



# Eastern Indiana Gem & Geological Society

# February 2018

# ROCK PICKINGS

P.O. Box 1724 • Richmond, IN 47375 • [eiggs.weebly.com](http://eiggs.weebly.com) • [facebook.com/EasternIndianaGemGeologicalSocietyEIGGS](https://facebook.com/EasternIndianaGemGeologicalSocietyEIGGS)

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### Newsletter Editor

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### Memberships:

Annual dues  
\$15 Individuals  
\$20 Families

### Please send dues to:

EIGGS  
PO Box 1724  
Richmond, IN 47375

**1** Next meeting: Thursday, March 1, 6 p.m. at the Kuhlman Center

## PRESIDENT'S MESSAGE



Hi, Fellow Rockhounds,

I wanted to say thank you to all who came and volunteered for the work nights. You created items for the silent auction area that will help during the coming year. Plus, we had a lot of fun doing it.

It's a very exciting time for our club. Our gem and mineral show is just a week away, and I look forward to seeing all of our members, as well as our vendors. You all have worked very hard for this show, and it's truly appreciated.

Also, keep in mind the more raffle tickets we sell, the more money we make for the scholarship fund, and the more we can help young STEM students in their pursuit of degrees.



Lisa Morris photos

So the upcoming schedule is:

**Set-up:** Wednesday, February 28 at the Kuhlman Center

**Dinner:** Thursday, March 1, 6 p.m. at the Kuhlman Center

**Show:** Friday, March 2, 10 a.m. – 6 p.m.

Saturday, March 3, 10 a.m. – 6 p.m.

Sunday, March 4, 11 a.m. – 4 p.m.

I look forward to a great show and seeing you all at the Kuhlman Center.

*Deb Chagares :)*

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Raffle items for show



Labradorite pendant by Susan Kuhlman

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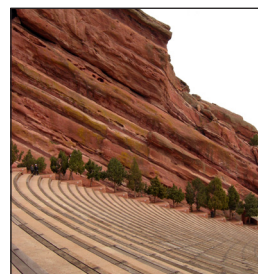
4-H volunteers needed



Mona Jones helps out at 4-H event

### PAGE 8

Red Rocks Amphitheater



Music in a natural amphitheater

### PAGE 11

GeoFest photos



Caleb Teagarding enjoys GeoFest



# MEETING MINUTES: FEBRUARY 1, 2018

MONA JONES, SECRETARY

Regular meetings held on the first Thursday of each month at the clubhouse at 5199 National Road West; Centerville, IN 47330. Guests always welcome.

**ATTENDANCE:** Pam Beneker, Judy Burton, Deb Chagares, Scott Gibson, Erna Jacob, Mona Jones, Susan Kuhlman, Mark Lisota, Marty Lucas, Jim Lucas, John LaMont, Nikki Merrill, Tim Merrill, Lisa Morris, Angie Shaffer, Hailee Shaffer, Dave Straw, Joe Wirrig

**I. Call to order** 6:36 p.m.

## II. Introductory comments

- Thanks to those who came and worked on our work night. Accomplished quite a bit. Had a good time making things for the silent auction. Dave Straw did a great job at the craft night; Be sure to look for the pictures Judy Burton took of the evening on Facebook.
- Members signed get well cards to Mike Ragen who fell but is on the mend and plans to be at the show and for Estel Jones recovering from pneumonia. The *Gad-About* did a really nice full page article with pictures about the Gem and Mineral Show.

## III. OLD BUSINESS

- A. Membership renewals:** Please renew your membership; If you don't know if you have paid, a list is available from Angie Shaffer or in the newsletter. Make sure you get your membership paid. All memberships run January through December, so if you haven't renewed yet, you need to do so. People who have not paid their dues by the end of March will be deleted from our rolls and our Facebook group.
- Facebook: please remember we have a closed group for club members and a public group. Please be sure you add both if you are on Facebook.

**B. Committees and committee chairs:** John Morse and Joe Wirrig are going to be our shop maintenance chairs i.e.: replacing wheels, flat laps etc. Scott Gibson is going to be our building and grounds maintenance chairperson. Club members will be the volunteer pool. We are looking for some to be the chairperson for trips: to plans club trips. Let Deb know if you have an interest.

**C. Shop reminders:** Please use the check off list on the bulletin board for opening and closing of the shop. Tuesday evening will continue to be training night and if there is someone new that is in need of training, they take priority on the wheels.

**D. Refreshment & pitch-in sign-ups:** Sign-up sheet was passed around for the monthly meeting refreshments. Please check the bulletin board in the workshop to see if there are any months not covered. There is also a sign-up sheet on the bulletin board for March 1 pitch-in before the show. Please see the sign-up sheet and bring a favorite dish: the vendors really appreciate the dinner and this is another way to get to know the vendors before the show.

**E. Next Craft Night:** Feb. 13, 5–8 p.m. to be making things for the silent auction. Deb and Judy will be at the laundry mat on the east side (behind Papa Murphy's) earlier in the day (noon-) washing the table linens. If the laundry did the linens it would be \$210, with members doing the linens cost will be \$50 approximately.

**F. 4-H Make & Take Saturdays:** Feb. 17 and March 17 8 a.m.-noon. 4-H members come in, make their geology projects and take them home; we have the supplies.

## Upcoming Events:

- Feb. 13: Silent Auction Craft Night; Clubhouse; 5-8 p.m.
- Feb. 17: 4-H Make & Take; Raper Building; 8 a.m.-noon
- March 1: Vendor Pitch-in Dinner; Kuhlman Center; 6 p.m.
- March 2, 3, 4: Gem & Mineral Show; Kuhlman Center
- March 17: 4-H Make & Take; Raper Building; 8 a.m.-noon
- April 14: Club Clean-Up Day; Clubhouse; 10 a.m.-2 p.m.

We just need to be there to help them, encourage them. It is also an opportunity to promote the gem show. Would like to have a couple more volunteers; please contact Lisa Morris. (For further info please see our website and /or newsletter.)

## IV. NEW BUSINESS

**A. Goals for 2018.** The Board came up with 5 major goals to accomplish.

- 1) Gutters need to be cleaned out, replaced and repaired above the meeting room entrance and the handicap ramp area.
- 2) Apply hydraulic cement to the voids in the cellar door where water is running into the area. This would include getting rid of the dirt at the cellar stairs and applying hydraulic cement there.
- 3) Area where the low down spout tile is draining water- this may be taken care of when the gutters and roof are repaired.
- 4) Brick on the garage, mortar needs to be tuck pointed.
- 5) Roof repair is going to be the big focus; Scott Gibson will be getting estimates on what needs to be done.

Eventually the club will be working at getting new carpet in the meeting room; this will be a later date project. Jim Lucas will be working on lights in garage to improve this system.

**B. Volunteering & service requirements:** we are going to be tracking attendance and service hours to make sure everyone is a member in good standing. Please remember, part of being an active club member is attending meetings and participating in events.

**C. Facebook & web site** – Lisa Morris- If you are on Facebook, please make sure to LIKE and FOLLOW the club's public Facebook page: facebook.com/EasternIndianaGemGeologicalSocietyEIGGS... Pages that are "liked" more, show up in your timeline more and thus more people see them. The Richmond Gem and Mineral Show is listed as an EVENT. Please click that you "like it" and that you are "interested" or "going." Once you do this, your Facebook friends will see the event, too. You can also SHARE the event on your timeline and you can INVITE others.

D. Interest Survey was passed out to let the board know what you would like to see us do over the next year. Groups, classes, trips. Please ask to fill one out if you haven't already or submit your suggestions on the web site.

**E. Clean Up Day** - April 14, 10 a.m.-2 p.m. Club will provide pizza and soda.

## V. Committee reports

**A. Show report** – Judy states that everything is ready for the Gem and Mineral Show set for March 2 -4, She just needs a few more. Please contact Judy to volunteer. Susan Kuhlman donated a labradorite necklace for the raffle. Pictures on Facebook page.

■ CONTINUED ON PAGE 3

# 📢 THANKS TO ALL WHO USED CRAFT NIGHTS TO HELP WITH SHOW

Participants included: Judy Burton, Deb Chagares, Judith Echano Medina, Joy Ingerman, Erna Jacob, Mona Jones, Jim Lucas, Marty Lucas,

Nikki Merrill, Lisa Morris, Nicole Pierce, Patrick Pierce, Angie Shaffer, Hailee Shaffer, Suzanne Siefert, Deanna Smith and Dave Straw.



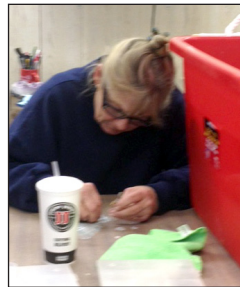
■ Erna Jacob, Judith Echano Medina and Dave Straw work on beading on Craft Night.



■ Deanna Smith, Nikki Merrill



■ Joy Ingerman, Erna Jacob, Judith Echano Medina



■ Marty Lucas



■ Mona Jones, Deb Chagares

*Craft Night photos courtesy of Judy Burton*

## 📅 MEETING MINUTES: FEBRUARY 1, 2018 CONTINUED FROM PAGE 2

**B. Vendor report** – John LaMont states all the vendors are signed in and ready for the March 2-4 show.

**C. Silent Auction report** – Jim Lucas reports several donations were made: tools for Silent Auction from Kingsley North. Joe Wirrig will be lending a case to showcase high end auction items.

**D. Treasurer's report** – Angie Shaffer:

<b>INCOME:</b> \$170.48	<b>DEBIT:</b> \$1,094.75
\$3.75 refund on water bill	\$435 Kuhlman Center rental
\$85 Membership Dues	\$211.14 Stamps
\$1.09 interest	\$248.01 utilities
\$5 soda and water	\$159 Check to Mark Lisota (web site)
\$65 shop fees	\$20 4-H trophies
\$10 donation	\$21.68 printing
\$0.65 misc	

**E. Shop report** – John Morse/Joe Wirrig worked in the shop to put new wheels on some of the grinders, worked on other machines doing maintenance checks. Jim Lucas continues to look into the keyless lock system for the club.

**F. Maintenance report** – Scott Gibson reported on the building maintenance update. Masonry work needs to be done fill in the void spaces around the bricks due to the bricks themselves being unusual in size and shape. This can be done by members; will try to do this on one of the club work days. Gutter is damaged in an area that will be fixed to stop the water flow from getting into the building. This, too, can be done on one of the club work days. The tile that goes underneath

the cement slab was opened up and it now drains out to 40 and down; this will be reevaluated after it rains to see if this takes care of the water getting into the basement. Getting quotes of repairs to the roof, main roof needs painted, metal gutter needs to come off, replacing it with metal to redirect the rain and edge of roof is coming up from the wood that needs repaired.

### VI. Other business

**Scholarships:** This was the first time using an online application, and it was a success with five early applications received. The Board will vote and the winner will be notified by Feb. 23. It will be presented at 11:30 a.m., Sunday, March 4 at the Kuhlman Center. The Board will discuss the possibility of two scholarships. This will be the first year it will be presented as the Eastern Indiana Gem and Geological Society Charlene Reidenbach STEM Scholarship.

**Geo Fest:** is at the Indiana State Museum Feb. 16-18. Club member Harris Precht will be a vendor and member Ann Richardson will be demonstrating in the children's area. More info in newsletter.

**Clean up:** Saws were found not cleaned; make sure you are cleaning the equipment before closing.

**Upcoming class:** In April, photographer Deb Chagares will teach interested members how to more effectively photograph their jewelry, cabs, slabs, etc. This would be useful for anyone interested in selling their creations.

**VII. Motion to adjourn** by John LaMont & seconded by Jim Lucas at 7:42 p.m.



# RAFFLE PRIZES

Tickets on sale now;  
volunteers needed to sell tickets

Lovely labradorite features prominently in this years Richmond Gem and Mineral Show raffle. A small investment could help you win a 20 pound display piece of multi-colored labradorite. This 11 x 6.5 x 4-inch piece shimmers in the light and exhibits a play of gold, copper, blue and green colors.

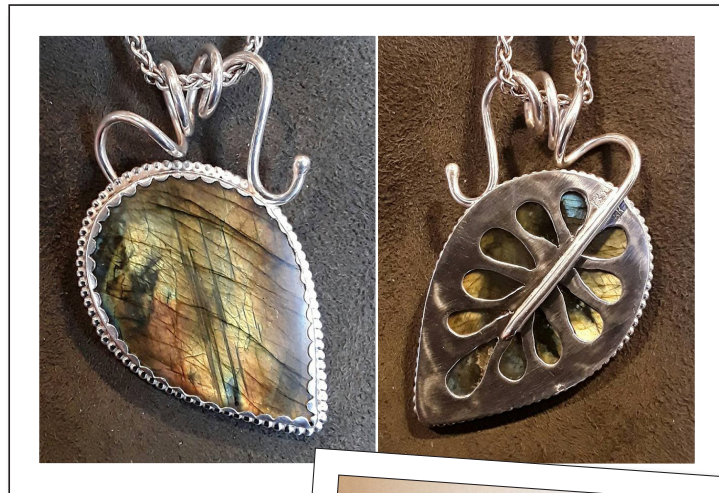
The second raffle item is a one-of-a-kind labradorite and sterling silver pendant created by club member Susan Kuhlman.

The front shows off the stone's shimmering labradorescence, while the back's elaborate cut-out leaf pattern further features the stone's play of color.

You may buy raffle tickets in advance from Judy Burton or you may buy them at the show, March 2, 3 and 4. **Tickets are \$1 each or six for \$5.**

If you would like to sell tickets prior to the show, contact Judy by phone (937) 339-1966 or e-mail [jleeburton@woh.rr.com](mailto:jleeburton@woh.rr.com).

Proceeds benefit the club and help the club provide scholarships for Wayne County high school seniors and Earlham College geology students. --*editor*



Susan Kuhlman photos  
Judy Burton photo

## Labradorite Trivia:

- According to Inuit legend, labradorite fell to earth from the shimmering Aurora Borealis, which lights up the far northern skies.
- It is a member of the feldspar family, and has an almost holographic play of color called *labradorescence*.
- It is composed of layers of material that refract light and can shimmer in shades of blue, green, yellow, gold, copper.
- It was discovered in 1770 in Labrador, Canada and was named for the area by Moravian missionaries.
- It is supposed to be a powerful protective stone, which can strengthen natural energies and protect against negativity and misfortunes.



## Volunteers Needed

There are dozens of ways you can help out with the annual rock and gem show. Whether you work at the Wheel of Fortune table like Faithe Jones, sell hundreds of raffle tickets like Deanna Smith and Jamie Terhaar, or put together a display case, your efforts are needed -- and appreciated.

You could donate to the silent auction, help with the kids activities, demonstrate a skill, sell admission tickets, or help with hospitality or set-up. There are many options: just let Judy know that you want to help.

## Auction Donations Requested

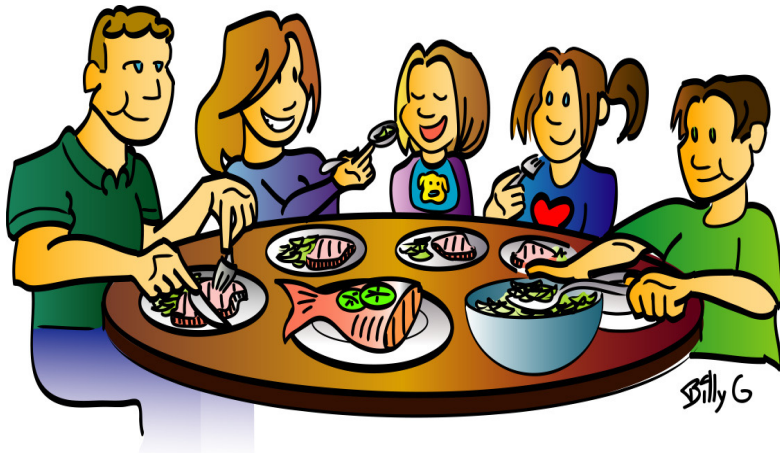
The Silent Auction is a primary fund-raiser for the club. Please consider donating any cord, wire, beads, chains, jewelry findings, finished jewelry pieces, rough rocks, stones, slabs, cabs, tools, kits, equipment -- or anything else that you think people would like to see in the silent auction. If you teach classes for the club, please consider donating a gift certificate for a class.

• to donate contact Marty or Jim Lucas at  
317-607-2102 or e-mail [m.j.88994168@gmail.com](mailto:m.j.88994168@gmail.com)



# ANNUAL ROCK SHOW PITCH-IN HELD AT KUHLMAN CENTER

**Thursday, March 1, 6 p.m.**



Don't forget that the March meeting will be the annual rock show pitch-in dinner at the Kuhlman Center at 6 p.m.

There is a sign-up sheet at the club where members can list what they are bringing. If you can't get over to the club to check it, feel free to bring what you can.

This is a great chance to share a meal with fellow rockhounds, as well as go over the show set-up plans and job responsibilities in order to make the show a success. --editor

## RENEW TODAY: MEMBERSHIP DUES WERE DUE JAN. 1

EIGGS club memberships are for one calendar year, January through December, so it is time for everyone to renew. The club currently has about 104 adult members and exists for those interested in earth sciences; collecting minerals; crystals; fossils; cutting, grinding, and polishing stones; tumbling stones; etching and carving stones; silver inlay; beadwork; and silversmithing. The club hosts an annual rock & gem show and awards scholarships to high school seniors and Earlham College students.

To print the renewal form from the web site, click [here](http://eiggs.weebly.com/membership-form--info.html), then download the form: <http://eiggs.weebly.com/membership-form--info.html>

*Eastern Indiana Gem & Geological Society*

### 2018 Annual Membership Renewal

Please check your membership level \_\_\_ Family Membership \$20 \_\_\_ Single (age 16 & up) \$15

Name(s) \_\_\_\_\_

Street Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Home phone: \_\_\_\_\_ Cell phone: \_\_\_\_\_

E-mail address: \_\_\_\_\_

\_\_\_ To help with club upkeep & projects, I would like to make an additional donation to the club.

\_\_\_ \$10 \_\_\_ \$25 \_\_\_ \$50 \_\_\_ \$100 \_\_\_ Other amount \$ \_\_\_\_\_

*Please print this form & bring it and your payment to the next club meeting  
OR mail the completed form and a check made out to EIGGS to the address below.*

EIGGS Membership • PO Box 1724 • Richmond, IN 47375

## THESE PEOPLE HAVE ALREADY RENEWED; HAVE YOU?

### 2018 Renewals

Adams, Libby  
Applegate, Judith  
Barnes, Bill & Julianna  
Beneker, Lowell & Pam  
Blue, Steve & Jean  
Burton, Judy  
Caulkins, Jim  
Chagares, Deb  
Doe, Lyle

Echano Medina, Judith  
Geyer, Gary  
Gibson, Scott & Emily  
Ingerman, Joy  
Jacob, Erna  
Jones, Mona & Estel  
Killion, Melissa  
Kuhlman, Barbara  
Kuhlman, Susan  
LaMont, John

Lisota, Mark  
Lucas, Jim & Marty  
Lunsford, Jeanette  
Mays, Gene  
Merrill, Tim & Nikki  
Morris, Lisa  
Morris, Richard & Midge  
Morse, John & Mary Ann  
Mueller, Joe & Debbie  
Nash, Lisa & Kyle

Patrick, Randy  
Precht, Harris  
Renfro, Nancy  
Richardson, Ann  
Roestamadji, Jan  
Rudicil, Matt  
Shaffer, Angie & family  
Sieferd, Suzanne & Randal

Spurgeon, Danny  
Story, Clarence & Kay  
Straw, Dave & Linda  
Teagardin, Craig & Jessica  
Vetter, Bob  
Weadick, Sandy  
Wiggans, Teri  
Wirrig, Joe & Sue

# MINE SAFETY & HEALTH TRAINING ON MARCH 24

This is the mine safety program presented by the Mine Safety & Health Administration. If you are interested in field trips to active mines and quarries, this training is often required.

This training session is held in conjunction with the Friends of Mineralogy Midwest Chapter, and the information below is from Randy Marsh, Vice President of Programs, FoM Midwest Chapter.

Scott Kell will be giving his collector-specific training on Saturday, March 24, from 9 a.m. - 2 p.m. in Room 262 of the Barbara Deer Kuss Science Center at Wittenberg University in Springfield, Ohio.

If you are using your GPS, the street address is 315 Bill Edwards Drive, Springfield, OH.



Parking is available directly across the street from the Science Center. Signs will be posted on the doors of the Science Center to guide you regardless of what door you come in.

The Dayton Gem & Mineral Society and Cincinnati Mineral Society are welcome to participate, as are any other local mineral groups.

I would ask that you please respond to this note and let me know if you plan to attend. [marsh.rg@pg.com](mailto:marsh.rg@pg.com) This helps me to create a sign-in sheet for attendants.

Coffee will be available. Please consider bringing some snacks/drinks for yourself and others to enjoy.

This event is free. Students are welcome to attend. --editor

## FRIENDS OF MINERALOGY SYMPOSIUM INVITATION

Dear Mineral Enthusiast:

I am pleased to announce that our sixth annual symposium will be on Saturday, March 10, at Miami University in Oxford, OH. Additional details about the event are below and on page 16. If more submitted talks are received in time, we will update the agenda and share with you.

If you have specimens that you would like to display to help enhance the event for everyone, please respond to this note and I will assist you with this. There is no specific theme for the symposium this year. Specimens that touch on one of the presented topics or that represent something collected in the field are suggestions to consider. Other specimens are welcome.

As in previous years, the Cincinnati Mineral Society will be having a meeting on the prior Friday, March 9. Dr. Peter Megaw will be speaking at the CMS event and at another event at Miami University on Thursday, March 8.



Please pay attention to the parking permits required at Miami University. DIRECTIONS and PARKING: The Limper Geology Museum is located on the Miami University campus just inside the East and West entrances to Shideler Hall on the first floor. Shideler Hall is located west of the intersection of US Highway 27 and State Route 73. See map on following page.

Recommended parking is in Cook Field lot near the bell tower across the road from Shideler Hall. Parking requires the purchase of a permit. Please visit <http://www.miamioh.edu/parking/permits/visitor-contractor-vendor/visitor-permit/index.html>, and then click Purchase Visitor Permit. You will need to display this permit on your dashboard the day of the event. Cost is \$3.

There is no registration for this event, and there is no fee to attend. Feel free to contact me with any questions. [marsh.rg@pg.com](mailto:marsh.rg@pg.com)

Randall Marsh, PhD  
VP Programs  
Friends of Mineralogy Midwest Chapter

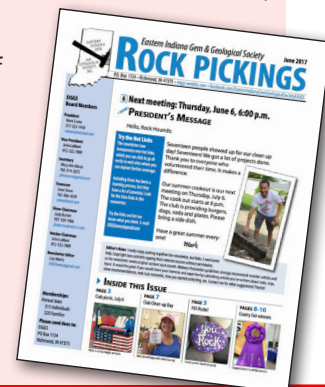


Longtime member and Vendor Chairperson John LaMont celebrates his 90th birthday on February 26. When you see John at the show, March 2, 3, 4, be sure to wish him a very happy birthday!

## Now It's Your Turn

Remember: Rock Pickings is YOUR newsletter, and it needs YOUR articles. Please consider writing about your favorite rocks or minerals, trips you have been on, shows you've attended and other geological topics of interest.

Let me know in advance what you plan to submit, and submit it by the 15th of any month. E-mail articles and photos to [EIGGSnews@gmail.com](mailto:EIGGSnews@gmail.com) or mail them to EIGGS Newsletter, PO Box 1724, Richmond, IN 47375. Thanks!





# GREAT ITEMS ABOUND AT THIS YEAR'S SHOW

No matter what you are in the market to buy, the Richmond Gem & Mineral Show will have something to catch your eye.

Whether you are looking for lapidary equipment, rockhounding tools, gems, minerals, display pieces or jewelry, you will find it at the show. Be sure to check it out March 2, 3, and 4 at the Kuhlman Center.



Lisa Morris & Judy Burton photos



## VOLUNTEERS NEEDED FOR 4-H MAKE & TAKE

Interested club members are invited to promote 4-H geology, March 24



4-H members examine fluorescent rocks for collections. Lisa Morris photo

4-H participation provides great opportunities for students in grades 3-12 to study geology. There are over 25 geology projects for student to choose from, including rock collections, rock art, crystal models, fossil casting and a wide variety of poster and research projects.

In order to help the members explore their different project options, Wayne County 4-H hosts two "Make It; Take It" events in the spring. There, students are able to start, and sometimes finish their projects for the fair.

The first event of this season was held Saturday, Feb. 17. Club members Mona Jones, Nikki Merrill

and Lisa Morris helped about 35 kindergarten and elementary students with their projects. They helped students select rocks for collection projects, helped with rock art and gem tree projects, explained crystal models and even identified stones.

The next "Make It; Take It" Saturday is March 17, from 9 a.m. until noon. We could use at least five volunteers this time to ensure that all of the students get individual one-on-one time.

➔➔➔ If you want to volunteer, contact Lisa Morris at [EIGGSnews@gmail.com](mailto:EIGGSnews@gmail.com)

Click to learn more about 4-H geology projects, <http://eiggs.weebly.com/4-h-resources.html>



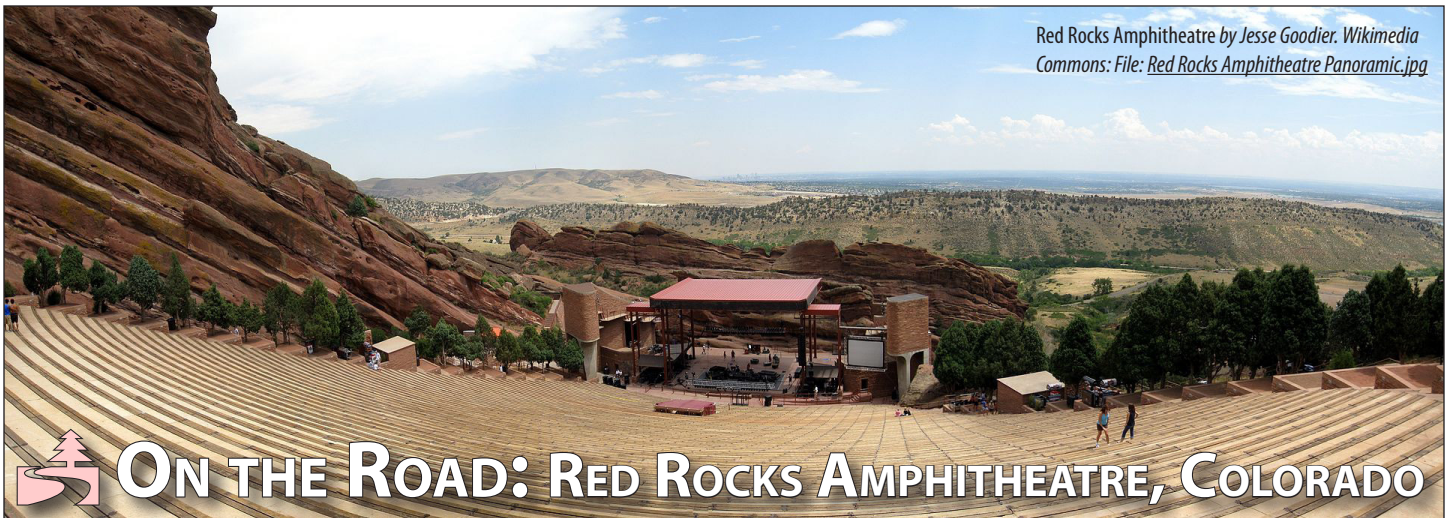
Mona Jones helps 4-H members complete rock art projects at the 4-H "Make It; Take It" event on Feb. 17. Debbie Cates photo



At an after-school 4-H meeting, students pose with their fossil cast projects. At the meeting they also learned about fluorescent rocks. Lisa Morris photo



Nikki Merrill explains fossil casting to students. Debbie Cates photo



## ON THE ROAD: RED ROCKS AMPHITHEATRE, COLORADO

adapted with permission from <http://redrocksonline.com/>

At 6,450 feet above sea level, the 738 acre Red Rocks Park, outside of Denver, Colorado, is a unique transitional zone where the Great Plains meet the Rocky Mountains. The diverse environment allows visitors to see plants, birds and animals of both regions and enjoy recreation options from guided tours, hiking, biking, shopping, dining and concerts.

The park's Red Rocks Amphitheatre, with seating for 9,525, is a geological phenomenon – the only naturally-occurring, acoustically perfect amphitheatre in the world. With Mother Nature as the architect, the design of the amphitheatre encompasses two, 300-foot red sandstone monoliths that provide acoustic perfection for any performance. They also serve as a history book of animal and plant life in the area for the past 250 million years.

### Red Rocks Fast Facts

- Red Rocks gets its color from iron oxide, the same compound that gives blood and rust their color.
- Red Rocks was discovered in an army expedition in 1820.
- There's a 100-foot difference in elevation from the stage to the top row.
- From the top row, you can see all the way to Denver International Airport — about 39 miles away.
- The Beatles' 1964 show at Red Rocks was the only show that didn't sell out of their first American tour.
- U2's 1983 concert film "Under a Blood Red Sky" was a turning point for both the band and the venue.
- An estimated 750,000 non-concertgoers visit Red Rocks every year.

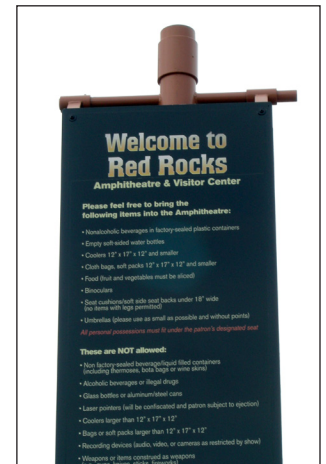
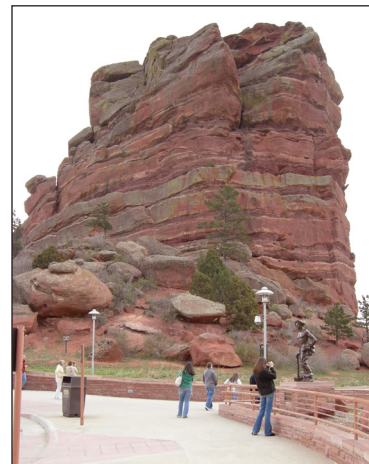
<https://www.denverpost.com/2016/06/02/seventy-five-facts-about-red-rocks/>

"Ship Rock." On the opposite side of the amphitheater stands "Creation Rock." Both monoliths are taller than Niagara Falls, and Red Rocks Amphitheatre was once listed as among the Seven Wonders of the World.

The area, originally known as the Garden of Angels, has attracted the attention of musical performers since before the turn of the century. In the early 1900s, John Brisben Walker had a vision of artists performing on a stage nestled into the perfectly acoustic surroundings of Red Rocks. He produced a

Geologically, gradual earth movement slowly raised the great sandstone ledges from the prehistoric ocean floor, to form the "walls" of the amphitheater. Nearby dinosaur tracks tell of the Jurassic period of 160 million years ago. Fossil fragments show former residents included the giant 40-foot sea serpent, Plesiosaur, the marine reptile Mosasaurus, and flying reptiles.

Some of the rock formations slope as much as 90 degrees, while others tilt backwards. The southern monolith, that bears resemblance to a ship, is named



■ Creation Rock and Ship Rock frame the Red Rocks Amphitheatre outside of Denver, CO. The area is both a park with hiking trails, and a concert venue. Lisa Morris photos

number of concerts between 1906 and 1910 on a temporary platform.

In 1927, George Cranmer, Manager of Denver Parks, convinced the City of Denver to purchase the area of Red Rocks from Walker for \$54,133. The federally sponsored Civilian Conservation Corps (CCC), and the Work Projects Administration (WPA), provided labor and materials for the venture.

Denver architect Burnham Hoyt designed the amphitheater with an emphasis on preserving the natural beauty of the area. Plans were completed in 1936, and the amphitheater was dedicated in 1941, though the actual construction spanned over 12 years. In 2015 Red Rocks Park and the CCC camp received National Historic Landmark status, and the amphitheatre celebrated its 75th anniversary in 2016.



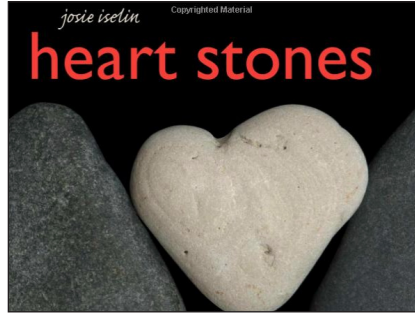


Credit: © www.theLoveassembly.com

## I ♥ Joshua (Tree) & other ♥ formations

These formations are "located in the southern California desert and named after the national park's best-known plant – the Joshua Tree. In spring, cacti and wildflowers bloom in warm vivid colours. Amongst the other natural beauty you'll find here are the uniquely shaped hearts that are scattered throughout the park. Visit the site below to see seven more natural heart formations from around the world."

Read more at <http://www.theLoveassembly.com/heart-shaped-rock-formations-around-the-world/>



Credit: © josie iselin

## Book showcases nature's heart stones

"A heart stone is one of nature's gifts. Heart stones are not rare or precious in the typical sense--a good scour of a beach with any stones at all will usually turn up one or two heart-shaped stones. But heart stones, lifted from their obscurity, with all of their cracks and blemishes, lopsided and imperfect, are simply the best find on any beach. Beachcombers collect them, keep them as talismans, and give them to friends and lovers."

Read more at <https://www.amazon.com/Heart-Stones-Josie-Iselin/dp/0810994658>



Credit: © www.geologyin.com

## Red: the rarest of the diamond types

"Colored diamonds are rare, but experts say the natural red is the rarest. It is so rare such that the per carat price is about 400% higher than the per carat price of other natural colored diamonds. Wikipedia defines red diamonds as those which display red color and exhibits the same mineral properties as colorless diamonds. The color of a diamond becomes red when gliding atoms, during the formation of a diamond, are pressurized."

Read more at <http://www.geologyin.com/2018/02/natural-colored-red-diamonds-rarest-of.html>



Credit: © www.geomika.com

## Volcanic collapse reveals earth's "heart"

"Lava in Hawaii has just the right viscosity to form enclosed tubes within hardened shells, hidden highways for lava to flow across the landscape.

Sometimes the crust collapses, producing a skylight and exposing the lava within. Skylights usually don't last long as heat lost through the hole is enough to cool the lava, solidifying the flow and in-filling the hole."

Read more at <http://geomika.com/blog/2016/02/14/bask-in-the-warmth-of-a-valentine-from-the-heart-of-the-earth/>



Credit: © Mother Nature Network

## Heart rock found in Valley of Enchantment

"Everything about Heart Rock is romantic. Yes, it's shaped like a heart, but it also lies in a place called the Valley of Enchantment, which sounds like something out of a Disney movie. A pool of water fills the natural formation, and there's even a 20-foot waterfall (Seeley Creek Falls) that often flows right through the heart, according to the city of Crestline, California, which calls Heart Rock a 'natural wonder.'"

Read more at <https://www.mnn.com/earth-matters/wilderness-resources/photos/13-natural-rock-formations-look-man-made/heart-rock>



Credit: © TaitallasSeaShore

## Hard-hearted gifts for Valentine's

This is set of 25 genuine Black Sea stones in shape of "heart" or irregular heart naturally tumbled by the tides. These pieces width measured approximately from 1.4 cm to 5.4 cm (approx. 0.5" - 2.125"). Only nature has created these pebbles in whimsy shape of hearts.

Read more at [https://www.etsy.com/listing/590728945/25-heart-pebbles-natural-heart-stones?ref=shop\\_home\\_active\\_7](https://www.etsy.com/listing/590728945/25-heart-pebbles-natural-heart-stones?ref=shop_home_active_7)

# AFMS OFFERS SUGGESTIONS FOR GAINING MEMBERS

by Sandy Fuller, President, American Federation of Mineral Societies  
(February 2018 A.F.M.S. Newsletter)

In this new year, once again, it is time to examine our successes and re-think those things that could be improved.

- Are we continuing to grow at a reasonable pace?
- Are a variety of people involved in leadership roles?
- Are we willing to try new ways of doing things, even if we "already tried that way back when."
- Are we engaging families and children?
- Are we willing to try something different?

Not long ago, I received a communication from a club that had merged with another group just a few years ago. They expressed their disappointment in announcing the demise of their club. After fifty-three years, they could no longer find enough members to continue the group.



I wish I were alone in this unfortunate situation, but this story is repeated each and every year. Another club disbands, perhaps for lack of members or the inability to find someone to lead.

Are people no longer interested in minerals, fossils and lapidary arts? A recent Facebook search shows 37,912 members in the "Minerals and Gems for All" group, and 38,165 members participating in the "Rocks, Fossils & Minerals ID" group. Over 15,000 follow the Lapidary group and over 16,000 share their "Lake Superior Agate" finds. These are just a few of sites that do not allow sales or promote metaphysical properties and their membership numbers are growing rapidly. The interest is there, but how many of these enthusiasts are involved in local rockhound clubs.

One of the popular Facebook sites that I follow will often have requests for help from "newbies" to identify recent finds or strategies to prepare

specimens for display. Based on the photographic evidence, numerous suggestions might be offered.

Occasionally, readers might suggest places to contact for better information, perhaps including information on a local club meeting.

What would your club do if a few guests came to your next meeting, with specimens in hand, looking for information? Would you have time for their questions? Would you match them up to members who share their interests? Could you accommodate their children? Would they want to join your group?

Better yet, is your club on Facebook and other social media? Do members help direct potential new members to your activities and events? Are you extolling the virtues of joining a club as a way to learn and improve skills? Are you responding with positive information to counter misinformation or criticisms of local clubs? Are you supporting each other in these very public forums? Are you in the conversation and able to respond to comments about your local group?

In preparation for one recent event, several club members shared their club posted event on some popular rockhound focused Facebook groups and stayed involved to answer questions and provide information. As a result, over 16,000 Facebook users indicated interest in the event and over 1800 reported that they actually attended. Show attendance actually more than doubled in size and club members scrambled to make quick adjustment to better handle the crowd. What a good problem to have!

So, I hope your New Year resolutions include some actions to reach out to new potential members and find ways to make "newbies" welcome. With the surging interest in rockhounding, our clubs could be overflowing with new members.




**EXHIBIT EXTENDED THROUGH APRIL 22, 2018**

**INDIANA STATE MUSEUM**



**THE POWER OF  
POISON**  
THE EXHIBITION

BY THE  AMERICAN MUSEUM OF NATURAL HISTORY

# MIDWEST FEDERATION URGES CLUBS TO GIVE BACK



by David Root, MWF President (March 2018 MWF News)

When I first got involved with rock clubs I found it very curious that they all had yearly shows for the purpose of raising money. What, I wondered, did these non-profit organizations need all this money for? In a surprisingly short span of time I had become an officer in that first club. I joined other clubs, became an officer in those, and ended up attending far more board meetings than I care to remember.



When one of my clubs needed to change their show location I was the guy who arranged for the new venue and lined up all the dealers. I even audited the books for two of my clubs.

Where I'm going with all this is that I'm a little familiar with rock club finances, and the clubs I have been associated with all have healthy bank balances. Now I know there are operating expenses, facility costs, MWF insurance, AFMS

scholarships, the Endowment Fund, and many clubs do their own scholarships for local students.

And the clubs I have been associated with manage all that and are still able to grow the bank balance every year. This is accomplished by successful shows

made possible by the voluntary efforts of the club members, year after year.

I would like to propose that clubs with healthy bank accounts consider giving a little back to those volunteers who make it all possible. One idea, near and dear to my heart, is lapidary equipment, which is prohibitively expensive for a lot of people. The club can purchase equipment and establish a lending policy to give members a chance to try their hand at some lapidary work.

Another idea is to partially subsidize field trips. The club could pay for a charter bus to the Field Museum in Chicago as an example or purchase nice materials to give out as door prizes. The specifics are not important as long as we do a little giving back instead of always just taking.

I am going to close by discussing an unfortunate situation that developed recently. Those of us who serve the MWF are volunteers and some of the jobs require a lot of work. One of the hardest jobs is that of the Insurance Chair, who works directly with the representative of the insurance company.

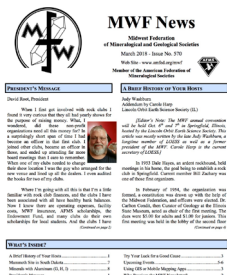
The insurance company has the right to expect honesty from the MWF. The rule is very simple, you pay for the number of members you have. There have been clubs trying to circumvent that simple rule to save money. Our Insurance Chair, being a person of integrity, chose to resign rather than be a party to this. She will not be easy to replace. Let us keep the standards of the MWF high and keep things in proper perspective.

## MWF BULLETIN SUBSCRIPTIONS

by Donna Moore, MWF Secretary (March 2018 MWF News)

According to the policy of the Midwest Federation, the treasurer and the editor in each club should receive the MWF newsletter, plus one other officer designated by the club.

Of course, this was conceived before we started sending out the newsletter by e-mail, so there was a concern about postage costs. Each club is entitled to three printed copies if there is a newsletter editor in your club, otherwise two copies may be sent. If your treasurer or editor is an MWF Executive Committee member, he or she receives the newsletter anyway, and his or her printed copy may be sent to another club member who would like to receive it.

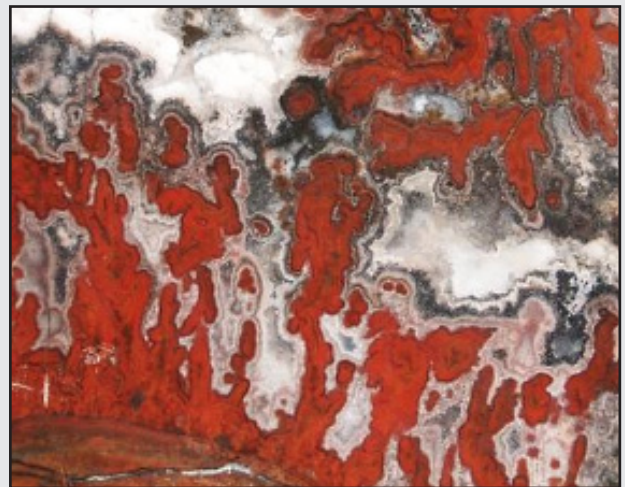


When we started sending the newsletter by e-mail, we asked the state directors to send the e-mail copy to someone in each club who could forward it to anyone in their club who would like to read it.

Now, anyone in your club who wishes to receive an e-mail copy can send an e-mail to Valerie J. Meyers, MWF newsletter editor, and she will add you to the list. Her e-mail address is [vjmwriter@yahoo.com](mailto:vjmwriter@yahoo.com).

If your email address changes, please let Valerie know. We have no way of sending the newsletter to you if we don't have your current address.

The MWF Newsletter is our first line of communication between the MWF Executive Committee and officers and the MWF clubs and members. Please take a moment at your next club meeting to check if this line is open.



Paul Bunyan Agate; Ken Diede photo

## DD Rocks 15% DISCOUNT COUPON

In addition to donating about 20 pounds of rocks for our junior rockhounds and to our silent auction, Ken & Terry Diede of [DDRocks.com](http://DDRocks.com) are offering a 15% discount to the first 20 club members who order from their online shop. Use the discount code **EIGGS** when checking out.



# ON THE ROAD: GEOFEST, INDIANAPOLIS

16th Annual Indiana State Museum Fossil, Gem & Mineral Show



■ At the State Museum, club members Caleb and Henry Teagardin listen to directions for making cement at the IMI booth. *Jessica Moody photo*

■ After a day of learning about rocks and fossils, Henry Teagardin, Caleb Teagardin and Brady Samples pose for a quick photo. *Jessica Moody photo*



■ At the fossil table, club member Ann Richardson discusses fossils with Caleb Teagardin, Brady Samples and Henry Teagardin. *Jessica Moody photo*

■ Viewed from the third floor of the Indiana State Museum, vendors and visitors enjoy GeoFest. *Jessica Moody photo*



## FACETING EQUIPMENT & ROUGH MATERIAL FOR SALE

If you are interested faceting, Joe Wirrig can put you in touch with a person in Dayton who is selling his father's faceting machine and rough materials for faceting.

There are three or four small cabinets of rough materials (all labeled like the one shown). The material in the cabinets is all suited to gemstone faceting or small high-domed cabs as all the pieces are small.

Rough material includes scapolite, imperial topaz, blue topaz, ruby, sapphire, opal, black opal, synthetic opal, apatite, beryl, tourmaline, spinel, iolite, tanzanite, rhodochrosite and more.

The seller also has a wide variety of faceted gemstones for sale, too. Most of the



stones are of the varieties listed above. There is also some zircon and other synthetics. If you are interested in arranging an appointment to see the machine and materials, contact Joe through Facebook or call him at (937) 620-3323.



*Lisa Morris photos*

# SPOTLIGHT ON GEODES

Geode cracking is one of the most popular demonstrations at most gem and mineral shows. There is something captivating about being the first person to see inside a rock that has been forming for millions of years.



■ Dalton Robbins *Lisa Morris photos*



■ Mike Manning



■ Geraldine Reed; Judy Burton



■ Evelyn Lundquist



■ Judith Echano Medina



## FAST FACT

Geode "pearls" are free floating crystals that are sometimes found inside geodes. What makes them unique is that there are NO attachment points; this means they have NOT just broken loose from the surrounding crystal.

## GEODES: One of Nature's Mysteries

Geodes are subspherical nodules of quartz rock, ranging in size from less than 1 inch to more than 2 feet in diameter and are found in southern Indiana. Geodes typically consist of silica in concentric bands that make up the solid exterior. The interiors are sometimes hollow and can have calcite or other crystals within. At least 20 different minerals, some rather rare, have been identified in these extraordinary rocks.

Geodes are prized by rockhounds. In south-central Indiana, geodes can be found in the walls of road cuts and other exposures of a particular limestone formation (the Harrodsburg Limestone). For several miles on either side of this outcrop area, geodes are abundant along streams and scattered in the soils.

The origin of these interesting rocks is obscure, but some geologists believe that geodes were formerly fossils or gypsum nodules that were slowly replaced, molecule by molecule, by quartz.



Source: Indiana Geological Survey, outreach cards: <https://igws.indiana.edu/referencedocs/>

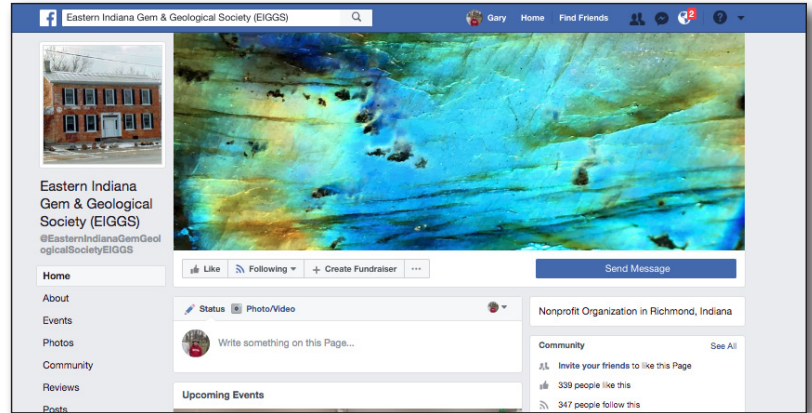


# HOW TO HELP YOUR CLUB ON FACEBOOK

If you are on Facebook, here is a quick and easy way to promote your club and to help get the word out about our upcoming gem and mineral show. --editor

- 1. LIKE & FOLLOW OUR PAGE:** Find, like and follow the Eastern Indiana Gem & Geological Society's page. [facebook.com/EasternIndianaGemGeologicalSocietyEIGGS](https://facebook.com/EasternIndianaGemGeologicalSocietyEIGGS)
- 2. SHARE OUR PAGE:** Then, recommend and share the page to all of your local friends; that way they will get updates on our show and other events. It is a great way to promote our club and our upcoming show and events. **& SHARE PAGE POSTS:** Share page posts with your friends in your news feed.

## LIKE, FOLLOW AND SHARE THE EIGGS FACEBOOK PAGE



- 3. CLICK "INTERESTED" IN THE ROCK SHOW:** The Richmond Gem & Mineral Show is listed on our page as an event. Please click that you are INTERESTED in the event. Facebook will then suggest it as an event to your Facebook friends.
- 4. INVITE FRIENDS TO ROCK SHOW EVENT:** Also, on Facebook, once you click that you are interested, it allows you to invite your friends to attend. I suggest only inviting local friends instead of your friends from across the country. This would be a great way to let more people know about the show, especially the ones who aren't on our postcard mailing list. Then, be sure to invite your friends again, about a week before the show.

## SHARE THE GEM & MINERAL SHOW EVENT



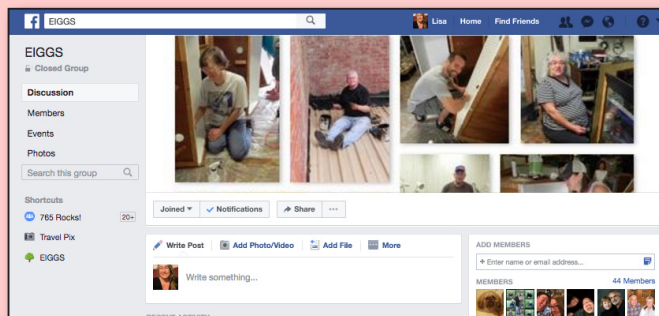
**To Do:** Look for this event on the Eastern Indiana Gem & Geological Society's Facebook page.

Click that you are interested in the event. Right now we have 748 people interested, but only six of those are club members!

Then invite your friends. The more likes our event can get and the more likes the page can get, the more likely it is to be promoted more by Facebook, which will move it closer to the tops of everyone's news feeds. Let's use their popularity algorithm to our advantage!

- 5. JOIN THE CLOSED FACEBOOK GROUP, TOO:** Join the closed Facebook group (club members only) in order to stay up to date on the latest club news. Club members also post great tutorials, online deals, equipment sales, tips and life events. Look up the EIGGS group.

## JOIN THE EIGGS CLOSED FACEBOOK GROUP (ask to join)



## These people are already in the closed Facebook group

- |                  |                |                    |                   |
|------------------|----------------|--------------------|-------------------|
| Adams, Libby     | Hughes, Amy    | Lunsford, Jeanette | Siefferd, Randal  |
| Barnes, Julianna | Ingerman, Joy  | Merrill, Nikki     | Smith, Deanna     |
| Bertsch, Melanie | Jacob, Erna    | Merrill, Tim       | Spurgeon-Freitag, |
| Burton, Judy     | Jones, Mikala  | Moody, Jessica     | Debbie            |
| Chagares, Deb    | Jones, Mona    | Morris, Lisa       | Spurgeon, Danny   |
| Echano Medina,   | Jones, Naomi   | Morris, Mildred    | Straw, Linda      |
| Judith           | Jones, Xavier  | Morse, Mary Ann    | Terhaar, Jamie    |
| Getz, Gary       | Killion, Missy | Roestamadji, Jan   | Thomas, Marty     |
| Geyer, Gary      | Kuhlman, Susan | Rudicil, Matt      | Wiford, Jacob     |
| Gibson, Emily    | Lisota, Mark   | Schutte-Mitchell,  | Wirrig, Joe       |
| Glisson, Alma    | Lucas, Jim     | Christina          | Zinkan, Corky     |
| Hasket, Erin     | Lucas, Marty   | Shaffer, Angie     |                   |

# UPCOMING SHOWS

State & Regional <http://eiggs.weebly.com/other-upcoming-shows.html>

National <http://www.rockngem.com/ShowDatesFiles/ShowDatesDisplayAll.php?ShowState=ALL>

♥ **March 2-4—RICHMOND, IN:** Eastern Indiana Gem & Geological Society, Wayne County Fairgrounds; 861 N. Salisbury Rd.; Fri. 10 a.m.-6 p.m., Sat. 10 a.m.-6 p.m., Sun. 11 a.m.-4 p.m.; Adults \$5; Seniors \$3; Children \$1, under 7 free; Jewelry, Fossils, Minerals; Silent Auction, Displays, Demonstrators, Children's Activities. Food Available. Over 29 Dealers & Demonstrators. Scouts in uniform -free! Contact Judy Burton (937) 339-1966; e-mail: [jleeburton@woh.rr.com](mailto:jleeburton@woh.rr.com); Web site: [eiggs.weebly.com](http://eiggs.weebly.com)

**March 16-18—JACKSON, MI:** Michigan Gem & Mineral Society annual show. Jackson County Fairgrounds American One Event Center; 200 W. Ganson St.; Fri. 10 a.m.-7 p.m., Sat. 10 a.m.-6 p.m., Sun. 11 a.m.-5 p.m. Adults \$4, Seniors \$2, Students \$1, Children \$1. Many activities for kids; Dealers and demonstrators. Gems, minerals, fossils, beads, jewelry, raffle, exhibits, displays, lapidary supplies, door prize drawings, and 3 days of silent auctions. Contact Sally Hoskin, P.O. Box 633, Michigan Center, MI 49254. 517-522-3396; e-mail: [main@mgmsrockclub.com](mailto:main@mgmsrockclub.com); Web site: <http://mgmsrockclub.com/annual-show.html>

**March 16-18—ARDEN, NC:** Annual show; M.A.G.M.A., Camp Stephens; 263 Clayton Road; Fri. 9-5, Sat. 9-5, Sun. 10-4; Free Admission; Numerous indoor and outdoor vendors specializing in gems, minerals, fossils, meteorites and artifacts from North Carolina and around the world. ; contact Richard Jacquot, PO Box 542, Leicester, NC 28748, (828)-779-4501; e-mail: [rick@wncrocks.com](mailto:rick@wncrocks.com); Web site: [www.americanrockhound.com](http://www.americanrockhound.com)

**March 24-25—LEXINGTON, KY:** Annual show; Blue Grass Gem and Mineral Club, Clarion Hotel; 1950 Newtown Pike; Sat. 9-6, Sun. 11-5; Adults \$2, Children \$1; Lexington Rock Gem and Jewelry Show. Show includes minerals, jewelry, equipment dealers, exhibits, KY Agate, fluorescent display, club sales, prizes and auctions. Scouts in uniform free admission.; contact Allen Ferrell, Lexington, KY 40504, (859)-277-2469; e-mail: [kyrock2010kentucky@yahoo.com](mailto:kyrock2010kentucky@yahoo.com); Web site: [www.bggamc.homestead.com](http://www.bggamc.homestead.com)

**March 24-25—CEDAR RAPIDS, IA:** Annual show; Cedar Valley Rock And Minerals Club, Hawkeye Downs Expo Center; 4400 6th St. SW; Sat. 8:30-6, Sun. 9:30-5; Adults \$3, Students \$1, Children under 12 free; Crinoids featured, Iowa's fossil. Exhibits, programs, demos, dealers, educational programs. Food on site. Various children's activities. Gem sluice, pebble pit plus more. Silent auction, door prizes, raffles. ; contact Marv Houg, 1820 30th St. Dr., Cedar Rapids, IA 52403, (319)-364-2868; e-mail: [M\\_houg@yahoo.com](mailto:M_houg@yahoo.com); Web site: [Cedarvalleyrockclub.org](http://Cedarvalleyrockclub.org)

**March 24-25—CHAMBERSBURG, PA:** Annual show; Franklin County Rock and Mineral Club-Chambersburg, PA, Hamilton Heights Elementary School; 1589 Johnson Road; Sat. 10-5, Sun. 10-4; Admission \$5, Children under 12 free with adult; There will be jewelry, gemstones, minerals, fossils, demonstrations, displays, and door prizes ; contact Matt Eldon, 120 East 2nd St., Waynesboro, PA 17268, (717)-765-9770; e-mail: [fcrmc1978@gmail.com](mailto:fcrmc1978@gmail.com); Web site: Facebook-Franklin County Rock and Mineral Club <https://www.facebook.com/Franklin-County-Rock-and-Mineral-Club-1601767103396099/>

**April 6-8—INDIANAPOLIS, IN:** Annual show; Treasures Of The Earth Gem & Jewelry Shows, Indiana State Fairgrounds - Agriculture/Horticulture Building; 1202



## SNEAK PEEK

This amethyst cathedral, straight from the Tuscon Gem Show, will be the raffle grand prize for the Miami County Gem & Mineral Club Show in Troy, Ohio. More details next month.

**April 28-29—TROY, OH:** Annual show; Miami County Gem and Mineral Club, Miami County Fairgrounds, Duke Lundgard Building; 650 North County Road 25-A; Sat. 10-6, Sun. 10-4; Adults \$2, Seniors \$2, Students/Children free; Mineral ID, dealers, specimens, fossils, jewelry, gems, silent auctions, demonstrations, gold panning, sluicing, geode cracking, children's activities, door prizes.; contact Dewey Buck, 100 Windmere Drive, Troy, OH 45373, (937)-335-4375; e-mail: [manningsrockshop@gmail.com](mailto:manningsrockshop@gmail.com); Web site: <https://mcgamc.org/>

E 38th Street; Fri. 10-6, Sat. 10-6, Sun. 11-5; Admission \$5 (Good all three days), Children under age 16 Free; Annual Show. Jewelry makers, goldsmiths & silversmiths from all over the U.S. who can reconstruct, repair, design or make original jewelry from customer selected gems, stones, opals and crystals. Wire wrap wire sculpture, stone beads, pearls, stone setting, amber, opal, mineral meteorite southwestern jewelry and fossil dealers. Hourly door prizes including a ring with a precious stone that will be given as a Grand Prize. Demonstrations and classes. ; contact Van Wimmer, 5273 Bradshaw Rd, Salem, VA 24153, (540)-384-6047; e-mail: [vanwimmer@comcast.net](mailto:vanwimmer@comcast.net); Web site: [www.toteshow.com](http://www.toteshow.com)

**April 7-8—COLUMBUS, OH:** Columbus Rock & Mineral Society and Licking County Rock & Mineral Society Annual show; Northland Performing Arts Center; 4411 Tamarack Blvd.; Sat. 10 a.m.-6 p.m., Sun. 11 a.m.-5 p.m.; Adults \$7, Seniors \$6, Students \$3, Children under 6 free; Scouts in uniform and teachers with school ID free. Large education area containing exhibits on rocks, minerals and metals. Stocks of minerals, crystals, geodes, agates, opal, turquoise, jewelry, faceted stones, silver findings, rough cutting material, rhodochrosite, cabochons, fossils, beads and dinosaur bone from all over the world. Demonstrations of cabochon making, sphere making, gem tree construction, gold panning, jewelry soldering and faceting. Credit cards accepted by dealers but cash or check must be used for show admission. Contact Craig Kramer, 614-436-4511; e-mail: [craig.kramer@wowway.com](mailto:craig.kramer@wowway.com); Web site: <http://www.columbusrockandmineralsociety.org/index.php/rock-show/2017-rock-show/2017-rock-show-information>

**April 24-26—IRVINE, KY:** Annual show; Mountain Mushroom Festival, Estell County School's Central Office; 253 Main Street, (Parking lot in the rear of building); Tue. 9-4, Wed. 9-4, Thu. 9-4; Admission \$10; All day Kentucky agate hunt. Easy or rough terrain trips each day.; contact Francine Bonny, Irvine City Hall, 101 Chestnut Street, Irvine, KY 40336, (606)-723-1233; e-mail: [mushroomfestival@irvineonline.com](mailto:mushroomfestival@irvineonline.com); Web site: [www.mountainmushroomfestival.org](http://www.mountainmushroomfestival.org)



**Friends of Mineralogy Midwest Chapter**  
**6<sup>th</sup> Annual Mineralogical Symposium**  
 Hosted by the Miami University Karl E. Limper Geology Museum

**DATE:** Saturday March 10, 2018

**TIME:** 9:00 AM – 4:00 PM

**LOCATION:** 152 Shideler Hall (Spring Street & Patterson Ave), Miami University, Oxford, OH

**CONTACTS:** John Rakovan ([rakovajf@miamioh.edu](mailto:rakovajf@miamioh.edu) or 513-529-3245)

Randy Marsh ([vpprograms@fommidwest.org](mailto:vpprograms@fommidwest.org) or 513-515-7890)

Ken Bladh ([president@fommidwest.org](mailto:president@fommidwest.org) or 937-390-1742)

**STATEMENT OF PURPOSE:** FM's objective is to promote, support, protect, and expand the collecting of mineral specimens, while furthering the recognition of the scientific, economic, and aesthetic value of minerals and mineral collecting. The purpose of the symposium is to bring together professional and amateur mineral enthusiasts to share information of common interest, to build a local mineralogical community and to provide students with an opportunity to share their work and receive public recognition for it.

**DETAILED AGENDA:**

- 9:00-9:30 FM Midwest Chapter Meeting (open to all)
- 9:45-10:45 *Dr. Peter Megaw*<sup>1</sup>: Minerals of Mexico
- 10:45-11:15 *Dr. John Rakovan*<sup>2</sup>: Crystal Forms and Distorted Crystals
- 11:15-11:45 *Mark Jacobson*<sup>3</sup>: The Hiddenite & Emerald Mineral Localities, Hiddenite, Alexander Co., NC
- 11:45-1:00 Lunch Break Armstrong Student Center and Museum Viewing
- 1:00-1:30 *Dr. Peter Megaw*<sup>1</sup>: Carbonate Replacement Deposits (CRDs)
- 1:30-3:30 Submitted talks (15-30 min each)
- 3:30-4:00 Awards for Submitted Student Talks

<sup>1</sup> *Dr. Peter Megaw is an economic geologist from Tucson Arizona who specializes in hydrothermal ore deposits in Mexico. Peter has been the Tucson Gem and Mineral Society show exhibits chairman for many years.*

<sup>2</sup> *Dr. John Rakovan is a Professor of Mineralogy at Miami University and an executive editor of Rocks & Minerals.*

<sup>3</sup> *Mark Ivan Jacobson, a consulting editor of Rocks & Minerals, is President of the Friends of Mineralogy National Chapter with mineralogical specializations in pegmatites and their histories of exploitation.*



# 2018 ANNUAL MGMS GEM & MINERAL SHOW

Michigan Gem & Mineral Society Presents:

## “IT’S ALL ABOUT THE GEODES”

### MARCH 16-17-18

FRI 10AM - 7PM  
SAT 10AM - 6PM  
SUN 11AM - 5PM

American 1 Credit Union Event Center  
Jackson Co. Fairgrounds  
200 W. Ganson St  
Jackson, MI 49202



Adult \$4  
Senior \$2  
Student \$1  
5 & under FREE  
Girl/Boy Scouts &  
Military Personnel in Uniform FREE

*Gems*

*Rocks*

*Beads*

*Raffle*

*Fossils*

*Exhibits*

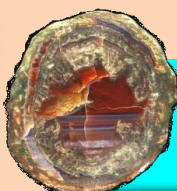
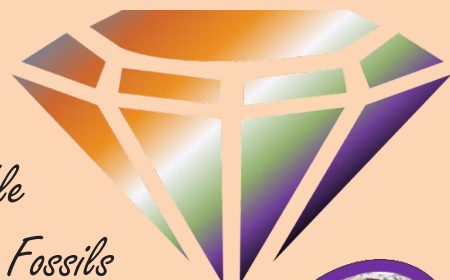
*Jewelry*

*Minerals*

*Door Prizes*

*Silent Auction*

*Demonstrators*



[www.mgmsrockclub.com](http://www.mgmsrockclub.com)  
[info@mgmsrockclub.com](mailto:info@mgmsrockclub.com)  
Show Chair: Sally 517-522-3396



**Blue Grass Gem  
and Mineral Club  
Presents**

# **Lexington Rock Gem and Jewelry Show**

Mineral and fossil specimens, cabbing rough, crystals, Artisan jewelry, books, and children's items.

**Silent Auctions and Hourly Door Prizes**

**Free Parking**

**March 24 & 25, 2018**

**Saturday 9 am—6 pm**

**Sunday 11 am—5 pm**

**Clarion Hotel Convention Center**

**1950 Newtown Pike ~ Lexington, KY ~ Exit 115 I-75**

*ADMISSION:* \$2 Adults ~ \$1 children 6-17; Families \$5

Scouts in uniform free;

*CONCESSIONS ON SITE* <http://bggamc.homestead.com/>

*Lexington Gem Show*