



Rocky Reader

The Monthly Newsletter Of The
Toledo Gem And Rockhound Club

Volume 45(8)

August, 2008

IT'S SHOWTIME!!

There's **only 1 month left** so find your badge, sort through your rock collection, and dust off the crock pot! The committee works hard organizing and advertising but we can't run the Show without YOU! Now's the time to sign up and bring in donations!

The Show Committee **needs members to create a display** for Rossford and Way Public Libraries for the month of August. If interested, please contact Jerri Heer by July 30 to make arrangements.

Workers are needed for the following areas. The sign-up sheet will be available at the August meeting or contact Suzanne.

- * Thursday Setup
- * Friday Setup
- * Sunday Take Down
- * Admissions
- * Raffle
- * Club Sales & Silent Auction
- * Kids Area (Games, Kits, Classes)
- * Touch N Feel
- * Extras/Floaters

Donations are needed for the following areas. Bring to the August meeting or contact Jerri or Suzanne for pick-up/drop-off arrangements.

- * Raffle Prizes (jewelry, gem, mineral, carving, etc)
- * Club Sales/Silent Auction (anything goes)
- * Kids Prizes (tumbled stones, quartz, small rocks, or novelty toys/favors)

This year we have a menu for the hospitality area so there's no guess work! **Just contact Suzanne if you can bring in some food**, cookies, chips, pop, etc.

New this year

Yard signs will be available at the August meeting and at the craft center. Please take a few to advertise in your area! Help us save costs by returning the yard signs after the show so we can reuse them next year.

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Tickets are now available. You do not pay for tickets upfront. You will only be charged for the tickets you take that are turned in during the show. And we still have 50 cents off coupons available for anyone wishing to distribute.

Don't forget, the Show needs YOU to be successful!

Toledo Gem and Rockhound Club Meeting Minutes July 16, 2008

Pledge of Allegiance, time 19:10

Program - Insect fossils

Secretary report - motion to accept John Kalinoski, seconded Mike Mayer, motion passed.

Treasurer report - motion to accept Harold Burleson, seconded Chester King, motion passed.

Old business - TBG had their third quarter meeting of presidents of RO's, with the TBG president and executive director in July. Main theme was what their plans are for developing the gardens.

New business - a request from wildlife refuge for our club to put a case and our literature for a display there for a month, probably after the show.

TBG and gemcraft - Chet explained that the club needs to find out about security with the wildlife refuge before taking further action. The shop will be open during normal hours. Several area club shows are in July and August. Arts in the Garden in August if you want to sell you will need to fill out a form. Also looking for a volunteer for TBG in the parking area.

Beaders - class starts at 18:30 hrs.

Faceters - call Dick Bowers for information.

Membership - 33 members and 4 visitors.

Rocky Reader - deadline is July 21.

Metalcraft - August 3 is Arts in the Garden, will be open if Kathy is available.

Sunshine - good news – no bad news.

Field trips - no trips are scheduled at this time

Show - Jerri has sign-up sheets for volunteers. You can call or e-mail Suzanne Shimatzki to find out what is needed.

Open house - no report

Motion to adjourn - Linda Maiani, seconded by Bonnie Wheeler. Motion passed 20:15.

Submitted by John Capuano, Club Secretary

If you are interested in field trips, PLEASE call Harold Burleson or Steve Shimatzki to be added to the contact list.

CLASSES

August 15-17. Midwest Faceters annual seminar. West Suburban Lapidary Club; Elmhurst College, 190 Prospect Ave., Wilder Park (across from the Lizzadro Museum of Lapidary Arts). Fri. 4-8:30; Sat. 8:30-5:30, Sun. 8:30-5:30. Adults \$95; classes from 8:30 a.m. to 5 p.m. Sat. and Sun., all levels of faceting skill; contact John Zaborowski, (440) 949-8242; e-mail: jjzabor@roadrunner.com; www.westsuburbanlapidaryclub.com

November 15, 2008. 10AM. Vertebrae bracelet. Instructor Kathy Petersen. Fee \$60.00. This is a modified 4 in 1 chain maille bracelet, with an inner ring, also called vertebrae pattern. To enroll, please **send the all fees to the instructor.** Fees must be received, at the latest, **two weeks prior to the class.**

Thelma Postlewaite's Family News

Linda Pratt 8-6
 Sandy Hall 8-7
 Sue Smith 8-8
 Jerri Heer 8-12
 Rita Grove 8-16
 Shirley Steib 8-28

Good news - no illnesses this month! Chetty King has moved to Josina Lott Residential & Community Services. Get his new address from Chet.

Submitted by Lucille Burgy, Sunshine

GARDEN NEWS

Volunteer Hours - If you help out at open houses, Heralding, plant sales, etc., Please **MAKE SURE** that you fill out a volunteer form. These are available from Chet and may be turned in to him. Volunteer forms are collected 4 times each year for the months/quarters JanFebMar/ AprMayJune/ JulyAugSept/ OctNovDec/.

FACETEERS

Faceteers meet on the second Thursday of the month at members' houses. Contact Don Ault or Dick Bower for more information. On August 15-17, the Midwest Faceters will have their annual seminar at the West Suburban Lapidary Club, Elmhurst College, 190 Prospect Ave., Wilder Park (across from the Lizzadro Museum of Lapidary Arts). Hours are Fri. 4-8:30; Sat. 8:30-5:30, Sun. 8:30-5:30. Adults \$95; classes from 8:30 a.m. to 5 p.m. Sat. and Sun., all levels of faceting skill; contact John Zaborowski, (440) 949-8242; e-mail: jjzabor@roadrunner.com; www.westsuburbanlapidaryclub.com

FIELD TRIPS

To be informed of upcoming field trips, you must call Harold Burleson or Steve Shimatzki (see the club directory in the April newsletter or provided when you joined the club) so that you may be added to the field trip list. This is especially important if you already have safety training; many quarries require it.

Agate Rendevoez 2008, a ten day inter-federation field trip campout, will be held on August 23-September 1 at Apache Creek, New Mexico. There will be rock collecting and many attractions to go to. For more information email rockymountainrockhounds@yahoo.com or contact Yonis Lone Eagle, Rocky Mountain Federal Mineral Society and New Mexico/Texas State Director at 505-860-2455. Please RSVP by August 20 if you plan to come.

Reprinted from *Greater Cincinnati Lapidary and Faceting Society Newsletter*, Mar, 08

BEADERS

The Beaders meet on the third Monday of the month at 6:30PM in the craft center.

Nancy Grove, Moderator



**Crystals...Minerals
Cutting Stock.....Tools
New and Used
Equipment
Buying Used Equipment
and Mineral Collections**

R & E Rocks

**654 Culley Rd
Holland, OH 43528**

Owned and Operated by
Ed and Ruby Reynolds,
Club members
By Appointment Only:
419-382-1089 or 419-340-8801



GEMCRAFTERS

The gemcrafters meet on Wednesdays (except the third) at 7PM in the craft center. Chet can give classes on any lapidary topic. If there is something that you are interested in learning, contact him.

Chet King, Jr., moderator

METALCRAFTERS

The metalcrafters meet on the first and third Sundays at 1:30 and the second and fourth Thursdays at 6:30. Metalcrafters WILL MEET during Arts in the Garden (August 3 - Thanks Kathy!). We ask that **those members who have never attended**, please call or e-mail Debby to schedule a three meeting slot to complete their instructional pendant.

Deb Hoffmaster, moderator

Coming Events from Chetty King's Flyer Table

August 2. Ishpeming Rock & Mineral Club Show. Ishpeming Elks Club, 597 Lake Shore Dr., Ishpeming, MI. Sat. 9:30-4:30; free admission.

August 22-24. Michiana Gem & Mineral Society Show. St. Joseph County 4-H Fairgrounds, 5177 S. Ironwood Rd., Ironwood and Jackson Rd., South Bend, Indiana. Fri. 2-7, Sat. 10-6, Sun. 10-4. Adults \$2.50, children 6-12 \$1, under 6 free.

August 23-24. Peoria Academy of Science Geology Section Show. Ito Hall Banquet Hall, 4909 W. Farmington Rd, Peoria, Illinois. Sat. 9-5, Sun. 10-5 Free admission.

September 12-14. Tulip City Gem & Mineral Club Show. Holland Civic Center, 8th St. and Pine, Holland, Michigan. Fri. 9-8, Sat. 9-7, Sun. 11-5. Adults \$2, students 50 cents.

October 10-12. Michigan Mineralogical Society Show. Macomb Community College Expo Center, Bldg. P, South Campus, 14500 E. 12 Mile Rd., Warren, Michigan. Fri. 9-7, Sat. 10-7, Sun. 11-5. Adults \$7, seniors (62+) \$4, children (5-17) \$3, Scouts in uniform \$2, 3-day pass

October 17-19. Three Rivers Gem & Mineral Society Show. Allen County Fairgrounds, 2727 Carroll Rd., Fort Wayne, Indiana. Fri. 10-7, Sat. 10-7, Sun. 10-5, Adults \$3, seniors \$2, students \$1, children under 12 and Scouts in uniform free.

October 24-26. Central Michigan Lapidary & Mineral Society Show. Main Arena, Ingham County Fairgrounds, Mason, Michigan. Fri. 6-9, Sat. 10-7, Sun. 11-5

October 25-26. "Gemboree." Emidio & Sons Expo Center, 48 E. Bath Rd, Cuyahoga Falls, Ohio. Sat. 10-7, Sun.

October 25-26. Evansville Lapidary Society Show. Washington Square Mall, Green River Rd. and Washington Ave., Evansville, Indiana. Sat. 10-9, Sun. 12-5. Free admission.

Canadian Diamonds in the News

For more on Canadian diamonds - see the August/September and October/December 2007 issues of the *Rocky Reader*

Did Canadian Diamonds result from a comet explosion?? New chemical analyses of diamonds and precious metals found in Ohio and Indiana reveal the minerals were transported from Canada by glaciers several thousand years ago. A theory proposed by Allen West and colleagues suggests that a 3-mile-wide comet splintered over glaciers and ice sheets in eastern Canada about 12,900 years ago resulting in the extinction of several species of North American megafauna, including mammoths and mastodons, and leading to the early demise of the Clovis culture, a Stone Age people who had only recently immigrated to the continent. "These would have been like ten thousand Tunguskas going off at once" said West referring to a mid-air explosion over Siberia a century ago. The diamonds, gold, and silver could have been ejected into the air during the blasts West said or they could have been carried south by rivers formed from the meltwater of liquified glaciers. For several months following the comet strike the researchers speculate that the skies rained precious stone and

metals . Diamonds may have fallen down by the tons. Excerpted from <http://www.livescience.com/strangenews/080707-canada-diamonds.html>

Purple Diamonds Discovered. In March, Dianor Resources discovered a sample of rare purple diamonds at its Ekomiak V property in the James Bay region of Quebec, Canada. The new diamond discovery is the largest to date in Quebec. The diamond-bearing Ekomiak Conglomerate extends for four kilometers and up to 500 meters in width with individual outcrops measuring 500 meters by 400 meters in size. Some reports claim they found 9 and others 16 micro purple diamonds. They found 856 diamonds from 26 surface rock samples over 2.7 billion years old. The largest diamond was a colorless measuring 1.06 mm x 0.98 mm x 0.56 mm. The largest purple found is of 335 x 379 x 225 microns. The company announced in February plans to raise \$10 million in a private placement to cover expenses in hopes of finding some larger purples. Of course, purple is one of the rarest and most desirable colored diamond colors. A new supply would be nirvana for collectors. Reprinted from the *Greater Cincinnati Lapidary and Faceting Society Newsletter*, June 2008, via *Cedar Valley Gems* 5/08 . Thanks to www.preciousgemstones.com.

Finding Rock Hunting Maps On The Internet - by Glen Miller

Here are some tips for locating free online maps (primarily USA). The good news is that there is a federal program that publishes digital products online that will provide complete national coverage. The bad news is that it is a federal program, subject to manpower and funding constraints, but it is a very good start.

The Internet is a source for many maps of other countries. I have viewed geological maps of Oman and even the Moon and Mars online.

Geological and Geophysical Maps - Finding The Map you need: Traditionally, one went to a state bookstore to purchase a paper map, hoping it was still in print. The trend today is to publish them online with free access! Tennessee will no longer be printing maps in advance. Maps that aren't online can be purchased for \$20 a map, printed straight from a digital file.

About.com = the quick and easy solution for links to state geological maps. About.com pre-searches and assembles all types and classes of information. If you go to their Geology or Maps sections and poke around, there are pages for state geological maps and state geological organizations. There is also <geology.com> with similar sources. They also list state authorities and links to their websites. Once in those websites, you may frequently find a free downloadable map for the local area you are looking for. The USGS has taken great steps to centralize the search for geological maps. Reprinted from the *Greater Cincinnati Lapidary and Faceting Society Newsletter*, June 2008, via *Breccia*, 3/08, *CFMS Newsletter*, 2/08 & *The Tumbler* 6/08.

The Moon

The Moon has been studied more closely than any planetary body beyond Earth, having been examined for several centuries by telescope from Earth. Despite this, one of the most obvious features of the Moon was unknown before the era of spaceflight. In 1959 the Soviet spacecraft Luna 3 took pictures as it flew past the far side, making us aware, for the first time, that the near side has an unusual characteristic: the large dark maria, or "seas," that we can see with the naked eye from Earth, occur almost exclusively on the Earth-facing hemisphere. The far side is composed almost totally of the high, bright regions called terrae. These highland terrae are much more heavily cratered than the maria, and so are older. The nearside maria are thin lava flows filling large impact basins that were blasted out of the terrae. The lava flows that filled the maria were very fluid basalt's (some are over 1000 km long, yet only about 10 meters thick). In contrast, the highland rocks that compose the terrae represent mostly plagioclase-rich crust formed early in the Moon's history.

The Moon is the only satellite on which we have done hands-on geologic field work: 842 pounds of rocks, drill cores, and loose surface material samples were brought back, and a network of geophysical instruments were deployed by astronauts over a brief 3 year period from 1969 to 1971. The seismometers they set up there picked up waves generated from moonquakes, meteorite impacts, and man-caused seismic waves. Moonquakes are relatively mild in comparison to earthquakes, and occurrences are usually related to tidal effects caused by changes in the Earth-Moon distance (unlike those of Earth which are the result of shifting plates moving past one another). From analysis of these seismic waves, some information about the interior was obtained. The Moon's crust was determined to vary in thickness, being quite thin-a few tens of kilometers under some basins-to more than 100 km under some highland regions. Sampling rocks thrown out by impacts has allowed the mineralogy of the materials from beneath the crust to be analyzed in the laboratory. Knowledge of the deeper core is more limited, though, due to its depth of more than 1,000 km below the surface. Currently, our knowledge of the core is based on theory, grounded in what is known about the magnetic field and comparison with what we know of our own core. The magnetic field is less than 1/1000 of Earth's, hence we believe that, unlike Earth's core, the Moon's core is relatively free of liquid metal.

Rocks returned from the Moon, however, indicate an ancient magnetic field, suggesting a different past. Rocks returned from the Apollo missions have allowed specific ages to be determined for some units. The highlands formed about 4 b.y. ago, and the maria about 2.5 to 3.8 b.y. ago. Thus, most of the youngest lava's we see today on the Moon's surface flowed before many of the oldest rocks found on Earth were even formed, indicating that the Moon has been largely geologically inactive for the last 2.5 billion years, except for occasional impact events (large impacts still occur sporadically: the 80-km-diameter crater Tycho was formed about 105 million years ago, not long (geologically) before a larger impact on Earth closed out the Mesozoic era and presumably killed off the dinosaurs). Because of this geologic stability, and the lack of water, weathering on the Moon is limited to impact "gardening" and darkening by solar radiation. As a result, Tycho looks very fresh. Geological processes on Earth, in contrast, have buried the younger Mesozoic-ending impact beneath thousands of feet of sedimentary deposits, making it visible only by geophysical prospecting methods. Despite our having visited the Moon, the origins of some of its features still remain controversial, and much is yet to be learned. This is not surprising, considering that less than 80 hours of geologic field work have been conducted on the Moon. Though no manned missions are currently planned to go back to the Moon, recent robotics missions are giving our Moon a second look and are providing interesting discoveries such as the possible discovery of water ice at the south pole. An affordable way to map geologic variations of the lunar surface is with multispectral sensors-the Galileo spacecraft obtained a few images in seven different spectral bands as it flew past Moon in 1990 and again in 1992 on its way to Jupiter. The Clementine spacecraft mapped nearly the entire surface in seven bands as it orbited the Moon in 1994. These data are currently being processed to reveal compositional variations. Global altimetry data were also collected for the first time by Clementine. One of the significant discoveries from these data so far is the verification of a previously suspected impact basin near the south pole that is the largest known impact basin in the Solar System.

From: <http://astrogeology.usgs.gov/Projects/BrowseTheGeologicSolarSystem/MoonBack.html>

Recipes for Metalcrafters

So, you wanted to make your own...Well, Here's how!

Prip's Flux

120 grams boric acid
80 grams TSP (trisodium phosphate)
80 grams borax.

Peter Rowe

1 liter water

Heat to dissolve it (you might have to add a little more water.

It's the 3:2:2 ratio that's important, not the concentration.).

It is applied by spraying the solution onto warm metal to produce an even white coating over the entire piece. This coating excludes oxygen and therefore aids in preventing firescale. Except in very specific circumstances, Pripp's flux will not substitute for a soldering flux. I place my soldering flux and solder pallions before spraying. That allows me to replace any pallions that have "jumped" from position.

The biggest problem in using Prip's flux is keeping the sprayer from clogging. Because the solution is saturated, boric acid tends to crystalize out on the bottom, sides and sprayer pipe. These crystals can be sucked into the pipe and prevent spray from reaching the nozzle. A second problem is the sprayer nozzle itself which can become clogged if exposed to air long enough for crystals to form. Prevention is the easiest way to solve both of these problems.

To prevent crystal growth in the sprayer, let the Prips solution sit for several days in the environment where it will be used, so that crystallization can occur in the storage container. Once crystallization has occurred, decant the clear liquid solution into the sprayer. Don't worry about any crystals on the bottom of the storage container. If crystals form in the sprayer, pour the solution into a bowl, wash out and discard any crystals left in the sprayer (hot water helps), and pour the liquid back into the sprayer. It is also a good idea to thoroughly clean the sprayer nozzle assembly as crystals left behind just serve as seeds for further crystal growth.

To discourage crystal growth in the nozzle store the sprayer under water by filling the protective cap with water before capping the nozzle.

For more information about Pripp's flux, see the following internet articles by Peter Rowe:

http://users.lanminds.com/~drewid/PWR_Pripps.html

<http://ganoksin.com/orchid/archive/9908/msg00685.htm>

Soldering Flux

I got this from Nina Mann, she got it in a Michigan silversmith's workshop

1 pint distilled water

6 Tablespoons Borax

4 Tablespoons Boric Acid

3 Tablespoons Trisodium Phosphate

Boil to dissolve. Let sit for several days in the environment where it will be used. This allows crystallization to occur. Decant amount to be used into a small bottle. Apply as with any soldering flux.

H&H solder alloys

E. Potter

Grade	Percentages by Weight			Zinc	You MUST melt the copper first, and when molten, add the silver, and when that is molten, add the zinc.
	Fine Silver	Copper			
Easy	65	20	15		
Medium	70	20	10		
Hard	75	22	3		

Reticulation Alloy - Coin Silver, 80/20

Take the weight of clean sterling silver scrap * 0.056 = the weight of copper to be added to bring the percentage of copper to 20%. Melt copper first, then add sterling. When completely melted, pour ingot.

August

2008

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3 Arts in the Garden 11-5 Metalcraft @ 1:30	4	5	6 Gemcraft @7	7	8	9
10	11	12	13 Gemcraft @7	14 Metalcraft @ 6:30	15	16
17 Metalcraft @ 1:30	18 Beaders @ 6:30	19	20 Show meeting @ 6 Club meeting @ 7	21	22	23
24	25	26	27 Gemcraft @7	28 Metalcraft @ 6:30 Faceteers @ 7	29	30
31						

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