of uses in the home. Vermiculite is a sheet silicate mineral with water molecules between its layers. Upon heating, the interplanar water boils to a vapor and puffs up the vermiculite crystals in much the same manner as popcorn pops.

In many old houses, expanded vermiculite has been used as a thermal insulation material. Typically, single crystal flakes about 0.25 inches across are expanded and the puffed up granules are poured or blown into spaces between the walls. Expanded vermiculite is inexpensive, nonconductive, and fireproof – an ideal insulating material. Unfortunately, vermiculite insulation got a bad rep when it was discovered that vermiculite from a major producer – W. R. Grace’s mine in Libby, Montana – contained very unhealthy levels of asbestos. Although many homes have been remediated, houses still have asbestos-containing Libby vermiculite hidden in their walls. It is important to recognize that vermiculite itself isn’t a health hazard.

Vermiculite can be spotted around the home in plant potting mixes (as those silvery or golden flakes), in kitty litter, and in gasoline spill clean-up kits.

Coal

Coal, of course, has been popular for home heating for more than 150 years. Many houses still heat with coal, although the advent of automatic coalers make shoveling coal into the furnace a thing of the past for most householders. Many automatic coalers require “pea” (13/16” – 9/16”) or “buckwheat” (9/16” – 5/16”) sizes, so the coal cellar full of baseball-sized rocks is also a thing of the past. Although coal produces about 50% of our country’s electricity, Americans are becoming less and less familiar with coal. Each year, I’m amazed at the fact that few of my geology students recognize coal, even though I teach geology in Pennsylvania, a major coal-producing state.

Even if an older house is now heated with gas or electricity, one can still sometimes spot the metal hatches over the coal chute through which the deliveryman poured his load of coal. An overlooked chunk might still lurk in a dark, unswept corner of your basement.

Both anthracite (hard coal) and bituminous (soft) coal are used for home heating. Coal can also be found in some aquarium filters and water filters.

Kitchen countertops

Stone countertops for kitchens and bathrooms crop up in expensively-appointed homes. The custom stone industry sells a variety of “granites” and “marbles” but these are trade names, not geological terms. In general, the “granites” are silicate rocks while the “marbles” are

carbonate rocks. Some stone, such as “Missouri Red Granite,” really is granite. Other stones, such as “black granites,” might really be gabbros, diorites, anorthosites, or even larvikites. Some stones sold as “granites,” especially those with swirled patterns, are metamorphic gneisses. One can even find pegmatite veins running across some people’s kitchen counters.

Countertop marbles can be true marble. Snow-white marbles are often preferred for bathrooms, for instance. Other stones sold as “marbles” include travertines and limestones. Green marbles may be serpentinites. Travertines are hot-spring deposits and often are very porous – usually these rocks must be coated with a plastic sealant before use. Fossiliferous limestones display interesting patterns from the cut-through brachiopods and gastropods that are commonly found in such stones. Fossil-bearing limestones from Pakistan are popular for use in stone bathroom sinks and stone urns and pillars. Clearly, any rock displaying well-preserved fossils cannot be a true marble.

Pumice

Pumice is a volcanic rock – it really is a volcanic glass. Pumice makes a good abrasive and blocks of the stone are used to scour dead skin from calloused feet. Pumice is also found in Lava brand soap – this soap is a good hand cleaner precisely because it takes off skin as you use it. It is definitely not a beauty soap!

Talc

Formerly, most baby powder was made from talc, the softest mineral. Often the bottle read “talcum powder.” Concerns over exposing infants to trace asbestos and other mineral dusts resulted in the replacement of talc with powdered corn starch in most baby powders in use today.

Soapstone (massive talc) is used for side panels in some modern wood burning stoves manufactured in Vermont. The soapstone absorbs heat and radiates it more steadily than iron stove sides. For a similar reason one may find soapstone used to make boot warmers.

Hand-carved gemstone boxes, made of soapstone and sometimes inlaid with mother-of-pearl flowers, are popular gift items. Many of these are carved in India, Pakistan, or China.

Garnet

Garnets can be gemstones, but it is more common to find garnets at home in the form of garnet sandpaper. Some sandpapers were originally covered with grains of quartz sand but synthetic materials like aluminum oxide (the mineral corundum is aluminum oxide) are more commonly used today. Similarly, emery paper and emery boards for sanding fingernails utilize synthetic or natural corundum (emery) as the abrasive. Garnet sandpapers are used for woodworking and have a distinctive orange color.

Mica

Muscovite mica, a silvery sheet silicate mineral, is found in a surprisingly wide range of household products. Crushed mica is used as a glitter in make-up products ranging from lipstick to blush to metallic fingernail polishes. Similarly, crushed mica is used in automobile paints to give a “metallic” flash to a car’s paint job.

Boards made of compressed mica fragments are used as insulators in kitchen toasters where they support the electrical heating coils. Mica is ideal for this job because it is a non-conductor and is fireproof.

Sheets of mica called isinglass were used to make fireproof lampshades and employed in windows in wood burning stoves.

Feldspar

Crushed feldspar has been an abrasive ingredient in scouring powders such as Bon Ami – although its tendency to scratch plastic, vinyl, and metal finishes has made it decline in popularity.

Borax

Although many are not aware that it is a natural product, borax makes a good detergent. The borax in Twenty Mule Team Borax, a laundry detergent, is a naturally occurring mineral. As mined in places such as Death Valley, “borax” is a mixture of the mineral borax and other closely related sodium borate minerals.

Halite or salt

Salt is perhaps the oldest household mineral. It comes from either evaporate deposits near the sea (“sea salt”), or from underground mines as the mineral halite.

The salt used in household saltshakers has typically been recrystallized and iodized, and it has some anti-clumping agents (such as sodium silicoaluminate) added to keep it free-flowing even in humid environments.

Rock salt is used to de-ice sidewalks and driveways in winter. This material is usually obtained from underground salt mines and the amount of processing is minimal.

Gemstones

No discussion of household minerals would be complete without mentioning gemstones. Gemstones found in the typical jewelry box range from the rare (diamond, tanzanite) to the common (smoky quartz and amethyst). Gemstones usually come from among the harder minerals like corundum (ruby and sapphire), beryl (aquamarine and emerald), and topaz. Turquoise, opal, and jet are typically the softest and most easily damaged of the common gems. Garnets, lapis lazuli, citrine (yellow quartz), agates, and many other minerals and rocks can be found in jewelry as well.

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*Dr. Andrew A. Sicree is a professional mineralogist and geochemist residing in Boalsburg, PA. This **Popular Mineralogy** newsletter supplement may not be copied in part or full without express permission of Andrew Sicree. **Popular Mineralogy** newsletter supplements are available on a subscription basis to help mineral clubs produce better newsletters. Write to Andrew A. Sicree, Ph.D., P. O. Box 10664, State College PA 16805, or call (814) 867-6263 or email sicree@verizon.net for more info.*

Emery

Emery in the form of emery boards and emery paper is a common enough household item and we are told that emery is just a variety of corundum (hexagonal Al_2O_3). This is true up to a point, but naturally-occurring emery is usually a mixture of minerals. The predominant mineral is corundum, which is quite hard ($H = 9$). But other minerals occur intimately mixed with the corundum in the emery. Iron-bearing spinel minerals such as magnetite (cubic Fe_3O_4) and hercynite (cubic $FeAl_2O_4$), and rutile (tetragonal TiO_2) contribute to making emery a dark gray to black material. Because these minerals are softer than corundum, the effective hardness of emery is something less than nine.

Formerly, the Greek island of Naxos was the most important source of this industrial abrasive, but the widespread manufacture of cheaper synthetic abrasives has cut into demand for emery.

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Not Quite Rock

ACROSS

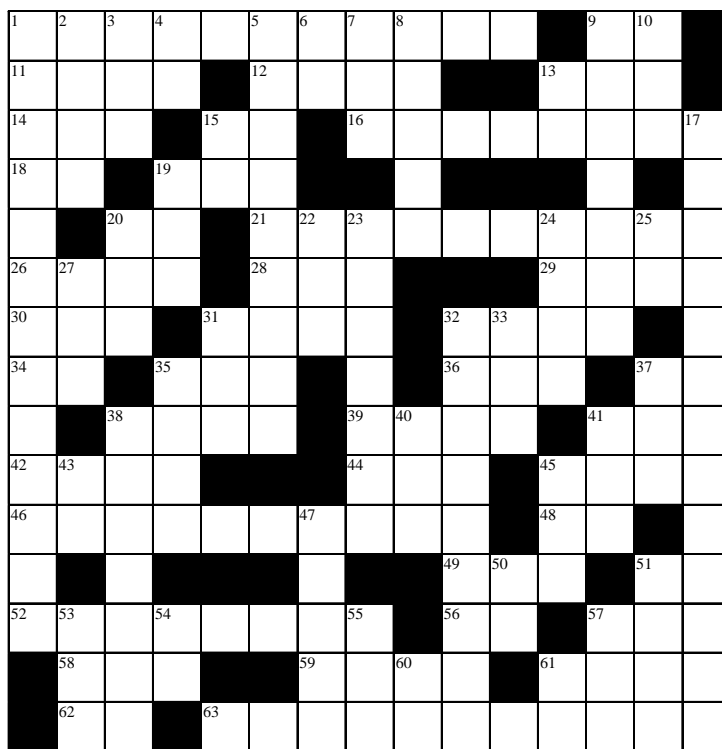
- 1 layered types of rocks
- 9 state noted for soapstone
- 11 longer periods of time
- 12 used to identify minerals
- 13 useful for writing specimen labels
- 14 opposite of outa
- 15 time more than 2010 years ago
- 16 “strange rock” found in another rock
- 18 very fast type of jet aircraft
- 19 source of natural halite
- 20 anti-aircraft
- 21 lead and chlorine mineral
- 26 major uranium mine
- 28 International Labour Relations (ab)
- 29 comes before twoer
- 30 not true
- 31 rock group
- 32 temporary license
- 34 Canadian province (ab)
- 35 suite (ab)
- 36 cheer
- 37 for example
- 38 opposite of a watcher
- 39 not quite like an eyelet
- 41 one more than a single
- 42 a better thought
- 44 an ancient Tongan dance
- 45 red variety of corundum
- 46 chalcopryite habit
- 48 silver
- 49 like a referee
- 51 home of Flint Ridge
- 52 fine layers inside rocks
- 56 radium
- 57 Mineral Information Inst.
- 58 car club
- 59 disease dangerous to collectors
- 61 soft layered silicate
- 62 fluorescent (ab)
- 63 those who study minerals

DOWN

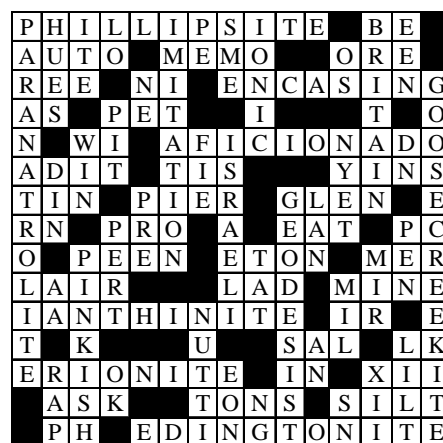
- 1 studying shaking rocks
- 2 more longer times

- 3 found in every cell
- 4 island (ab)
- 5 found stuck in a rock
- 6 National Review (ab)
- 7 unavoidable
- 8 twelve months =
- 9 quartz or calcite lines cutting through rock
- 10 gives miners a blast
- 13 like palladium
- 15 found in beryl
- 17 Egyptian writing
- 19 ___ Paulo in Brazil
- 20 like beer
- 22 white garment
- 23 found in uraninite
- 24 ancient mariner
- 25 found with gold at Cripple Creek, CO
- 27 kith and ___
- 31 not like an eight
- 32 the guy with the gold
- 33 tit for ___
- 35 done remove dirt from minerals
- 37 motion of tides
- 38 in tenths

- 40 law degree
- 41 how minerals are gotten
- 43 between ti and ra
- 45 strike on the knuckles
- 47 amorphous silica mineral
- 50 like mom
- 51 not quite oiler
- 53 Army Air Force
- 54 each
- 55 an ___ for an ___
- 57 girl’s name like May
- 60 state with a cape
- 61 found in thorite



LAST MONTH’S SOLUTION: More Zeo



April

2011

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3 Metalcraft 1:30p	4	5 Extreme Beaders 9:00-5:00p Faceteers II 7:00p	6 Gemcraft 7:00p	7 Gemcraft 12-4p	8	9
10	11	12	13 Gemcraft 7:00p Faceteers 7:00p	14 Gemcraft 12-4p Metalcraft 6:30p	15	16 Enameled Bowl 1 10:00a
17 Metalcraft 1:30p	18 Beaders 6:00p	19 Extreme Beaders 2:00-6:30p Faceteers II 7:00p	20 Show Mtg 6:30p Club Mtg 7:00p Gemcraft Auction	21 Gemcraft 12-4p	22 Extreme Beaders 9:00-5:00p	23 Enameled Bowl 2 10:00a
24 HAPPY EASTER	25 Rocky Reader Deadline	26	27 Gemcraft 7:00p	28 Gemcraft 12-4p Metalcraft 6:30p	29	30

Group meetings and classes are for members only. Our club meetings are open to the public on the third Wednesday of every month. To learn more about our club, visit us during our Open House held every May and November.



**Rocky Reader Editor
Suzanne Shimatzi
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