

# Rocky Reader

The Monthly Newsletter Of The  
**Toledo Gem And Rockhound Club**

Volume 46 – Issue 3

March 2009

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## SHOW & TELL NIGHT

We know how much you love to show off your rocks so why not bring a few to the March meeting for our first Show & Tell Night! This is a great opportunity to share a favorite specimen, an interesting story, or perhaps your greatest challenge for all to see and hear. The only requirement is to be hobby related (rock, mineral, jewelry). You will be allocated between 5-10 minutes depending on number of participants. RSVP is not required but it would help Ruth plan the evening if you let her know in advance (419-381-0253).

## CONGRATULATIONS JUNIORS!

We had our first meeting with three enthusiastic members. We studied crystals, looked at samples, and made crystal gardens. Martha, Emily, and Ben were eager to learn and eager to share. John Kalinoski came to assist. At the end of the meeting, we talked about what else they would like to do, and assembled a priority listing which helped determine the topics for the next eight meetings:

- ★ March 14<sup>th</sup> - Soapstone Carving
- ★ April 4<sup>th</sup> - Healing Stones
- ★ May – State Rocks
- ★ June – Fossils
- ★ July – Flintknapping
- ★ August – Cabbing
- ★ September – Fancy Gem Trees
- ★ October – Wirewrapping

Although I had intended to have the meetings on the first Saturday of each month, we have a schedule conflict in March due to the MSHA Training, so the junior meeting will be on March 14<sup>th</sup>. Because I still need to confirm available dates, I haven't made specific plans further than April. We're still feeling things out as to which Saturday is best for everyone. Be sure to check your Rocky Reader each month to confirm the meeting date. If any of our adult members would like to contribute their time, materials or expertise in any of the above listed areas, feel free to contact me. Jerri Heer – 419-344-9999.

Remember, adult members can sponsor junior relatives (who are not their own children) to join. If you have any questions, call Jerri Heer – 419-344-9999.

## MSHA TRAINING

There is a MSHA class is tentatively scheduled for March 7<sup>th</sup>. The class will start about 10 am in the craft center. The class is good for renewals and new certifications. Many quarries require this certification to enter, so if you're interested in field trips, you should attend. Cost is \$28. Contact Harold Burluson (419-533-7341) to confirm date & time.

Deadline for the April Rocky Reader is March 23<sup>rd</sup>. Call 419-861-0147 or email [editor@rockyreader.com](mailto:editor@rockyreader.com).

## **PRESIDENT'S MESSAGE**

Okay, so I've managed to get this out two months in a row. Does that qualify as a trend? Maybe not but I'll keep working on it!

Our first Juniors Meeting was a success. Although only one family of Juniors came; they had fun! ... And after all, isn't that the point? We'd be happy to welcome more, so if you have Juniors, in your family or extended family, bring 'em on over! The kids selected topics for the next 8 meetings – you'll find more info elsewhere in the Rocky Reader.

On to my "Message" for this month: When my family first joined this organization, I tried just about everything; gemcrafting, metalcrafting, carving, gemtree making, rock collecting and more. I was amazed at the variety of options out there! The good news is .... They're still available!

Last month, I was asked to open up for Gem crafters one evening, because Chet King had another commitment. I haven't been to a Gemcrafter's meeting for years, but I am pleased to say that I was welcomed back without question, and better yet – I remembered what I was doing to! Although I have all the equipment I need, it is no longer set up at my home because my teenagers took over the basement where the shop was set up and everything was dismantled and put away. I knew that I could go to the Craft Center, but never made myself take the time to go at the right time.

My point is that as Club Members, we have incredible opportunities available to us, as well as a wealth of fellow members willing to share their expertise and friendship. Make the effort to join a group meeting. Get back into the hobby, if you've let it slide. Try something new if you've been thinking about it. It's worth your time and the effort. I challenge you to look at the Club Calendar, select something you've wanted to try, or thought about returning to.... And just do it! You'll be glad you did. I've never met a group of people more welcoming, helpful, friendly and willing to share, than in the Toledo Gem & Rockhound Club. I'm proud to be a member and happy to participate in as many ways as I can.

See you at a meeting!

*Jerri A. Heer*

## **2009 SHOW COMMITTEE**

The Show Committee met to get the ball rolling for this year's Show. Our Committee Chairs are:

Show Co-Chair – Suzanne Shimatzki & Jerri Heer  
Advertising – Mike Mayers  
Exhibits – Nancy Grove  
Dealers – Jerri Heer  
Silent Auction – Harold & Carla Burluson  
Set-up and Truck – Harold & Carla Burluson  
Touch and Feel – Lucille Burgy

Hospitality – Su Drake  
Kid's Kits – Ed Reynolds  
Scholarship Raffle – Linda Scharer  
Kid's Area – VACANT  
Volunteer Scheduling – VACANT  
Announcements - VACANT

Thanks to those people who have already committed to making this year's show a success. As you can see we still have a couple of positions to fill! Anyone who would like more information about what a position entails or would like to offer ideas & suggestions for the show, please call or email Suzanne (419-376-2650) or Jerri (419-344-9999). The committee will meet prior to the club's business meeting during the following months: April, June, July, and August.

## **VOLUNTEERS NEEDED**

We must pickup all donated material from Delano's Barn in Adrian, MI before they move at the end of March. A tentative pickup date has been scheduled for Sunday, March 15<sup>th</sup>. Jim Leslie is looking for several volunteers to load/unload the donated material. It is estimated to fill a couple trucks. Contact Jim Leslie to confirm date/time and for directions (517-265-6284).

## SPRING OPEN HOUSE

The spring open house will be held May 16-17. Table space is available on a first come first serve basis for anyone wanting to sell. Setup will be Friday, May 15 from 6-8 pm only. Volunteers are needed during the event to help teach gem trees. Contact Carla Burleson (419-533-7341) for tables or to volunteer.

## MARCH KETUCKY FIELD TRIP

Don't miss the Kentucky field trip with Joel Vicary March 31 - April 5. It's sure to be an adventure collecting rocks and fossils in riverbeds, quarries, and road-cuts! MSHA certification is required, so if you don't have a current certificate check out the posting for the MSHA class. Contact Harold (419-533-7341) with questions.

## COMING EVENTS

### from Chetty King's Flyer Table

**March 6-8.** Eastern Indiana Gem & Geological Society Show. Wayne Co. Fairgrounds, N. Salisbury Rd, Richmond, IN. FRI 9-6, SAT 10-6, SUN 11-4. Adults \$4, Seniors \$3, Students & Children \$1. Door prizes, silent auctions, displays for Boy Scouts, demonstrations. Contact John LaMont at (765) 647-4894 or email Midwestchar@peoplepc.com

**March 13-15.** Michigan Gem & Mineral Society 47<sup>th</sup> Annual Show, "Mine in '09". Jackson County Fairgrounds Fair Event Center, 200 W. Ganson St., Jackson, MI. FRI 10-7, SAT 10-7, SUN 10-5. Adults \$3, Seniors \$2, Students 50 cents, Children free. Vendors, demonstrators, beading mini classes. Contact James Bretes at (877) 872-8471 or email crossroadspottery@sbcglobal.net. [www.geocities.com/michgemandmineralsociety/](http://www.geocities.com/michgemandmineralsociety/)

**March 28, 10AM-5PM.** 37<sup>th</sup> Annual Metro Rock Swap hosted by the Midwest Mineralogical & Lapidary Society. Held at the Democratic Club of Taylor, 23400 Wick Road, Taylor, Michigan. Swap, sell, or buy minerals, fossils, jewelry, beads, crystals, slabs, lapidary items, related books, etc. Open to the public. Free Admission. Free Parking. Refreshments available. Tables are \$15.00 per 8-foot table. For table reservations and information, call (734) 525-1684.

**April 4-5.** Stark County Gem & Mineral Club Show, "A 'Flintastic' Weekend". Stark County Fairgrounds, 305 Wertz Ave N.W., Canton, OH. SAT 10-6, SUN 10-6. Collectors' displays, dealers, minerals, fossils, finished jewelry, lapidary arts, mineral identification, children's games, silent auction, door prizes. Contact Dave Behringer at (330) 830-1578 or email darojreg@att.net.

## IN THE NEWS

Workers discovered fossils while excavating an underground parking structure in Los Angeles. The discovery is the largest known repository of Pleistocene ice age fossils. Among the finds is a nearly intact skeleton of a Columbian mammoth. Researchers are also excited about the smaller fossils found as they may provide crucial information about life during that period. For complete story details, visit...

<http://www.latimes.com/news/science/la-sci-fossils18-2009feb18,0,7775847.story>



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## **A Light in the Sky**

by Judith Washburn, Geology Chair  
reprinted from MWF News, January 2009

Residents in Manitoba, Saskatchewan and Alberta, Canada, witnessed a huge fireball that lit up the night sky over the three provinces on November 20th. Many reported hearing sonic boom rumblings and said the fiery flash was as bright as the sun. University of Calgary scientist Alan Hildebrand, who also coordinates meteor sightings with the Canadian Space Agency, estimated the flash, a meteor, could have been seen from as far as 434 miles away, into the northern United States. Widely broadcast video images of the meteor showed what appeared to be a speeding fireball that became larger and brighter before disappearing as it neared the ground. The meteor contained about one-tenth of a kiloton of energy when it entered the earth's atmosphere, roughly the equivalent of 100 tons of the chemical explosive TNT. "It would be something like a billion-watt light bulb," said Hildebrand.

The meteor has captured the imagination of sky watchers around the world. People telephoned the CBC newsrooms in Edmonton and Calgary to talk about what they saw. "It was a really big flash, lit up the sky, and there was this huge, flaming fireball falling from the sky," said Rowyn Windsor, 12, who lives on the Canadian Forces base in Cold Lake, Alberta, about 350 kilometers northeast of Edmonton. "This huge light in our kitchen window lit up our whole kitchen," said Sabrina Schneider, who lives just outside Lloydminster on the Saskatchewan-Alberta border. "It kinda flashed a couple of times. It was really bright. It was a different light than lightning. We weren't really sure what happened ... got up to look out the window, and all of a sudden, we heard this rumbling." Schneider said her sister saw the meteor while she was driving past North Battleford, Saskatchewan. Hildebrand and a graduate student, Ellen Milley, have recently found several meteor fragments near the Battle River along the rural Alberta-Saskatchewan border, near the city of Lloydminster. They said there could be thousands of meteorite pieces strewn over a 7-square-mile area of mostly flat, barren land, with few inhabitants.

- Adapted from various newspaper articles and Internet sites.

## **Tumbling Tips**

By Dan reprinted from The Slate

### **How do you know when to change grit size?**

In a vibratory tumbler you start out with medium (220) grit, not coarse (100) grit, then go to 600 grit then polish. If you ever buy a grit kit, make sure it's for vibratory, no 100 grit. You can add a step and go to 320 or 400 before 600. It saves a little time, not much. The way you know when to change is when you've gotten them as smooth as you want them to be. That means remove pockets, chips, etc. If most of the pieces you are tumbling look good but there are just a few that need more work, go ahead and switch to the next grit. Run the ones that need more work through the next batch to finish them. You want the stones to be pretty good before switching from the 220 grit or they'll take forever in the 600. This is the long step.

My two vibratory tumblers usually take about 3-4 days on 220, 12 hours on 400, 1 to 1 ½ days on the 600 and 1 day (change polish at 12 hours) for the polish. I change the grit/polish every twelve hours, washing the muck out into a 5-gallon bucket to settle/evaporate. You can pour off the clear water on top after it sets several days. You don't want to dump the muck down the drain unless you like plumbers. The rest will evaporate and can be put in the trash.

### **Can you save the grit and use it again for the next batch of rock?**

If you are doing it right there won't be much grit left to save. The grit should break down as you tumble the material. I always had a little grit left on the 220 run that just didn't go away until I paid a little extra for a graded 220 from Ebersole's in Wichita, Kansas. It's about 50 cents a pound more than the ungraded and worth it for me.

Other vibratory tumblers may not have the same problem. You'll find out, I buy 5 pound boxes, which do quite a few loads and only pay about \$3/pound. Not worth saving any doesn't break down. If you try to use coarse (100 grit), it will sink to the bottom and stay there in just about every vibratory I've seen.

### **Why do they recommend that a separate barrel be used for polishing?**

Contamination from the grit. Somehow you almost never get it all, no matter how hard you try washing it out. Contaminations between grit size changes isn't as crucial but try to wash your stones & barrel well anyway.

### **Do you put polyethylene pellets in the final polishing stage with a vibratory tumbler?**

You can. Always change the pellets between different grit sizes. Re-use the pellets only with the same grit size. The grit becomes imbedded in the pellets and, again, you can get contamination. I bought a bag of pellets several years ago. Before I started to use it I mentioned to a dealer friend that I'd bought them. He went out in his garage and came back with a gallon milk jug full of ¼ to ½ inch pieces of agate screened from the good stuff.

I have yet to open the bag of pellets. You want small stuff to help the tumbling, as long as you have that, you don't need pellets. I've added to the gallon jug and my wife sifts through and takes out stuff to make things like gem trees if I let her near it. It gives you a reason not to throw away the small pieces when you are out hunting. You may never need pellets. The chips don't have to be changed between grits. One caution, you should always tumble stuff of like hardness. Don't tumble obsidian with agate, etc. The most common thing people tumble are quartz-based; agate, jasper, quartz, etc. which are all pretty much the same hardness.

(From 9/08/2008 Canaveral Moonstone via Rock Chips 7 & 8/2000, GCLFS 09/08)

### **Dopping Methods**

by Roger K. Pabian, MWF Lapidary Chair  
reprinted from MWF News, February 2009

Dopping is that first problem area. Why doesn't the stone stick to the stick?

#### **THE STICK:**

Hardwood sticks work best. They don't absorb water quickly. If you use a pine dowel, paint it to slow down water absorption. If the stone comes off of a stick, go to a new, dry stick, as the old one will still have some water in it, and it will pick up some water when the stone pops off. The stick needs not be any longer than the width of the palm of your hand. **Think of the stick as an extension of the stone.** Hold the stick up high such that your fingers come in contact with the stone. That minimizes vibrations and bouncing by the stone, and the stone will be less likely to fall off of the stick.

The dop stick doesn't have to be round. If you are shaping a stone that has a large length to width ratio (greater than about 2:1, such as in a marquis), cut a stick from a lath or rectangular slat of wood such that the stick extends almost to the tips of the stone. There will be no great pressure on the ends of the stone, and that will help prevent the stone from coming off of the stick.

#### **THE WAX:**

Most lapidary wax is now the 140 degree wax; that is, it melts at 140 degrees, and it is usually dark green. You have to get the wax hot enough that it readily flows, but not runs. Heat the stone, as well as the wax, and the stick. There are fancy dop pots that are available from lapidary supply houses, but I use an old slow cooker base that I picked up at a Goodwill store for \$1.00. I heat the stone on the cooker base. I usually start the wax beforehand to give it time to melt. Heat the stone slowly, dip the end of the stick in the wax, apply the stick to the stone, lift off, and form the wax around the stick with moistened fingers to prevent the wax from sticking to you and burning you. If you use the 170 degree wax, you have to heat it up to 170 degrees otherwise it will not stick any better than the cooler 140 degree wax. Keep in mind that wax for dopping cabochons will not work for dopping stones that are to be faceted.

#### **SUPER GLUE AND ROOFING NAILS:**

If you are dopping small stones, an easier method than using wax, is to use super glue and roofing nails. Set the stone in a base of modeling clay, and get it level. Put a drop of super glue on the back of the stone and then attach a roofing nail to it. Hold the stone in a pin vise. To remove the stone, heat the nail with your alcohol lamp. It will drop off in a couple of minutes.

## TG&RC MEETING MINUTES – February 18, 2009

After the Metalcrafters silent auction, the meeting was called to order at 7:51 pm with the Pledge of Allegiance. President Heer then presented the 2008 President's Award to Kathy Peterson for her contributions to the club.

**Secretary's report:** Jim Leslie moved to accept the minutes of the January meeting as printed in the Rocky Reader. The motion was properly seconded and the minutes as printed were approved.

**Treasurer's Report:** Steve Shimatzki said the club is doing pretty good. He noted that the new officers and Board members have their badges for the current year. Steve also said engraving is overdue on the list of President Award honorees but he has been unable to find the name of the 2004 recipient. Lyn Kalinoski said she will check the old minutes. Suzanne Shimatzki made a motion to accept the Treasurer's report. The motion was properly seconded and the report was approved.

**Board Meeting:** President Heer reported on the recent Board meeting and brought several items to the membership for approval.

1. The Board recommended the proposed budget for 2009 be presented. The Treasurer passed out copies of the budget and noted that the biggest change was the amount budgeted for natural gas. John Kalinoski moved that the club accept the proposed budget. The motion was properly seconded and the budget was approved.
2. The second item of business from the Board meeting was the adoption of ad rates for the Rocky Reader. The Board adopted the policy that:
  - ads will be no more than 2 business cards in size (approximately ¼ page)
  - Ads will be hobby related
  - Ads can only be placed by a member
  - Ads will be print ready copy submitted
  - Ads will be subject to Board approval.
  - The cost for an ad will be \$5 per issue or \$60 for the year.

Ed Reynolds had a question about how show notices from other clubs and estate sales ads would be handled. President Heer answered that those are already allowed in The Rocky Reader as special notices but they aren't the same as business ads. Tom Morak made a motion to accept the Board's proposal. The motion was properly seconded and the policy was approved.

**Old Business:** The remaining material from the Delanos' barn in Adrian, MI needs to be removed by the end of March. Cleanout was scheduled for Sunday, March 15 with a rain date of Sunday March 22. Jim Leslie is in charge and volunteers should contact Jim.

**Audit Committee:** Pete Peterson reported on the annual audit of the Treasurer's books. The books are balanced and the club finished in the black for 2008. He suggested in the future moving some money from the checking account into a CD.

**New Business:** President Heer reported that the club received thank you notes from BGSU and UT for the scholarship contributions.

March meeting; The program will be a show and tell. People can bring in interesting specimens, slides, information on trips or anything hobby related. Anyone interested should contact Ruth Jacobs.

**Juniors:** President Heer reported that the juniors program started February 7<sup>th</sup> and the current plan is to have a meeting once a month on the first Saturday of each month. Eligible juniors are children of club members ages 6-18 or club members can sponsor a relative (niece/nephew, grandchild). If the parent is not a club member (sponsored) then the junior would have to become a single member.

### Group reports:

**TBG:** Chet King reported that the May plant sale will be the next club activity for TBG. The sale is the weekend of May 15-17. Workers are needed for Thursday, May 14 to move plants, and Friday through Sunday to take plants to customers' cars. The club gets a lot of volunteer hours credited from the plant sales and the club needs 200 hours each year. From May through August there will be kid projects the 1<sup>st</sup> Sunday of each month and again the club will get volunteer hours credited for these activities. In addition the shop will be open the first Sunday of each month,

**Gemcrafters:** Chet King said the second Wednesday in March there will be a class on the flat lap so people can learn how to use the equipment. There may be other classes upcoming on the second Wednesday of the month.

**Metalcrafters:** Deb Hoffmaster reported that the group meets the 1<sup>st</sup> and 3<sup>rd</sup> Sundays at 1:30 and the 2<sup>nd</sup> and 4<sup>th</sup> Wednesdays at 6:30. She has 2 spots remaining in the next basic setting class.

**Beaders:** Nancy Grove said the first meeting after the winter break will be March 16<sup>th</sup> at 6:30pm at the craft center.

**Faceteers:** No report.

**Rocky Reader:** The deadline for copy submission is Monday, February 23<sup>rd</sup> for the March issue.

**Membership:** John Capuano said there were 34 members signed in, including 3 juniors and one new member.

**Sunshine:** Lucille Burgy reported that former member Eleanor Conrad died February 1, 2009. She was 89 years old.

#### Thelma Postlewaite's Family News

##### March Birthdays:

Ron Swartz	3-3
Deneen Dilworth	3-4
John Henning	3-9
Rosanne Florea	3-12
Frank McQueary	3-13
Jennifer Heer	3-16
Baird Bruns	3-31
Emil Stender	3-31

**Field Trips:** Harold Burlson said there is a MSHS class tentatively scheduled for March 7<sup>h</sup> at the craft center. The class will start about 10 am. The class is good both for renewals and original certification and the cost is \$28. He asked if anyone had a projector screen the club could borrow. John Kalinoski offered to donate a screen to the club.

**September Show:** President Heer said the kids' area still needs a chairman. The chair will be in charge of setting up kid games and classes. Mike Mayer is going to do advertising and the remainder of the present committee chairs will continue.

**Open House:** Carla Burlson has signup sheet for the Open House table space. Set up will be for two hours only on Friday night May 15 from 6-8 pm as per contract with TBG. Table space is on a first come basis. Carla needs volunteers to help with gem trees for kids.

There being no further business, John Kalinoski moved to adjourn. The motion was approved.

Respectfully submitted, Lyn Kalinoski, Secretary

### CONDOLENCES

Former member Eleanor Marie Conrad passed away on Sunday, February 1, 2009 in Bend, Oregon. She was 89 years old. Our prayers are with her family.

Current member William J. Newell passed away on Wednesday, February 18, 2009 after a long fight with heart disease and Reiter's Syndrome. He was 71 years old. Our prayers are with Scheran and their family.

## CLASSES

The following schedule is a listing of upcoming classes. To enroll, please **send all fees to the instructor**. Fees must be received, at the latest, **three weeks prior to the class** however, many classes fill up well in advance of this deadline.

**March 14, 10AM.** Colored copper jewelry. Instructor Debra Hoffmaster. Fee \$20.00. Learn to use colored pencils on copper to dress up your jewelry.

**April 24, 25, 26. Friday 6-9PM, Saturday 9-5PM, and Sunday 9-5PM.** Basic setting. Instructor Gerry Lewy. Fee \$150.00 - 2 places remaining. (please send fee payment to Debra Hoffmaster to register). This class will introduce students to basic principles of setting faceted stones. The topics covered will include: 4 & 6- prong round brilliant settings, Bezel setting, Gypsy or Flush setting, Princess setting &, time permitting, Channel setting. For a complete course syllabus and Gerry Lewy's resume, contact Debra Hoffmaster at [dhoffmaster1@verizon.net](mailto:dhoffmaster1@verizon.net) or 517-265-6284. In March, if the class is not yet full, it will be opened to non-club members, so, to preserve your place, register early. Class fees Include sterling silver practice rings.

**May 16, 2008. 10AM.** Celtic Visions bracelet. Instructor Kathy Petersen. Fee \$70.00. This is a modified Helm pattern and a good starting point for a number of other patterns.

## METALCRAFTERS

Thank you! Thank you to all who brought donations and who bought from the Metalcrafter Silent Auction.

Make sure to note the BASIC SETTING class being offered in April by master setter Gerry Lewy. There are only two spaces left. This is an unparalleled opportunity to improve your abilities and to learn a marketable skill from a real master.

The metalcrafters meet on the first and third Sunday at 1:30 and the second and fourth Thursday at 6:30. Please check e-mail for cancellation notification one hour prior to the meeting if the weather is bad. 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. When you do so, please leave your full name and contact information.

## GEMCRAFTERS

The gemcrafters meet on Wednesdays (except the third) at 7PM in the craft center. Chet will be giving a class on the flat lap during the March 11 meeting for those interested in learning how to use the equipment. Chet can give classes on any lapidary topic. If there is something that you are interested in learning, contact him.

## FACETEERS

The faceters met Feb. 11 at the home of Dick and Arline Bower. The January meeting was cancelled because of the bad weather and this one was almost as bad with all the wind and rain. In spite of the weather we had a good attendance with lively discussion of the gems that had been cut and of course we had refreshments. Diagrams were passed out and everyone will cut the same stone next month with any material of their choice. The meeting will be Wednesday, March 11, at the home of Don and Betty Ault.

## BEADERS

The beadars meet on the 3<sup>rd</sup> Monday of the month (March 16<sup>th</sup>) at 6:30 PM in the craft center. Nancy Grove will provide instruction and materials needed for the meeting. The meeting is open to all skill levels.

## JUNIORS

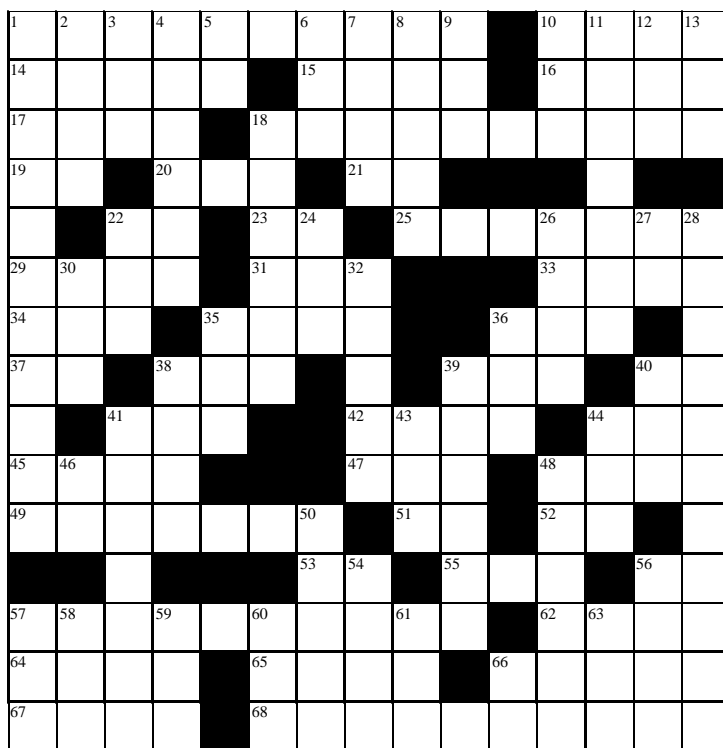
The juniors group will meet Saturday, March 14 at the craft center. The meeting will cover soapstone carving. Don't forget the deadline to enter the poster contest in April 1, 2009. See February's issue for contest rules.

# Mineral Miscellany

## ACROSS

- 1 ability to break a mineral
- 10 what coprolites are fossils of
- 14 planet where we find minerals
- 15 opposite of an outee
- 16 said when you drop the Hope Diamond
- 17 means rich
- 18 calcite displays double \_\_\_\_
- 19 country road
- 20 the Sun King
- 21 where you find josephinite
- 22 lightweight metal
- 23 a bachelor
- 25 where diamonds are sold
- 29 useful for finding minerals
- 31 means the same
- 33 a girl, not a caribou
- 34 period of geologic time
- 35 tetragonal (ab)

- 36 Geographic Info System
- 37 \_\_ Dog, \_\_
- 38 your old lady
- 39 atmospheric pressure unit
- 40 color of malachite (ab)
- 41 \_\_\_\_ Fawkes Day
- 42 over the engine of a car
- 44 Chinese guy and a suit
- 45 had a farm \_ \_ \_ \_ O!
- 47 Org. of African Unity
- 48 a carbonate mudstone
- 49 thorium silicate mineral
- 51 peninsular state
- 52 Internet Provider
- 53 ruthenium
- 55 geological time
- 56 Attorney General
- 57 stones used on knives
- 62 Zulu military unit
- 64 long tube
- 65 make a duet
- 66 mountains in Peru
- 67 black silica rock
- 68 studies gems



## DOWN

- 1 magnetite type magnet
- 2 small sudden attack
- 3 Intern'l Red Cross
- 4 volcanic ring islands
- 5 Islamic B.C.
- 6 not the truth
- 7 short for more data
- 8 land, \_\_\_\_ firma
- 9 cheers
- 10 drunken \_\_\_\_
- 11 used to remove minerals
- 12 A.D., \_\_\_\_ Domini
- 13 2000 pounds
- 18 corundums
- 22 large simian
- 24 supersonic plane
- 26 blocks a stream
- 27 rock (ab.)
- 28 studies rocks
- 30 long \_\_\_\_
- 32 orthorhombic
- 35 nice \_\_\_\_
- 36 type of chisel
- 38 Yosemite naturalist
- 39 how synthetic gems come
- 40 Green River fossil fish
- 41 measuring the Earth

- 43 clumsy guy
- 44 useful for finding gems
- 46 International Harvester
- 48 produces gold, copper
- 50 wear down rocks
- 54 E Pluribus \_\_\_\_
- 56 Planet of the \_\_\_\_
- 57 what owl says
- 58 affectionate name
- 59 Terlingua calcite state
- 60 price label on mineral
- 61 = Employ Opportunity
- 63 Mount Desert Island
- 66 Japanese blue and green

LAST MONTH'S SOLUTION: Some Fossils



# March

# 2009

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1 Metalcraft 1:30p	2	3	4 Gemcraft 7:00p	5	6	7 MSHA Training* 10:00a
8	9	10	11 Gemcraft 7:00p  Faceteers 7:00p	12 Metalcraft 6:30p	13	14 Juniors 10:00a  Colored Copper Jewelry 10:00a
15 Metalcraft 1:30p  Donation pickup @ Delano's *	16 Beaders 6:30p	17	18 <b>Club Mtg 7:00p</b>	19	20	21
22	23	24	25 Gemcraft 7:00p	26 Metalcraft 6:30p	27	28
29	30	31 Kentucky Field Trip starts				

*\*Must verify date and time with event coordinator.*

**Rocky Reader Editor  
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