



# Eastern Indiana Gem & Geological Society **November 2017** **ROCK PICKINGS**

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### Memberships:

Annual dues  
\$15 Individuals  
\$20 Families

### Please send dues to:

EIGGS  
PO Box 1724  
Richmond, IN 47375

**7** Next meeting: Thursday, December 7, 6 p.m.

## PRESIDENT'S MESSAGE



Hello, Rock Hounds:

Make sure to stop by Danny Spurgeon's storefront at the Dill House on 111. S. Morton St. for the Christmas in Centerville Bazaar on Dec. 1, 12 - 5 p.m. & Dec. 2, 10 a.m. - 6 p.m. There will be many of our members setup selling their wares. Support your local arts community!

Members and their families are invited to our annual Christmas dinner, December 7 at 6 p.m. The club will provide ham, drinks and plates/utensils.

One of our members, Randy Patrick, will be giving a special presentation at our Christmas dinner. He will be passing around a specimen of Trinitite from the Trinity nuclear detonation, the first nuclear bomb. No need for concern: the level of radiation given

off by the specimen is less than an x-ray.

Officer elections will be conducted at the December Christmas dinner. We have a full slate of nominees. If you are interested in an officer position, you can still put your name on the ballot at the Christmas dinner.

As most of you know, I will not be volunteering for election as President again. I was honored to be your club president for three years. I got to know many of you better through this position. We accomplished a lot of great things together, lots of maintenance, membership growth, a vastly improved newsletter, a raffle at our annual rock & gem show and the list goes on. I'm very proud of what we have accomplished. I am confident the incoming president will build on our achievements. It has been a pleasure serving as your president. See ya around the clubhouse. Merry Christmas and Happy New Year.

*Mark*

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Holiday pitch-in, Dec. 7



Marty Lucas shows her holiday spirit

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Night at the Museum



Hailee, Angie & Bobby Shaffer

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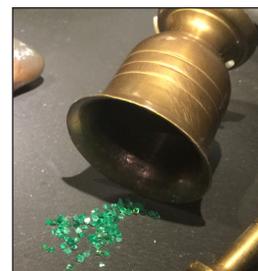
Glen Helen rock formations



Pompey's Pillar at Glen Helen

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The Power of Poison



New exhibit at the State Museum

**Members attending:** John Morse, Mary Ann Morse, Angela Shaffer, Hailee Shaffer, Lisa Morris, Dave Straw, Jim Lucas, Marty Lucas, Estel Jones, Mona Jones, Mark Lisota, Danny Spurgeon, Erna Jacob, Randal Siefert, Suzanne Siefert, Jeanette Lunsford, Judy Burton, Lisa Nash, Malessia Bowling, Tim Merrill, Nicole Merrill, Scott Gibson, Emily Gibson, Randy Patrick, Deb Chagares.

250 grab bags were assembled before the meeting.

Meeting was called to order by Mark Lisota.

**Membership renewal:** Mark reminded members that it is time to renew membership before the end of the year.

**Mineral Collection Trip:** Two dates are scheduled for the club to visit the Langsdon Mineral Collection, Celina, OH. The first date is Nov. 4. The second trip is Saturday, Dec. 9. Sign up online by Dec. 6. Program begins at 4 p.m. People MUST be there before the library closes at 5p.m. [www.eiggs.weebly.com](http://www.eiggs.weebly.com)

**Holiday pitch-in:** Next month is our Christmas party. Meeting time is 6 p.m. Bring a side dish. Meat, drinks and tableware provided. There will be a gift exchange. If you wish to participate, bring a rock-related gift - \$10 value suggested. Anyone who is interested in decorating, meet with Mary Ann Morse after the meeting.

**Rock Sale [canceled due to lack of interest]:** – at the clubhouse Sunday, November 12, 1-5 p.m. Register online by November 7. [no one registered]

**Manning's Rock Shop Open House:** Mike Manning is having his rock shop open house – November 17, 18, 19.

**Raffle tickets:** Joe Wirrig has created a lapis/diamond pendant for his church raffle. Tickets are available after the meeting.

**Autumn Artisan's Bazaar** – at the Wayne County Historical Museum on Saturday, Nov. 4. Dave Straw will have a booth.

**Christmas in Centerville** is December 1-2. Members will have vendor space in Danny Spurgeon's building.

**Classes:** Deb Chagares will do another wire wrap class if there is interest. Let her know what class topic interests you: pendants,

## 2018 Slate of Officers: Election will be held at Dec. meeting



**Deb Chagares**  
running for  
President



**Jim Lucas**  
running for  
Vice President



**Angie Shaffer**  
running for  
Treasurer



**Mona Jones**  
running for  
Secretary

earrings or rings. Danny Spurgeon will do an advanced Viking weaving class in February.

**December presentation:** Randy Patrick was introduced to the group. He has a Trinitite sample collected at Los Alamos. Members indicated interest in seeing it, so Randy will bring it next month.

**Treasurer's items** – Dave Straw has a new e-mail address. [dstraw314@gmail.com](mailto:dstraw314@gmail.com)

Dues are due!

The barn on the neighboring property that is partially collapsed has been condemned by the county. The owner is planning to have it torn down.

**Treasurer's report:** \$1,445 was spent, including newsletter, utilities, yearly insurance premium. Income was \$798, including dealer booth fees, shop and soda.

**Show report:** – Grab bags are done. Show chairperson Judy Burton encouraged members to begin distributing fliers.

**Officer election:** December will be election of officers. The slate of officers was presented: President, Deb Chagares; Vice-President, Jim Lucas; Treasurer, Angie Shaffer; Secretary, Mona Jones. Nominations from the floor will be accepted at the December meeting.

Mark will not be at the December or January meetings, so this was his last meeting as President. He said he was glad to have served, and hoped he had made some positive changes.

Meeting adjourned.



# ROCKIN'

## AROUND THE CHRISTMAS TREE

*Annual holiday party/pitch-in set for Thursday, Dec. 7 at 6 p.m.*

**F**ood, friendship and fun will fill the clubhouse when members and their families gather Thursday, December 7 at 6 p.m. for the annual Christmas party and pitch-in dinner.

Meat and drinks will be provided by the club, and members should bring side dishes, salads or desserts.

**Gift exchange:** Anyone interested in participating in the gift exchange is encouraged to bring a \$10 rock-related gift to share. If you don't want to participate in the gift exchange, that's fine, but please come share the fun.

### CLUB CHRISTMAS LIST



As far as behavior goes, EIGGS and its members are surely on Santa's "nice" list. With that in mind, here are some items on the EIGGS Christmas list, just in case any elves feel like making a holiday donation to the club.

- paper towels
- toilet paper
- kleenex
- AA batteries
- box of red shop rags for saw room
- visors
- 1 or 2 plastic/rubber aprons
- safety glasses
- dust masks
- cloth buffing wheels
- 60 watt light bulbs
- small plastic bags (*to contain mess when cleaning dop sticks*)
- plastic spray bottles
- dish soap
- hand soap
- assorted cards:

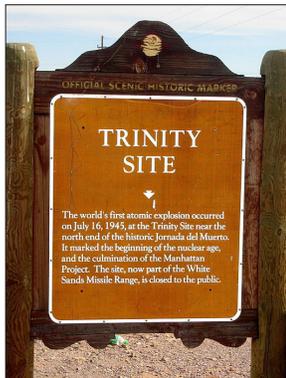
get well, thinking of you, congratulations

■ Marty Lucas decorated this tree. Be sure to come to the party to see this year's decorations. The Christmas party/pitch-in will be held at the clubhouse on Thursday, Dec. 7 at 6 p.m.

# RARE TRINITITE TO BE SHOWN AT DECEMBER MEETING

Club member Randy Patrick is a geologist who specializes in extreme blast dynamics. For the December meeting, he will bring a piece of Trinitite and will discuss its properties and what can be learned from it. Below is info he provided about the material.

**T**rinitite is a solid form glass created during the nuclear detonation of July 16, 1945 at the Trinity test site. The test was conducted in the Jornada del Muerto desert about 35 miles (56 km) southeast of Socorro, New Mexico, on what was then the USAAF Alamogordo Bombing and Gunnery Range (now part of White Sands Missile Range).



This was the first nuclear detonation on the planet earth and when the bombs were used the next month against Japan, World War II ended.

Trinitite, also called Atomsite and Alamogordo Glass, was formed from the sand, tower structure, and bomb parts that vaporized because of the intense temperature from the atomic detonation.

The material condensed and rained out as liquid and possibly solid pieces that fused together on the ground. The material is slightly radioactive but quite safe to handle. The main color is a green glass but it can also be tans and browns.

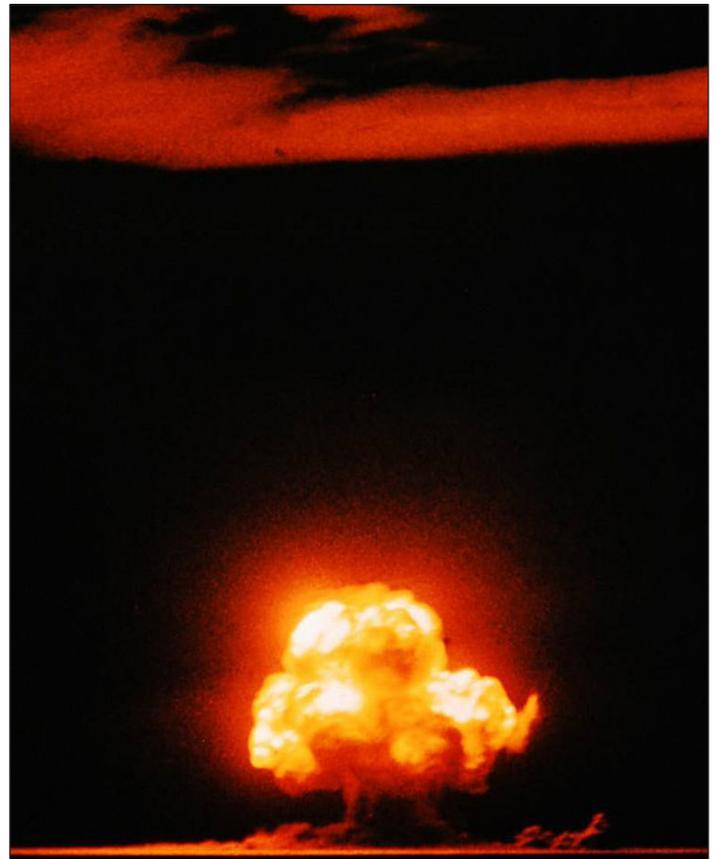
During the 1940s and early 1950s collectors were allowed to use the atomic glass for jewelry and collector items. There are currently pieces on the market many of which are fake. The easiest way to tell is to use a Geiger counter. The fake atomic glass will not be radioactive. Very few pieces of the original material remain on the market.

This sample will be cut, thin-sectioned to look at how the quartz sand grains have changed along with zircon crystals. Some of the sample will be crushed and formed into a thin section that will be used to look at internal structures within all of the mineral grains that are present.

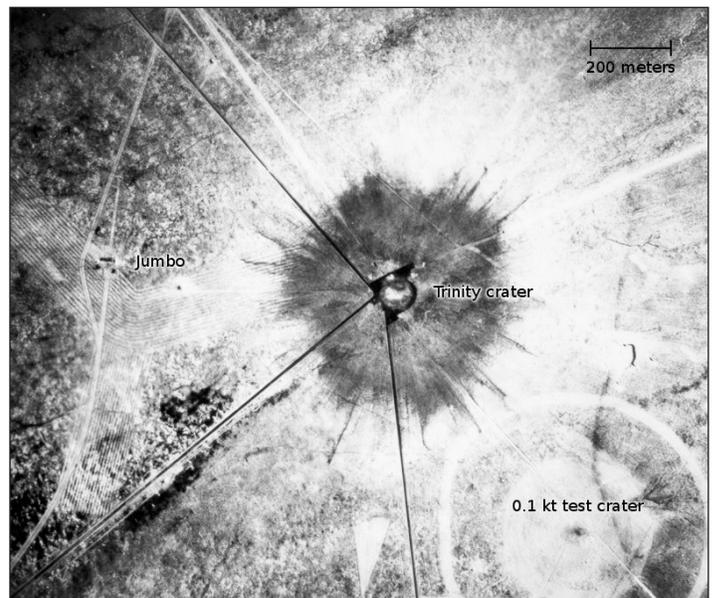
Trinitite is not considered a true mineral because you cannot find it at any location on the earth's surface other than atomic bomb test sites. It is only made during atomic detonation.



■ To further explore extreme blast dynamics, Randy Patrick will conduct tests on this piece of Trinitite, glass material formed by the 1945 Trinity nuclear test in New Mexico. *photos courtesy of Randy Patrick*



■ Jack W. Aeby, July 16, 1945, Civilian worker at Los Alamos laboratory, working under the aegis of the Manhattan Project. - This image comes from the Google-hosted LIFE Photo Archive where it is available under the filename 96ad5a9a5c94664e. *public domain, Wikimedia Commons*



■ White Sands, New Mexico. Aerial view of the aftermath of the Trinity test, 28 hours after the explosion. The smaller crater to the southeast is from the earlier detonation of 100 tons of TNT on May 7, 1945. To the left of the crater can be seen the "Jumbo" container, unharmed, and its collapsed tower (a vertical line). *public domain, Wikimedia Commons*

## VINE STREET MARKET, Nov. 18

*Ingerman's work featured in Connersville event*

Nearly 60 area artists, including EIGGS own Joy Ingerman, will be featured at the Vine Street Handmade Market in Connersville, Saturday, November 18.

The event will be held at the Expo Hall at the Fayette County Fairground from 8 a.m. until 5 p.m.

Joy will be selling a variety of natural stone jewelry, featuring beadwork, wire-wrapping and Viking weaving.

### Vine Street Handmade Market

Saturday, November 18  
8 a.m. - 5 p.m.

nearly 60 vendors

Expo Hall  
Fayette County Fairgrounds  
2690 N. Park Road  
Connersville, IN 47331



Club member Joy Ingerman sells her beaded creations under the name Joyful Designs. When the Fayette County Public Library hosted an art fair, club member Judith Echano Medina stopped by to talk with Joy about her jewelry.



## MANNING'S ROCK SHOP OPEN HOUSE Nov. 17-19



Mike Manning of Manning's Rock Shop, sells a wide variety of tumbled stones, fossils and mineral specimens at the EIGGS rock & gem show.

Mike Manning, a perennial vendor at the EIGGS rock and gem show, would like to invite all everyone to his annual holiday open house at Manning's Rock Shop.

He will have over 100 types of tumbled stones and many types of rough rock including sodalite, agates, jaspers and obsidians. He also has fossils including megladon shark teeth, mastodon teeth, trilobites, crinoids. The shop also has display pieces, salt lamps, cabbed stones, minerals including azurite, quartz, malachite, citrine, fluorite, 2018 calendars of fine agates and jaspers, rainbow flint, selenite wands, creedite, optical calcite, ulexite, small meteorites, amethyst, and more.

He also sells rock tumblers, grits, polish, bags of rocks to tumble and geodes.

If you haven't seen his rock tumbling operation, that alone is worth the trip. Mike can tumble up to about 800 pounds of rock at a time. He has one unit that has eight 40-pound tumblers running off one motor, one that has eighteen 12-pound tumblers off of one motor, and two units that each hold six 12-pound tumblers off of a motor.

Mike does want to remind everyone that he does not accept charge cards and prefers cash payment. After the open house, the shop will be closed the week of Thanksgiving and then open by appointments during the week or on weekends until Dec. 23. The shop will be closed from Dec. 24 until Feb. 15. Call (937) 552-4705 or (937) 681-0264 for appointments.

### Manning's Rock Shop Holiday Open House

#### Hours:

Fri., Nov. 17: 10 am-6 pm

Sat., Nov. 18: 10 am-6 pm

Sun., Nov. 19: 12-5 pm

#### Location:

3615 East State Route 55  
Troy, Ohio 45373

Phone: (937) 552-4705

# CLUB MEMBERS CELEBRATE CHRISTMAS IN CENTERVILLE

Christmas in Centerville is rapidly approaching and Danny Spurgeon is opening his building, the Dill House as a sales space for club members.

Participants will include Malessia Bowling selling jewelry, Erna Jacob with jewelry and a variety of crocheted items, Mona Jones with jewelry, paintings and more, Missy Killion with jewelry items, Mary Ann Morse with jewelry, beadwork, and knitted items, Danny Spurgeon with jewelry, cabochons, stones, and more, and Dave Straw with polyhedral stone sculptures.



The Christmas in Centerville

hours are Friday, Dec. 1, noon to 5 p.m. and Saturday, Dec. 2 from 10 a.m. until 6 p.m.

If you want to discuss whether vendor space is still available, please e-mail or call Danny at 727-389-2900 or [joseph\\_6841@yahoo.com](mailto:joseph_6841@yahoo.com).

Be sure to drop by to support our club members as they sell sterling silver jewelry, gem trees, hand-knitted items, Christmas items and collectibles and stone display items.



■ EIGGS members including Erna Jacob will take part in Christmas in Centerville, Dec. 1 & 2 at the Dill House at 111 South Morton Street in Centerville.

## MEMBERSHIP RENEWAL

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*

## Annual Membership Renewal Form

Please check your membership level

Family Membership \$20

Single (age 16 and older) \$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



# ON THE ROAD: LANGSDON MINERAL COLLECTION

■ Tina White, John Nichols, John Morse and Mary Ann Morse listen as Professor Ken Strickland explains the properties of various minerals during the Night in the Museum field trip.



The [Langsdon Mineral Collection](http://LangsdonMineralCollection.org) hosted its first-ever Night in the Museum Nov. 4 for members of the Richmond and Troy gem and mineral clubs. If you missed out, a second Night in the Museum will be held Dec. 9 from 4-7 p.m. Please go to [eiggs.weebly.com](http://eiggs.weebly.com) to register.

During the event, 25 rock enthusiasts visited the collection after hours, which allowed them to explore using not only incandescent lighting, but also both long and short wave UV. Club members were amazed at the wide variety of fluorescent specimens scattered among the 27 display cases.

The group also viewed items in storage, which are not currently displayed, including a stunning piece of Stilbite with Apophyllite clusters from India.

Many of the specimens are newly discovered minerals from recently-opened mines in India, China and Pakistan. Other specimens are from historic mining areas, which are now closed to collectors. The collection contains pyrite, galena, quartz, tourmaline, apophyllite, stibnite and rhodochrosite, among many others. Each sample is labeled with the mineral type and place of origin.



■ Night in the Museum participants from EIGGS and the Miami County Gem and Mineral Club: **Front row:** Glenn Hux, Tony Rotondo, Tim Merrill, Nikki Merrill, Angie Shaffer, Bobby Shaffer, Hailee Shaffer, Sheila Thomas. **Back row:** Terry Lukac, Dylan Koenig, Anita Lukac, Geraldine Reed, Lee Reed, Mitzi Johnson, Tina White, Dewey Buck, Teresa Nichols, John Nichols, Professor Strickland, Marty Thomas, Sandy Braun. **Not pictured:** Frank Brower, Louise Brower, Lisa Morris, John Morse, Mary Ann Morse, Malcolm Reynolds, Vickie Reynolds.



■ Tony Rotondo teaches Mitzi Johnson, Tim Merrill and Nikki Merrill about the conductivity of various minerals at the Langsdon Mineral Collection.

## NIGHT IN THE MUSEUM FIELD TRIP

**What:** After-hours exploration at the [Langsdon Mineral Collection](http://LangsdonMineralCollection.org)

**Who:** Open to members of the Richmond, Troy, Fort Wayne & State Line gem & mineral societies and their families.

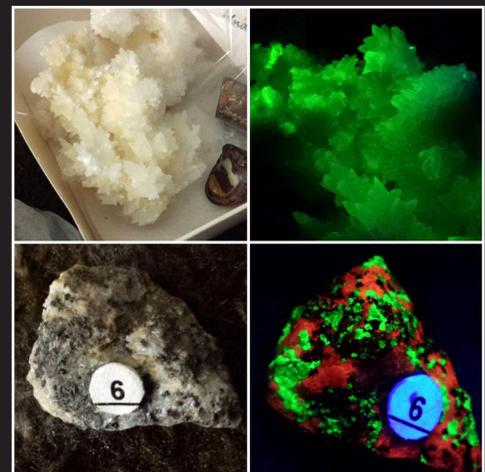
**Date:** December 9, 4-7 p.m.

Please go to [eiggs.weebly.com](http://eiggs.weebly.com) to register for this free event.

**Where:** Mercer County District Library, 303 N. Main St.; Celina, OH 45822

**Why:** The chance to view over 900 mineral specimens in 27 cases with many more in storage. We will use incandescent light as well as long wave, short wave and mid wave UV to find fluorescent minerals.

**Click here to register**



# RAM HOLIDAY ART MART

Four club members featured in annual Art Mart

**Holiday Art Mart**  
**Richmond Art Museum**  
 now until January 13

**Admission: free**

915 E. Main Street.  
 Richmond, IN 47374

Phone: (765) 966-0256

Hours: Tuesday-Friday  
 11 a.m.-5 p.m.

Saturday 10 a.m.-4 p.m.  
<http://richmondartmuseum.org/>

Since the Richmond Art Museum is undergoing renovation, the annual Holiday Art Mart will take place at their temporary location at 915 East Main Street.

Three ELGGS club members have work featured in the Art Mart. Barbara Kuhlman has a ceramics and a painting in the show. Susan Kuhlman and Joe Wirrig have a selection of pendants and bracelets in the exhibition.

This annual juried event allows area artists to showcase original works that are no larger than 5"x7", as well as sculpture, ceramics and jewelry.

This annual exhibit is designed to inspire unique gift giving and art collection. All the works on display are \$250 or less. Sales support both the artists and RAM.



Bracelet and pendant  
 by Susan Kuhlman



Three pendants by Joe Wirrig



Nest and painting by Barbara Kuhlman



## WELCOME, NEW MEMBER!

### Teri Wiggans

**Occupation:** Family Nurse Practitioner

**Location:** Richmond, IN

**How did your interest in rocks, gems or minerals develop?**

My parents collected.

**What are your favorites rocks or fossils?** My favorites are horn coral, geodes and agates. They tell stories.

**What do you hope to learn?**

I hope to expand my knowledge of rocks.

**What have you learned so far?** Cutting shapes from slabs, using the trim saw, using the slab saw and grinders.

**Other hobbies or interests?** hiking, swimming, laughing, camping

A warm welcome goes out to Teri Wiggans  
 Eastern Indiana Gem and Geological Society's newest member



At the end of her first night at the club, new member Teri Wiggans is happy to show off her first two cabochon preforms, straight off of the trim saw.



# GARRY GETZ MENTIONED IN ROCK & GEM

If you've ever had a rock identified at any gem and mineral show in the region, including Richmond, Troy, Greenfield and Ft. Wayne, chances are you've met geologist Garry Getz.

And, if you have researched Ohio flint, visited Ohio travel centers or the Flint Ridge State Memorial, you've probably encountered the pamphlet material Getz wrote for the Ohio Department of Natural Resources.

The pamphlet provides a wealth of information about flint, which is Ohio's official gemstone. Recently, when Rock & Gem magazine featured Ohio flint as their cover story, and they gave a shout-out to Getz and his pamphlet. If you would like to read the pamphlet, it is available at <http://geosurvey.ohiodnr.gov/portals/geosurvey/PDFs/Education/el06.pdf>



## About the Author ⇨

Garry Getz was born and raised in Springfield, Ohio, and attended Wright State University where he earned a B.S. degree in geology. He has worked in geology-related fields since 1975, including mining and mine consultation for various aggregate companies, aggregate testing, and oil field and vibroseis exploration. He is also an avid mineral and fossil collector and regularly volunteers at local mineral and gem shows as an identification specialist. Garry lives in Springfield, Ohio, with his wife Linda.

more at <http://www.bowser-morner.com/people/ggetz>



The Flint Ridge State Memorial museum is built directly over an ancient quarry with exposed walls of in situ flint. Exhibits interpret the regional geology, explain how Native Americans quarried the flint and worked it into tools and weapons, and describe the prehistoric and historic uses of flint. The museum also distributes "Flint: Ohio's Official Gemstone" (Ohio Department of Natural Resources Educational Leaflet No. 6, 2016), a well-written and nicely illustrated account of Ohio flint prepared by local geologist Garry L. Getz.

## FLINT RIDGE FLINT

You Can Collect Ohio's State Gemstone

Story by Steve Voyerick

Gemstones and flint are not usually discussed in the same breath—unless the flint is from Ohio's Flint Ridge. With its rainbow of colors and its ability to take a superb polish, Flint Ridge flint is prized by flint knappers, lapidaries, jewelry makers, and mineral collectors. Add some fascinating history and geology, and it's no wonder that Flint Ridge flint is also Ohio's official state gemstone. Flint Ridge, located in southeast Ohio about 40 miles east of Columbus, the state capital, is an unimposing, low escarpment in the gently rolling farm country just north of Interstate 70. While the topography of Flint Ridge may be unremarkable, that's not the case with its cultural significance. As a source of high-quality flint, Flint Ridge began attracting Native Americans some 12,000 years ago, and is still drawing people today.



# SEEKING LAPIDARY OF THE MONTH ARTICLES



## LAPIDARY OF THE MONTH

OCTOBER 2017



I found a scrap piece of Crazy Lace agate in the discard bin of our club lapidary shop a few months ago. It was about 5 inches long and 1/2 inch wide. Someone had

traced the outline of a rectangular piece on it, and then apparently discarded it since the rough edges intruded into the planned shape. I salvaged the stone, traced three 1-inch ovals into the slab, and thought I would see what came from it. Using equipment available in the Vallejo Gem & Mineral Club shop, I cut the ovals free using a trim saw, and then shaped them on an 80 grit stone grinding wheel. After initial shaping, I curved the tops of all three stones before mounting them on dop sticks.

The next phase was to complete the shaping of the cabs using a progressive series of stone grinding wheels with grit sizes of 100, 220 and 400 successively. Then came the initial polishing. For

this, I used belt polishing wheels, again in a progression of grit sizes. I started with another 400 grit wheel, then moved on through 600, 1200 and 3000.

To complete the stones, I used buffing wheels, starting with a 3000 grit diamond wheel. This was followed with 1400, 8000 and 50000 diamond grit wheels. The cabs were finished with a tin oxide polishing wheel.

In the process of working the stones, I found that what I thought was a void in one stone was actually intergrown quartz crystals surrounded by gray-white banding. The colors are very clear in both stones. It goes to show that one person's trash is another person's treasure.

—Glen Mitchell  
American Canyon, CA

by Jim Brace-Thompson  
AFMS Newsletter—October 2017

Rock & Gem magazine is the officially endorsed hobby magazine of the American Federation of Mineralogical Societies. In other words, it's our magazine!

Not only does it contain articles of immediate interest each and every month, it welcomes contributions by each and every one of us to better inform our fellow practitioners in our fun hobby. R&G Managing Editor Lynn Varon notes that one especially popular feature is the "Lapidary of the Month" article submitted by people to highlight some new technique or novel lapidary art that they've mastered and would like to share with their fellow rock hounds. However, the supply of entries for this monthly feature has been drying up in recent months, and Lynn welcomes new articles to keep this feature lively and relevant.

The guidelines for submission are simple:

1) Write a 500-word step-by-step description of how you crafted a particular lapidary project and save it as a document file.

2) Take at least one sharp, close-up, color digital photo of the finished project. (Use high resolution: 300 dpi at 4 x 5 inches, minimum.)

3) Attach your document file and digital photo (.tif or .jpg) to an e-mail and send it to [editor@rockngem.com](mailto:editor@rockngem.com) with the subject line "Lapidary of the Month."

4) E-mail the R&G editor or call 972-448-4626 with any questions. Lynn is happy to provide guidance!

For an example, the September Lapidary-of-the-Month article describes how to make drawer pulls and knobs for kitchen cabinets decorated with agate cabs.

Let's all help keep our own hobby magazine lively and relevant with projects and techniques that should prove of interest to all of us.



## ROCK & GEM MAGAZINE

from <http://www.rockngem.com/>

Since 1971, *Rock & Gem* has been the leading magazine for the lapidary and mineral hobbyist. Not a trade journal and not a scientific dissertation, it speaks to the average rockhound, providing just the right blend of entertainment and satisfying information. Armchair hobbyists and diehard diggers alike will find something to enjoy in each issue.

Lifetime hobbyist and Carnegie Award winner Bob Jones heads up a group of experienced and knowledgeable contributors. Bob's lighthearted style brings readability to in-depth articles on minerals, classic deposits, and collecting trends. His writing reflects over 80 years of rockhounding experience and mineral study.

Field trip writers ferret out the collecting spots that deliver the goods and give you clear directions to an enjoyable outing. Field trips range from day-long, family-friendly outings to extended-stay adventures in the great American wilderness.

Not sure what to do with the gems from your last field trip? Step-by-step projects for lapidaries of all skill levels will soon have you tumbling, polishing, faceting, and making jewelry like a pro.

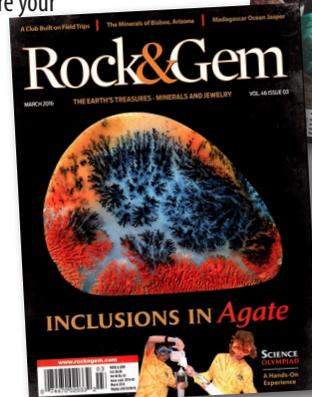
Regular columnists Steve Voynick, Bob Rush and Russ Kaniuth share their insights on the science of minerals and lapidary techniques.

We know that our youth are the key to the continuing growth of the hobby. Our monthly children's feature, "Rock & Gem Kids," is designed to appeal to a younger generation with short, interest-catching articles, kid-sized projects, and puzzles.

You don't have to stop at just reading *Rock & Gem*. There are plenty of opportunities to contribute, as well. Share your faceting knowledge by submitting a faceting design, show off your lapidary skills by entering our Lapidary of the Month contest, or share your comments and experiences through our Field Notes section.

Our readers are also our writers, contributing full-length features and project articles. Click on the Writers' Guidelines button on our web site to get started on your own submission.

Once you start reading about all the exciting things rockhounds are doing these days, you can't help but join in. Jump into the hobby with *Rock & Gem*!



Rock & Gem subscribers can choose to receive either print or digital versions of the magazine, or they can choose to receive both print and digital copies.



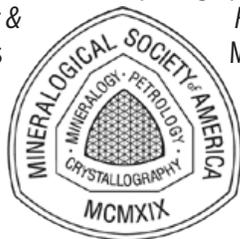
# ROCKS & MINERALS MAGAZINE

from <http://www.rocksandminerals.org/>

**A**mateurs as well as professional scientists delight in and pore over *Rocks & Minerals* magazine, which has published feature articles on mineralogy, geology, and paleontology since 1926.

Regular departments explore such topics as minerals for the collector; microminerals; recent books, videos, and DVDs; coming events; museum news; and personalities in the field.

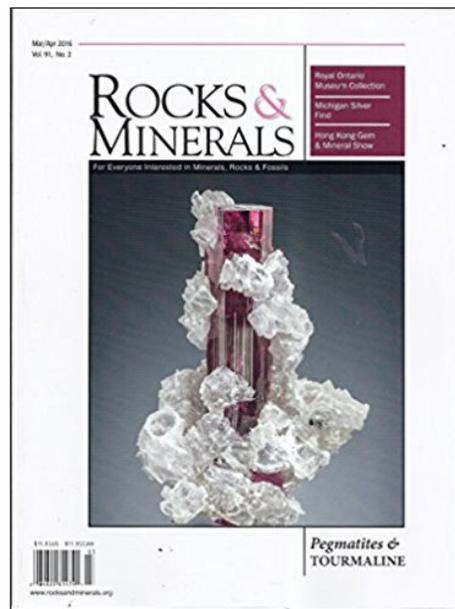
Detailed lists of collecting opportunities in



specific localities are published periodically, as are special theme issues. Spectacular color photographs appear throughout each issue.

*Rocks & Minerals* works with the Mineralogical Society of America to promote cooperation between collectors and professional mineralogists.

The magazine is affiliated with the Friends of Mineralogy as well as the Midwest Federation of Mineralogical and Geological Societies and the Eastern Federation of Mineralogical and Lapidary Societies.



## WELCOME, RETURNING MEMBER!

A warm welcome to Judith Applegate EIGGS's newest member

### Judith Applegate

**Occupation:** Retired, formerly taught New Testament at Earlham School of Religion

**Location:** Richmond, IN

#### How did your interest in rocks, gems or minerals develop?

When I was creating flower beds in my yard on SW 3rd Street, I noticed a great number of rocks that were very oddly shaped, and I wondered how these shapes could have been made in our geological history.

Many years later, I found a round, pointy "rock" and commented to a friend that I wondered if it was a native American spear head or something. He took a look and said, "That's a horn coral." I started reading and talking to other about how I could find a coral fossil in my yard in Richmond, IN.

I visited one friend who had just checked out from the library three books on fossils that he showed to me. A week later, I spotted the same three titles in the Salvation Army bookshelf and bought them for myself. Then I started really paying attention to the rocks from my garden, and started carefully cleaning those I suspected to be fossils.

Cleaning them after soaking in water and vinegar has become hypnotic to me. I feel like I am unearthing treasures with each one. However, I find my interest in fossils centers on what I find

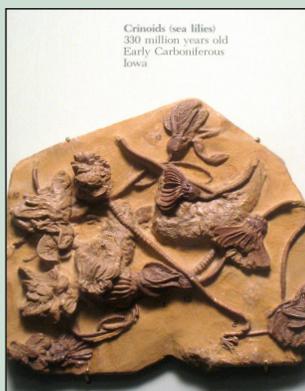
in my garden. I do not feel the inclination to travel to digs or other fossil troves. I think I like to imagine I'm living on top of a coral bed right here in the middle of Indiana.

Back in the late 1970's I focused on the healing properties of crystals and stones, and started collecting those that attracted me. I love the feel and comfort stones bring to me. During this period, I had a "reading" done by a Native American woman in Cincinnati. I brought a stone that I had found, and she showed me the details that appeared when the stone was moistened, and then she interpreted them as one would "read" tea leaves. From the interpretation, she then, "channeled" a personal spirit helper and "drew" his picture on a piece of leather made into a dream-catcher frame. This spirit helper and his image have accompanied me throughout many challenging years.

#### What are your favorite rocks or fossils?

I am enchanted by and continually looking for Sea Lilly fossils and other delicate coral remnants. Of course, I would love to find a Trilobite, because they are so rare in this area and seem so magical when shined up. On the other hand, they are just prehistoric beetles, the modern version in which I have little interest.

*Wikimedia Commons, public domain: File:Crinoids - National Museum of Natural History - IMG 1947.JPG*



Crinoids (sea lilies)  
300 million years old  
Early Carboniferous  
Iowa

#### What do you hope to learn from being a club member?

For me, being a club member offers the privilege of associating with other people who love rocks in all their facets.

#### What areas are you most interested in and what have you learned so far?

The magical process of transformation that reveals the beauty and potential to be found in the ground.

#### What are a few of your other hobbies or interests?

Since I retired in 2010, I have been trying my hand at a variety of artistic mediums. I have made cement garden stones decorated with rocks from my garden. I have done some watercolor and acrylic painting. I do some sewing projects and furniture refinishing. And I happened upon a powdered product of various colors which, when applied to very hot glass surfaces, melts and can be used to create decorative designs.

#### Anything else you want to share?

I share my house with Nike, a Miniature Pinscher/Chihuahua whom I adopted about six months ago from the HELP the Animals shelter in Richmond.

# REMAINING 2017 METEOR SHOWERS

	<b>Northern Taurids</b> Peak date: 11/12/2017
	<b>Leonids</b> Peak date: 11/17/2017
	<b>Alpha-Monocerotids</b> Peak date: 11/21/2017
	<b>November Orionids</b> Peak date: 11/30/2017
	<b>Phoenicids</b> Peak date: 12/6/2017
	<b>Puppilid-Velids</b> Peak date: 12/6/2017
	<b>Monocerotids</b> Peak date: 12/8/2017
	<b>Sigma Hydrids</b> Peak date: 12/11/2017
	<b>Geminids</b> Peak date: 12/14/2017
	<b>Coma Berenicids</b> Peak date: 12/15/2017
	<b>December Leonis Minorids</b> Peak date: 12/19/2017
	<b>Ursids</b> Peak date: 12/22/2017



■ Taken during the peak of the 2009 Leonid Meteor Shower, the photo shows the meteor, afterglow, and wake as distinct components. *photo by Ed Sweeney, Navicore, Wikimedia Commons*

# ★ STAR STRUCK ★

Upcoming meteor showers fill the night skies now through December

Grab your coat, a blanket and a thermos of cocoa, then head out of town away from light pollution to see a wide variety of meteor showers in November and December.

In our region, there are 12 remaining meteor showers in 2017, but many will be weaker shows with few meteors per hour, and several others will be dim thanks to the full moon.

A waning crescent moon, will make the Leonid meteor shower your best bet for November. It peaks on Nov. 17.

Weather permitting, the Geminids, in December, should be the show of the season, though, averaging 120 meteors per hour.

Check out the American Meteor Society for more information <http://www.amsmeteors.org>

## Basic Terminology

**Asteroid** - small planet-like bodies that orbit the sun lying mostly in the region between the orbits of Mars and Jupiter. Their diameters range from a few meters to hundreds of kilometers.

**Meteoroid** - a small piece of dust, rock, ice or metal moving through space. They range in size from a speck of dust to huge dimensions but are smaller than an asteroid.

**Meteor** - a meteoroid that has entered the Earth's atmosphere and burns brightly leaving a flaming tail and sometimes smoke. They are more commonly called "shooting stars" or "falling



■ Potential meteorites from Mike Ragen's collection stars." Most meteors burn up completely in the atmosphere.

**Meteorite** - a meteor that has survived entry through the atmosphere and has reached the Earth's surface. <http://www.meteorites.com.au/glossary.html>

## BEST NOVEMBER METEOR SHOWER

### Leonids

20 meteors/hour

Class 1 Major Meteor Shower



#### 2017 Conditions

Peak Day : November 17  
Peak Time : 11:31 EST  
Moon Phase : Waning Crescent  
Moon Age : 28 days (2% full)  
Sun Rise : 07:27 Set : 17:22  
Moon Rise : 06:23 Set : 17:20

Outlook for meteor shower: good.

The moon is nearing new and rises in the morning. Very little interference if any at all.

#### Leonids Information

Parent Body : comet 55 P/Tempel-Tuttle

Perhaps the most famous meteor shower the Leonids usually display low activity. On several occasions this shower has had epic outbursts.

## BEST DECEMBER METEOR SHOWER

### Geminids

120 meteors/hour

Class 1 Major Meteor Shower



#### 2017 Conditions

Peak Day : December 14  
Peak Time : 01:24 EST  
Moon Phase : Waning Crescent  
Moon Age : 25 days (16% full)  
Sun Rise : 07:53 Set : 17:16  
Moon Rise : 04:17 Set : 15:23

Outlook for meteor shower: pretty good.

Past last quarter the moon rises early in the morning. Good viewing most of the night until moonlight interferes.

#### Geminids Information

Parent Body : asteroid 3200 Phaeton

The finest annual meteor shower, very active. Observable nearly all night with a long lasting peak.



If you follow social media, then please remember that there are a variety of ways to interact with your friends from EIGGS.

**Facebook:** Please find, like and follow the Eastern Indiana Gem & Geological Society's page. [facebook.com/EasternIndianaGemGeologicalSocietyEIGGS](https://www.facebook.com/EasternIndianaGemGeologicalSocietyEIGGS) It hasn't been an active since last March, but it has potential. One day after posting our show dates, we had 190 people express an interest. Rock hounds are out there; we just need to reach them more effectively and consistently.

**Facebook Closed Group:** If you haven't joined the closed EIGGS Facebook group, please do so now. It is for club members only. News about club events and classes is usually posted there first. Club members also post great tutorials, online deals, equipment sales, tips and life events. Look up the EIGGS group.

**Pinterest:** EIGGS has a Pinterest account. If you are a Pinterest fan, you know how addictive it can be. There are a wide variety of boards to post to. <https://www.pinterest.com/EIGGSRichmond/>

**Web site:** Ummm... Have I mentioned [eiggs.weebly.com](http://www.eiggs.weebly.com) lately?

**EIGGS Events**

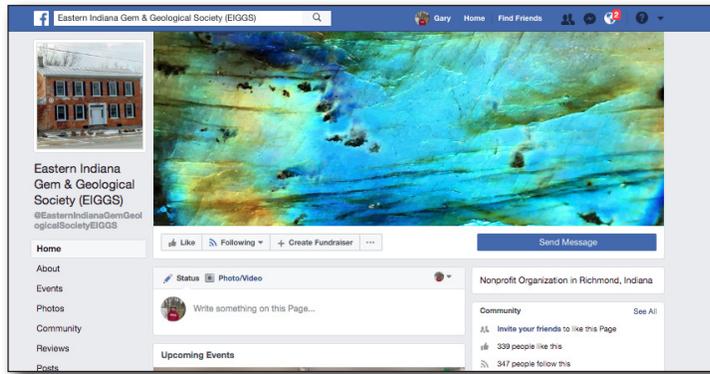


**EIGGS Closed Group (ask to join)**



**Eastern Indiana Gem & Geological Society (EIGGS) official page**

Follow it and refer your friends to it for news about the show, raffle prizes, silent auction items, public classes, and other items of interest.



**TEAMWORK: IT'S IN THE BAG**



■ Malessia Bowling, Erna Jacob and Lisa Nash bag stones for the grab bags.  
 ■ Nikki Merrill and Emily Gibson share in the group fun.

■ Stuffing grab bags, club members including Hailee Shaffer, Angie Shaffer, Bob Vetter, John Morse, Nikki Merrill, Emily Gibson, Danny Spurgeon and Malessia Bowling work together to complete their goal.



**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 [DDRockshop.com](http://DDRockshop.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.



The Indiana State Museum in Indianapolis explores the historical fascination with toxins in *The Power of Poison*. This prestigious national traveling exhibition, on loan from the American Museum of Natural History in New York, will be on exhibit until February 11, 2017.

From the promise of immortality to tales of healing powers and mysterious deaths, poison is a popular theme in legends and fairy tales. *The Power of Poison* examines the mystery and intrigue that surround nature's most powerful defense mechanism and how it can be used for both good and evil. Look on as Shakespeare's *Macbeth* witches brew up a poisonous potion to summon the future and find out what may be behind the Mad Hatter's madness in *Alice's Adventures in Wonderland*.

Did a snakebite really kill Cleopatra? And was it arsenic that ended the reign of Napoleon? Visitors can check out the Detecting Poison Theater to explore a real-world poisoning case that highlights the dramatic advances in toxicology and forensics since the 19th century. An interactive game invites visitors to examine evidence and see if they have what it takes to solve the mysteries behind three puzzling poisoning cases. Next, step into a fairytale scene to get up close to a giant "enchanted" book to learn more about poisonous plants and how they were once used.

History also shows a long record of plant and animal toxins being used as medical treatments. Studying how poisons affect human cells helps scientists figure out how to protect, repair, and heal them. *The Power of Poison* looks at the ways toxins are being studied as potentially lifesaving treatments. Visitors can check out live golden poison dart frogs and learn the deadly secret they use to keep from becoming dinner. And learn how some of your favorite tastes and smells are derived from chemicals intended to fend off predators.

"The Power of Poison is a great fit for the museum because it blends both science and culture, exploring poison's role in nature, myth and history as well as its impact on medicine," said Damon Lowe, senior curator of science and technology.

The *Power of Poison* is organized by the American Museum of Natural History, New York ([www.amnh.org](http://www.amnh.org)) and is supported by Barnes & Thornburg LLP and Uncle Bill's Pet Centers. The exhibition runs from October 21, 2017 to February 11, 2018. More information at: [www.indianamuseum.org/poison](http://www.indianamuseum.org/poison)

*Indiana State Museum press release*

## POISON EXHIBIT: A GEM WORTH SEEING

*It is amazing how gems, minerals and fossils figure into our history as charms, talismans, poisons and antidotes, and there are certainly things for rockhounds to learn though this exhibit. Below is just a sampling of items of interest. Also, remember, there is a full floor of rocks and fossils at the museum, too! (Captions are from the exhibit.)*

### Fossil Crinoids ▶

Hundreds of years ago in England, bits of fossilized sea animals called crinoids were strung as beads called "Saint Cuthbert's beads" or "fairy money." In some parts of Europe there were considered antidotes to poison and embedded in special anti-poison cups.



### ◀ Red glass

In Northern Europe during the 1700s, goblets like these were colored deep red by adding gold to the glass. The gold was also thought to detoxify poisons.

### ◀ Agate cup

Stone cups made from striped agate, colorful rock crystal or jade were prized in Europe because they were said to free wine from poisons.

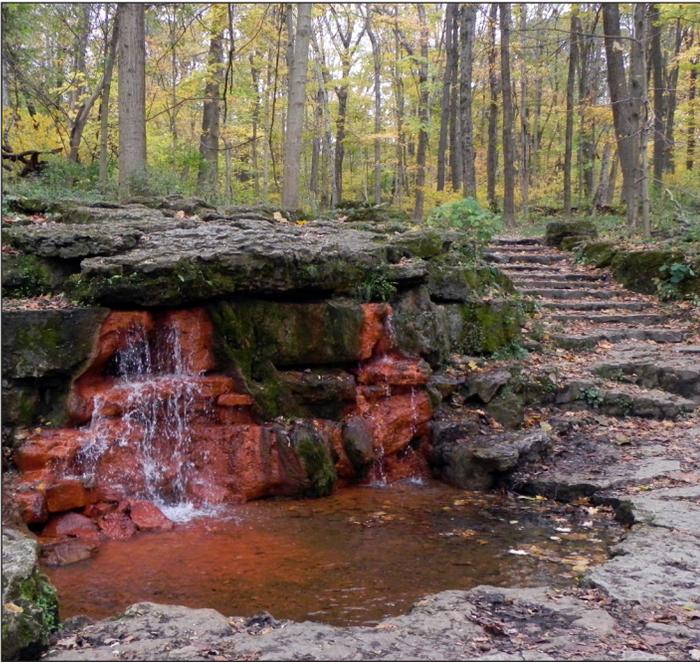
### Ammonite fossils ▶

This spiral fossil comes from the shell of an ammonite, and extinct animal related to a modern nautilus. Such fossils were known as "snakestones" because of their coiled shape, and were thought to have curative powers. Some artisans even carved snake heads for them to enhance the resemblance.





# ON THE ROAD: GLEN HELEN, YELLOW SPRINGS, OH



**G**len Helen Nature Preserve in Yellow Springs, Ohio, is a legacy of Hugh Taylor Birch, who, in 1929, donated the wooded glen to his alma mater, Antioch College, in memory of his daughter, Helen.

The Glen is a valuable resource for hiking, birding, and exploration, and it is an interesting place to explore midwestern rock formations. The Glen now encompasses 1,000 acres, all accessible from a 25-mile network of footpaths, providing views of spring wildflowers, 400 year-old trees, limestone cliffs with waterfalls and overhangs, and the beautiful yellow spring for which the town is named.

Yellow Springs was originally settled as a utopian society, and the village takes its name from Glen Helen's natural spring which is rich in iron ore and stains the rocks a reddish orange.

The settlers believed the spring had curative powers, and the Shawnees thought it held healing waters. Tecumseh, leader of the Shawnee nation, was believed to frequently visit the spring. According to William Galloway's *History of Glen Helen*, other famous chiefs, including Blue Jacket, Black Hoof, Blackfish and Little Turtle, also drank water from the spring, which was located just off the "Bullskin Trace," a well-used Native American path which extended from Lake Erie to the Ohio River. For a while the town became a resort town, known for healing waters.

During the Great Depression, the Glen benefited from work done by the Civilian Conservation Corps. In the mid 1930s trails, rock steps and stairs were built. The stairs leading down to the bottom of the valley from the main entrance totaled 133.

## The Yellow Spring

The famous spring carries 60 gallons of iron-rich water to the surface every minute. Prior to 1948, the spring flowed into a large pool. Visitors once bathed in its "healing" waters. ([captions from Glen Helen trail map](#))



## Cascades on Birch Creek

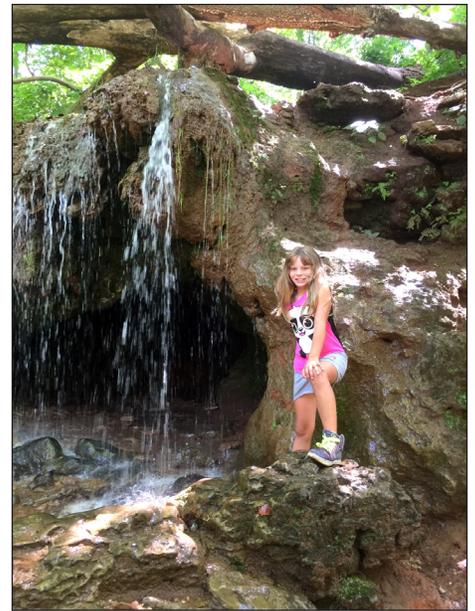
This waterfall formed because the Cedarville dolomite rock that forms the top layer is harder than the Springfield dolomite below it. The stone bridge upstream from the Cascades is part of an old stagecoach route. This bridge was part of a larger covered bridge destined to be destroyed by the creation of the Caesar Creek Reservoir in New Burlington. It was relocated here in 1975.



Hailee Shaffer checks out Pompey's Pillar.

## Pompey's Pillar

This large rock column has split away from the cliffs and is slowly creeping down the slope. According to the U.S. Geological Survey, "Pompey's Pillar is a natural pillar in Glen Helen Nature Preserve in Yellow Springs, Greene County, Ohio. The area's lithology is in the Cedarville, Springfield and Euphemia Dolomites undivided. Bed-rock is from the Silurian Geologic Period."



Hailee Shaffer poses outside the Grotto

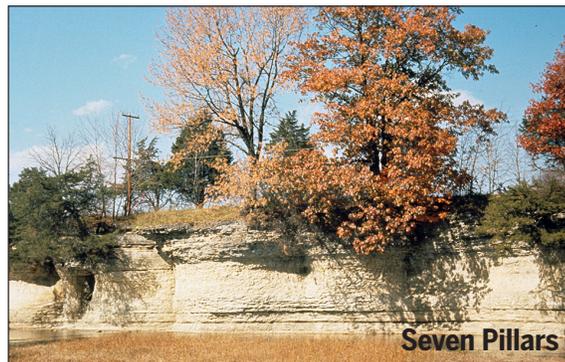
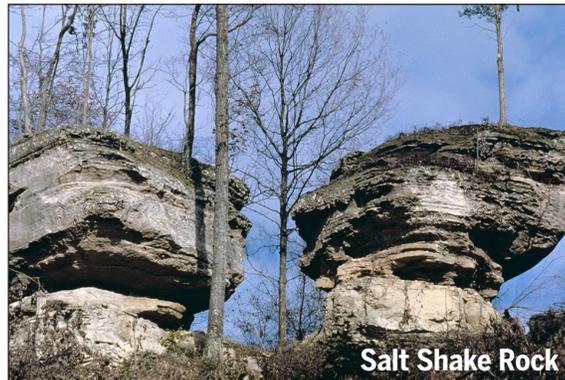
## Travertine Mound and Grotto

The hill below the Yellow Spring is made of reddish travertine (calcium carbonate stained by iron) that precipitated from the water of the Yellow Spring. A small waterfall coming off the top of the travertine mound forms the Grotto.

## Standing Rocks: Ancient Remnants of Erosion

Standing rocks are pillarlike masses of rock that stand alone, detached from the main body of bedrock in an adjacent cliff or hillside. There are several standing rocks in Indiana: Jug Rock, near the town of Shoals in Martin County; Salt Shake Rock, near Sulfur in Crawford County; and Pompey's Pillar, near Napoleon in Ripley County. The Seven Pillars of the Mississinewa, near Peru in Miami County, are similar in structure but are still attached to the parent rock and, therefore, are almost, but not quite, standing rocks.

Because standing rocks are erosional remnants shaped by frost, plant roots, and running water acting on joints in the rock, continued weathering and erosion will ultimately destroy them. Pedestal Rock in Shades State Park (located in Montgomery, Parke, and Fountain Counties) collapsed after a severe storm. Only a pile of shattered sandstone slabs is left.





Credit: © Olivier Grunewald

## Neon blue lava pours from Indonesian volcano

You've heard of "red hot" and "white hot" to describe searing temperatures. But what about "blue hot"?

That's the surreal hue of Indonesia's Kawah Ijen Volcano, which glows with an otherworldly "blue lava" at night. The mountain contains large amounts of pure sulfur, which emits an icy violet color as it burns, turning the rocky slopes into a hot (at least 239 degrees Fahrenheit), highly toxic environment.

Read more at <https://www.geologyin.com/2014/06/spectacular-neon-blue-lava-pours-from.html>



Credit: © www.geologyin.com

## Unique geology of lavacicle caves

The generic term "lavacicle" has been applied to lava stalactites and stalagmites indiscriminately, and evolved from the word "icicle."

Lavacicles are formed in lava tubes while lava is still active inside. The mechanism of formation is similar to that of limestone stalagmites.

Essentially, it is still the deposition of material on the floors of caves; however with lava stalagmites, formation happens very quickly in only a matter of hours, days, or weeks....

Read more at <https://www.geologyin.com/2016/03/the-geology-of-lavacicle-caves.html>



Credit: © bennymarty / Fotolia

## Yellowstone eruptions altered global climate

A new geological record of the Yellowstone supervolcano's last catastrophic eruption is rewriting the story of what happened 630,000 years ago and how it affected Earth's climate. This eruption formed the vast Yellowstone caldera observed today, the second largest on Earth.

Two layers of volcanic ash bearing the unique chemical fingerprint of Yellowstone's most recent super-eruption have been found in seafloor sediments in the Santa Barbara Basin, off the coast of Southern California.

Read more at <https://www.sciencedaily.com/releases/2017/10/171026085804.htm>



Credit: © Jeff White

## How treatments alter gemstone colors

Treatment refers to any process other than cutting and polishing that improves the appearance of the color or clarity, or that are used to alter the appearance (color, clarity or phenomena), durability, value, or supply of a gemstone.

Today, most gems are treated to improve appearance and to enhance the color or clarity of the stone. Depending on the type and extent of treatment, it can affect the value of the stone.

Read more at <http://www.geologyin.com/2017/11/how-color-or-clarity-of-gemstones-is.html>



Credit: © Mark Garlick, via Science Source

## Dinosaurs could have survived asteroid hit

Dinosaurs reigned supreme for more than 160 million years. Their dynasty ended 66 million years ago when an asteroid crashed into the Yucatán Peninsula, paving the way for mammals — and eventually humans — to inherit the Earth.

But had the extraterrestrial impact happened nearly anywhere else, like in the ocean or in the middle of most continents, some scientists now say it is possible dinosaurs could have survived.

Read more at <https://www.nytimes.com/2017/11/09/science/dinosaurs-asteroid-chicxulub-extinction.html>



Credit: © Joe Budd/Rob Lavinsky/iRocks.com

## 10 unbelievable mineral specimens

This stunning specimen is described as Chalcedony on Chrysocolla stalactites (pocket). With a blue-green chalcedony-crust exterior, an unusual pocket that opens to reveal the highly textured interior, and assorted quartz-covered chrysocolla stalactites the color of icy glaciers, the mineral is truly a unique sight to behold.

Read more at <http://www.geologyin.com/2017/04/10-spectacular-minerals-you-wont.html>



Jamie Terhaar & Naomi Jones



Erna Jacob



Mary Ann Morse

## AREA CRAFT BAZAARS & SHOWS

*'Tis the season for craft fairs, and while you are out, take time to support your fellow club members at the following events.*

### FRIDAY, NOV. 10 & SATURDAY, NOV. 11

#### YWCA Christmas Village

Wayne County Fairgrounds, Richmond  
Friday, Nov. 10; 9 a.m.-8 p.m.  
Saturday, Nov. 11; 9 a.m.-8 p.m.

✓ *Angie & Hailee Shaffer, Mona Jones, Suzanne & Randy Siefert*

### SATURDAY, NOV. 11

#### Delta Theta Tau Craft Show

Franklin County High School  
Brookville, IN; 9 a.m.-3 p.m.

✓ *Joy Ingerman*

### WEDNESDAY, NOV. 15

#### Holly Fair

Expo Hall, Connersville; 8 a.m.-4 p.m.

✓ *Joy Ingerman*

### SATURDAY, NOV. 18

#### Vine Street Handmade Market

Expo Hall, Connersville; 8 a.m.-5 p.m.

✓ *Joy Ingerman*

### FRIDAY, DEC. 1 & SATURDAY, DEC. 2

#### Christmas in Centerville

Friday, Dec. 1; 12-5 p.m.

Saturday, Dec. 2 from 10 a.m.-6 p.m.

✓ *Danny Spurgeon, Erna Jacob, Mona Jones, Dave Straw, Mary Ann Morse, Missy Killion, Malessia Bowling*

### SATURDAY, DEC. 2

#### Brukner Nature Center

##### Winter Arts & Crafts Show

Brukner Nature Center, Troy, OH; 9 a.m.-4 p.m.

✓ *Judy Burton*

### SATURDAY, DEC. 2

#### Hagerstown Hometown Christmas

Main Street, Hagerstown

9 a.m.-8 p.m.

✓ *Suzanne & Randy Siefert*

## SHOUT OUT: THANK YOU

*Maintaining the rock club is a group effort. Thanks to everyone who puts in extra time at the club, trying to make it a better place for everyone. If you ever wonder how YOU can help out, please ask a board member!*

**Mark Lisota, John LaMont, Dave Straw, Mary Ann Morse:** Thank your hard work and leadership as club officers for 2017

**Nov. meeting attendees:** stuffing grab bags

**Dave Straw:** mowing the yard (repeatedly)

**Danny Spurgeon:** Viking weaving workshop & using his building for a holiday sale

**Judy Burton:** organizing the grab bag brigade & donating batteries

**Randy Patrick:** writing for this issue & volunteering to present at the December meeting

**Dave Straw:** contributing a story & photos for the October issue

**Jessica Moody:** contributing photos & information for the October issue

**Tony Rotondo:** hosting the Night at the Museum event

**John & Mary Ann Morse, Nikki & Tim Merrill, Angie, Bobby & Hailee Shaffer:** attending the first-ever Night in the Museum event

**Joe Wirrig:** donating rock identification presentation boards



## 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!

# UPCOMING SHOWS

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

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

**Nov. 10-12—GRAY, TN:** Annual show; Kingsport Gems & Minerals Society, Appalachian Fairgrounds; Building # 1, 100 Lakeview Street; Fri. 10-6, Fri. 10-6, Sun. 12-5; Adults \$3, Students \$1, Children 6 and under free; contact Robert Morgan, 181 Harmony Acres Drive East, Jonesborough, TN 37659, (423)-956-9486; e-mail: [morganjewellery@msn.com](mailto:morganjewellery@msn.com)

**Nov. 11—QUINCY, IL:** Annual show; Gem City Rock Club of Quincy, Quincy Mall Community Room; 32nd and Broadway; Sat. 10-5; Free Admission; Minerals, Geodes, Fossils, Wire Wrapping, Flint Knapping, Childs Activities.; contact Brad Fanning, 1344n.1720th, Fowler, IL 62338, (217)-617-2751; e-mail: [bfanning58@yahoo.com](mailto:bfanning58@yahoo.com)

**Nov. 11—MOUNTVILLE, PA:** Annual show; Lancaster County Fossil and Mineral Club, Trinity Reformed United Church of Christ; 450 W. Main St.; Sat. 9-4; Adults \$3; Annual club show. A smaller, more intimate show with excellent, friendly vendors.; contact Eric Miller, (717)-339-9338; Web site: <https://www.facebook.com/LancasterFossilandMineralClub>

**Nov. 11-12—MELBOURNE, FL:** Annual show; Canaveral Mineral and Gem Society, Melbourn Auditorium; 625 East Hibiscus Blvd; Sat. 10-5; Admission \$5; contact Don McLamb, 570 Seabreeze Drive, Indialantic, FL 32903, (321)-723-2592; e-mail: [fdjmc@aol.com](mailto:fdjmc@aol.com); Web site: [www.canaveral-mgs.com](http://www.canaveral-mgs.com)

**Nov. 11-12—FREEPORT, IL:** Annual show; Northwest Illinois Rock Club, Highland Community Center, Student Conference Center; 2998 W. Pearl City Rd.; Sat. 9-5, Sun. 10-4; Freewill Donation; Dealers in minerals, fossils, jewelry, beads, and more, speakers, exhibits, kids' activities, and geode cracking.; contact Brian Green, (815)-745-2228; e-mail: [bgreen57@hotmail.com](mailto:bgreen57@hotmail.com)

**Nov. 18-19—LEBANON, PA:** Annual show; Mid Atlantic Gem and Mineral Association, Lebanon Expo Center; 80 Rocherty Road; Sat. 10-5, Sun. 11-4; Admission \$5, Children under 12 are free; Gem Miner's Holiday! Retail and wholesale exhibition of beads, minerals, fossils, gems, and jewelry. Gifts and crafts with hourly door prizes.; contact Jill Feder, P.O. Box 266, Sellersville, PA 18960, (908)-720-1774; e-mail: [jillfeder.jf@gmail.com](mailto:jillfeder.jf@gmail.com); Web site: [www.gem-show.com](http://www.gem-show.com)

**Dec. 9-10—FRANKLIN, TN:** Annual show; Mid-Tennessee Gem and Mineral Society, Inc., Ag Exp Park; 4215 Long Lane; Sat. 9-6, Sun. 10-5; Adults/Seniors \$5, Students \$1, Children Free; Dealers plus classes, speakers, exhibits, demonstrations, silent auction, and door prizes hourly. Show features handmade silver, stone, and Native American jewelry, lapidary and faceting rough, slabs, fossils and mineral specimens, supplies, tools, and more.; contact Mardy Smith, TN, (615)-417-1416; e-mail: [show@mtgms.org](mailto:show@mtgms.org); Web site: [www.MTGMS.org](http://www.MTGMS.org)



■ Royal Imperial Jasper, 2016 Agate Expo; Cedarburg, WI

**Feb. 16-18—INDIANAPOLIS, IN:** GeoFest, the 16th Annual Indiana State Museum Fossil, Gem and Mineral Show. Annual show; Indiana State Museum and Historic Sites, Indiana State Museum ; 650 West Washington Street; Fri. 10-5; Adults \$14.95, Seniors \$13.95, Students \$12.95, Children \$9.95; Retail show will include dealers, regional clubs, and adult and kid's activities in a beautiful museum building. ; contact Peggy Fisherkeller, 650 West Washington Street, Indianapolis, IN 46204, (317)-232-7172; e-mail: [pfisherkeller@indianamuseum.org](mailto:pfisherkeller@indianamuseum.org)

♥ **March 3-5—Richmond, IN:** Annual show; 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, 912 Kent Lane, Troy, OH 45373, (937) 339-1966; e-mail: [jleeburton@woh.rr.com](mailto:jleeburton@woh.rr.com)

**April 6-8—INDIANAPOLIS, IN:** Annual show; Treasures of the Earth Gem & Jewelry Shows, Indiana State Fairgrounds - Agriculture/Horticulture Building; 1202 East 38th Street; Fri. 10 a.m.-6 p.m., Sat. 10 a.m.-6 p.m., Sun. 11 a.m.-5 p.m.; Adults \$5 (Good all 3 days), Children under age 16 Free; Jewelry makers, goldsmiths and silversmiths, 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 and fossil dealers. Hourly door prizes including a ring with a precious stone that will be given as a Grand Prize. Contact Van Wimmer - Show Director, 5273 Bradshaw Road, Salem, VA 24153, (650) 384-6047; e-mail: [vawimmer@verizon.net](mailto:vawimmer@verizon.net); Web site: [www.toteshows.com](http://www.toteshows.com)

**Apr. 28-29—Troy, OH:** Annual show; Miami County Gem and Mineral Club (Formerly Brukner 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 admission; Mineral identification, 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/>

YWCA OF RICHMOND - GENESIS PRESENTS

# Christmas Village Craft Show

*Dedicated to eliminating  
racism, empowering  
women and promoting  
peace, justice, freedom and  
dignity for all.*



YWCA OF RICHMOND -  
GENESIS

15 South 11th Street  
Richmond, In 47374

Phone: 765-966-0538  
Fax: 765-966-0530

Friday, Nov. 10, 2017 9am~8pm  
Saturday, Nov. 11, 2017 9am~6pm

Admission \$2

Children 12 and under free

100+ booths

Lunch available

Located at :

Kuhlman Center  
861 Salisbury Rd  
Richmond, Indiana 47374

eliminating racism  
empowering women  
**ywca**

# MANNING'S ROCK SHOP

## HOLIDAY OPEN HOUSE



Fri. Nov. 17, & Sat. Nov. 18, (10- 5)

Sun. Nov. 19, (12-5)



Salt lamps, minerals, tumbled stones, rock tumblers & supplies, crystals, jewelry, & much more!!!

# Christmas in Centerville

**Richmond  
Indiana  
Eastern Gem &  
Mineral Society  
Club  
Members  
*selling at the*  
Dill House  
111 S. Morton Ave.**



**December 1<sup>st</sup>  
12 - 5 p.m.**



**December 2<sup>nd</sup>  
10 a.m. - 6 p.m.**

**Sterling Silver Jewelry  
Hand Knitted Items**

**Genuine Stone Gem Trees  
Christmas Wreaths**