

Eastern Indiana Gem & Geological Society

October 2016

ROCK PICKINGS

P.O. Box 1724 • Richmond, IN 47375 • eiggs.weebly.com • facebook.com/EasternIndianaGemGeologicalSocietyEIGGS

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Memberships:

Annual dues \$15 Individuals \$20 Families

Please send dues to:

EIGGS PO Box 1724 Richmond, IN 47375

3 Next meeting: Thursday, November 3, 6:30 p.m.

ONAL FOSSIL DA Hello, Rockhounds:

Important reminder: Our next club Clean-Up Day is Saturday, October 22 from 10 a.m.-1 p.m. Projects include resurfacing and painting the upstairs hallway, cleaning behind small garage and closing up the wall around the air conditioner.

FOSSIL SHOW & TELL

When: at Nov. 3 meeting Who: Club members What: In honor of National Fossil Day, bring a favorite fossil to share with others in the club.

SCIENCE + PREHIST

This is a great chance to get to know your fellow club members, see some interesting stones and hear some good stories. Hope to see you there! We received a nice thank-you card from Charlene Reidenbach for all of the get well cards, flowers and visits. She is doing much better and receiving visitors at The Springs of Richmond.

As some of you know, it has come to our attention that the floor in the meeting room and the hallway by the front entryway is structurally compromised and needs to be replaced ASAP. We are working on a plan to replace the floor. Once we have a plan in place, we will inform the members.

Mark

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Wire-wrap workshop 10/29



Learn to wire-wrap from Deb Chagares

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Fossil hunting in Richmond



Brachiopods at Richmond Fossil Park

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Pink stones for October



Watermelon tourmaline

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AFMS Code of Ethics



Learn your collecting responsibilities

Members present

Malessia Bowling, Judy Burton, Scott Gibson, Marla Harsh, Joy Ingerman, Erna Jacob, Barbara Kuhlman, Susan Kuhlman, John LaMont, Mark Lisota, Jim Lucas, Marty Lucas, Jeanette Lunsford, John Morse, Mary Ann Morse, Mike Ragen, Deanna Smith, Danny Spurgeon, Dave Straw, Jamie Terhaar, John Terhaar, Johnathon Terhaar, Robert Vetter, and perhaps others. (The list was not recorded this month).

Meeting was called to order by Mark Lisota, President. Mark read a note from Charlene Reidenbach thanking club members for their support in her recent illness. Members were reminded to sign a card for Charlene. John LaMont gave the group an update, saying that Charlene is making good improvement.

Treasurer's report: Dave Straw

Income for the month was \$2,389, including \$80 from dues, deposits from show dealers, shop fees, soda and miscellaneous. \$744 was spent. This included newsletter printing and postage, utilities, building maintenance supplies, a new weed trimmer, and other miscellaneous expenses.

Building repairs:

Scott Gibson has done a review of building condition, and has

recommended that floors in the back half of the meeting room and the entryway need to be replaced immediately for safety reasons. His estimate for cost of the project is under \$5,000. This will be done by a professional crew, hopefully very soon. A question was asked about the women's bathroom, and Scott indicated that it would not require replacing of the floor. He volunteered to work on it.

Show report:

Judy Burton asked about grab bags (which are normally prepared in November). We have 100, and need another 100. Judy will have label cards printed. We will delay making the bags until January so John LaMont will have the opportunity in December to purchase some inexpensive cabs to add some color to the contents. There was a question about the condition of the samples in the existing bags, as the gluing process was not done very well last year. This should be checked. John LaMont reported that money is coming in from dealers, and that there will probably be two new dealers this year, one with opals, and maybe one with amber.

Clean-up Day:

| Eastern Indiana Gem & Geological Society

Mark reminded members of the work day on October 22 from 10 a.m. – 1 p.m.

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 97 member 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.

! 	Please check your membership level Family Membership \$20 Single (age 16 and older) \$15
l	Name(s)
	Street Address:
l	City: State: Zip:
l	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

Annual Membershin Renewal Form

Rock Pickings: October 2016

CLUB CLEAN-UP DAY TO BE HELD OCT. 22



■ The suspended ceiling in the lapidary lab needs some maintenance, and the room itself could use some general cleaning and organizing. No matter your skill level, there will be something for you to help with during the Oct. 22 Club Clean-up Day.

onsider this your invitation to come on out to the EIGGS Club Clean-up Day, Saturday, October 22 from 10 a.m. until 1 p.m.

There are a wide variety of projects on the "to do" list, from skilled work to general labor and cleaning. Lunch will be provided for all who attend and the time really does fly when we're having fun!

Below are some of the items that should be addressed at some point, although not all of them will be completed at this work day.

UPCOMING PROJECTS:

- •re-seal garage roof
- finish air conditioner installation/sealing
- scrape & paint hallway & stairway
- re-attach electrical lead-in to building
- replace outside doors, upstairs and downstairs
- finish work on the outside cellar door and stairs
- continue roof maintenance to find/seal leaks
- fix sagging lapidary lab ceiling
- clean eaves and gutters
- •clean out rock garden area
- fix women's restroom ceiling & floor
- remove garage ceiling insulation
- brace soft spot in hall floor
- examine balcony bracing
- new sign for outside the building

WIRE WRAPPING WORKSHOP, OCTOBER 29

What: Wire-wrapping class When: Oct. 29, 10 a.m.-2 p.m.

Who: Club Members

Supply List: *Participants must bring their own supplies*

- Square & half-round wire (see story for details)
- Flat nose pliers (no gator-teeth)
- Round nose pliers (no gator-teeth)
- Cutters
- Ruler
- Fine tip Sharpie marker
- Painters tape (blue is good)

The following would be useful, (but not necessary)

- Small file (a nail file)
- Polishing cloth
- Mouse pad
- · Small knife or pick to lift wires
- Small dowel to flatten wires
- Bail gauge
- Nylon jawed pliers

ire-wrapping can turn your cabochons into wearable art. Learn the techniques to make pendants, earrings or other ornaments at a wire-wrapping workshop offered Saturday, Oct. 29, from 10 a.m.-2 p.m. at the EIGGS club house. (You may bring snacks or lunch.)

Deb Chagares will teach this members-only class. The class will cost \$30 per participant. Enrollment is limited to 15 people, so please register in advance. To register, send an e-mail to deb@chagaresphotography.com

You may pay on the day of the class. You will need to bring your own supplies (see list). Deb will also have some extra tools available for participants to use.

Deb suggests purchasing craft wire from www.ParaWire.com. They have low prices and a variety of colors to choose from. They do have a minimum order, so you might order with a friend. They ship very quickly, too.

Go to ParaWire.com, then navigate to the Craft Wire/Shaped Wire section. You should purchase:

21-gauge **SQUARE** wire for framing your piece & 18-gauge **HALF-ROUND** wire for binding it.



pendants by Deb Chagares photos by Jim Chagares

ASO2

ARTISANS BAZAAR FEATURES CLUB MEMBERS

Hughes, Naomi Jones and Dave Straw, have been selected to take part in the Autumn Artisans Bazaar, November 4 & 5.

The Bazaar is a juried arts and crafts show which will take place at the Red Barn at the Wayne County Historical Museum.



The show will feature the works of over 20 local artists. Food and drinks will be available as well.

The hours are Friday, Nov. 4, 5:30-9 p.m. & Saturday, Nov. 5, 9 a.m.-3 p.m.

Participants

Freespirit Collection - Amy Hughes

Naomi Jones - wire woven & wire-wrapped jewelry

David Straw - polyhedral stone sculptures

The Headband Girl -Jen Hudnall

Diana Pappin - photography

Katie Kitchen - burlap prints & decor, signs, custom prints

Tim Passmore - handcrafted wood items

The Clever Gift - Joann Quinones & Tracy Lautzenheiser

Lucky You Design Co - Stephanee Johnson

Julie Freeman - ceramic lanterns

June Cat Cards - Emily Kendall

Ribbons and Robots - Katie Seitz

Heather B Leaves - hand cast concrete leaves

Old Iron - George Stallings

Elmtree Pottery - Elisha Frazier

Pens and More

Kelly Finch - "eclectic items of fancy"

Grey Barn Candles - Mary Porfidio

Ply Fiber Arts

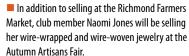
Strange White Moth - Sam Purcell

Sweet Annie Soapworks - Julie Shank

Shawnda Bond - antique sock knitting machine demo









- At the Bedford gem and mineral show, club member Dave Straw talks to a customer. Dave will be selling his polyhedral stone sculptures at the Autumn Artisans Fair.
- Club member Amy Hughes sells her creations at Vintiques in New Paris, Ohio, and was also selected to be a vendor at the juried Autumn Artisans Fair.



EVIDENCE OF PREHISTORIC GHOSTS?



by Dr. Elizabeth Rhenberg

Visiting Assistant Professor of Geology, Earlham College

rince the Permian, strange trace fossils have been found in the sandstones representing beach facies (the character of a rock expressed by its formation, composition, and fossil content). These trace fossils are cylindrical tubes that form vertical burrows and branch extensively within these rocks. The sides of the burrows have a bumpy texture, as if the animal had built it with bricks. What strange creatures made these traces?

In truth, these burrows, known as Ophiomorpha, are evidence that a particular animal, the ghost shrimp, has been living quite happily in the high surf zone since before the dinosaurs. Trace fossils are evidence of behavior, and though it is not the exact same animal that lives today, they were close relatives.

The vertical burrows are indicative of a high energy environment, where the animal would retreat to when tide was high. At low tide, the animal could leave its burrow and safely look for food. The bumpy texture is due to the ghost shrimp reinforcing the burrow walls with pellets, which is a polite way to say it lined its home with its own feces.



Ophiomorpha burrow found near Chaco Canyon, New Mexico

This is the first in what we hope is a series of short articles from students or staff in the Earlham College Department of Geology.

STOCK UP AT 'TUCSON OF TROY' SALE



■ In October the Brukner Gem and Mineral Club (Troy) began meeting at the Troy-Hayner Cultural Center. EIGGS members are invited to visit their "Tucson of Troy" / Novelty Night on Nov. 2 at 7 p.m. Rocks, slabs, cabs, jewelry and other items will be on sale. (photo from Ohio.org)

EIGGS club members and their friends are invited to the Brukner Gem & Mineral (Troy) Club's annual "Tucson of Troy" Novelty Night. Mike Manning says it is a "must attend" event. Club members will be selling a large variety of items, from rocks and slabs to finished jewelry pieces. Additionally, attendees can participate in silent auctions and a live auction, too.

What: "Tucson of Troy" / Novelty Night When: Wednesday, November 2 at 7 p.m.

Where: Troy-Hayner Culture Center (near the Troy Library)

301 W. Main Street; Troy, OH 45373

Phone: 937-339-0457

Why: Members will be selling rocks, slabs, minerals,& finished jewelry. There will be silent auctions, a live auction and fun to be had by all.

There is no cost to sell but a donation to the local food bank is encouraged.

* Please bring a canned good to donate.*

PARTICIPANTS ENJOY VIKING WEAVING CLASS

On Sept. 27, Danny Spurgeon offered a Viking weaving class at the club. Six club members and a guest attended the session, and in two hours each of them had learned the basics of Viking weaving and had completed a bracelet.

After pulling their copper wire weavings through the drawplate, Jeanette Lunsford, Libby Adams and Malessia Bowling show off their new Viking weave bracelets.





Wire in hand, Marla Harsh and Erna Jacob use dowel rods to complete their first Viking weaving project.



Checking the tape measure, Malessia Bowling confers with Danny Spurgeon to decide if her Viking chain would be long enough for a bracelet or if she needed to add more length.



■ To condense her chain and tighten the weave, Libby Adams draws it through a hole in the drawplate.



■ Taking time out for a photo at the Viking weave workshop, club member Corky Zinkan works beside her sister-in-law Susan Holscher, who was visiting from Texas.

LAPIDARY LAB USAGE & HOURS

Members using the club's equipment are required to sign a liability waiver and attend at least SIX regular club meetings a year.

Participants must be trained (& recertified) in proper equipment usage.

There is a \$2 fee per lab session for equipment usage & maintenance.

Please remember to use the sign-in book.

Tuesdays 6-8 p.m.

This lab is perfect for beginners and those with intermediate skill levels since there are experts on hand to teach basic and advanced skills.

Thursdays 6-8 p.m.

The lab is usually open on Thursdays. Call or text Deanna Smith 765-914-4811 or Alma Glisson 937-231-3024 to be sure someone will be there. **Sundays** 6-9 p.m.

The lab is sometimes open on Sundays. Call or text Missy Killion in advance to be sure someone will be there. Her number is 765-960-7635



ON THE ROAD: RICHMOND FOSSIL HUNTING

While Oct. 12 was National Fossil Day, you don't need a special day to find fossils, nor do you have to travel very far. The Richmond Convention & Tourism Bureau suggests the following sites for local fossil hunting.

Richmond Fossil Park (on Bridge Avenue, just west of Sim Hodgin Parkway in Richmond) Collect fossils from the rubble pile and on the near

shore of the creek. A nice outcrop of the Whitewater Formation is visible on the far side of the creek.

Whitewater River Valley
Gorge Trail (between Test Road
& Waterfall Road, Richmond)
Collect loose fossils along the
trail or in the stream bank at
the base of Thistlethwaite Falls.
Thistlethwaite Falls In the
early 1800s, Timothy Thistlethwaite blasted a new channel in the

West Fork of the Whitewater River to direct the water over this rock formation to provide more waterpower to his nearby sawmill. This waterfall is located just south of Waterfall Road across from Springwood Park.

Fairfield Causeway Road (just west of Brookville Lake, Brookville) The



■ The Richmond Fossil Park is a popular location for children to find fossils. photo from facebook.com/fossilhunt

Waynesville (eastern outcrop) and Liberty (western outcrop) formations outcrop along the south side of the Fairfield Causeway Road. Park near the lake and walk up the hill. Watch out for traffic and do not climb on the outcrops.

Fossils That Can Be Found In The Whitewater Gorge

BIVALVES - Bivalves like clams, scallops, and oysters had shells that dissolved soon after burial. Fossil bilvalves are typically impressions of the shells in mud or casts created when mud filled an empty shell.



BRACHIOPODS - Many different kinds of brachiopods are found in the Whitewater Valley. The fossils have two ridged, hinged shells with a small hole in the shell near the hinge. A stalk protruded through this hole and fastened the animal to the sea floor. Brachiopods ate by filtering food from the water.

BRYOZOA - These twig- or net-like fossils were home to thousands of tiny animals. It is common to find fossils covered in a thin mesh of bryozoa. Bryozoans fed on microscopic organisms and plants by projecting tentacles with tiny moving filaments into the water through the holes in their external skeletons.

CEPHALOPODS - squid-like animals that lived in chambered cone-shaped shells. Nautiloids reach up to 15 ft in length and feed on smaller creatures they caught in their tentacles.



CORALS - Both horn-shaped and encrusting, colonial corals are found in the area. Colonial corals have star-shaped pores which are much larger than those of bryozoa. Like modern corals, these animals did not move, but captured food from seawater.

CRINOIDS - Related to modern starfish and sea urchins, crinoids are sometimes referred to as 'sea lilies' since they look like flowers that were attached to the sea floor by a flexible stalk. Crinoids fed by filtering food from the sea water with their feather like arms. They were fairly delicate and tended to break apart when the organism die, so typically only individual stem segments are found.

GASTROPODS - Like bivalves, most snails shells were not preserved, so the fossils found are mostly shell fillings or impressions. Fossil snails, like their modern cousins, crawled around the bottom scraping algae and other small food particles from rocks and plants.

TRILOBITES - Trilobites are extinct, bug-like scavengers that found food in the sea floor muds. Like modern insects and crabs, trilobites shed many jointed skins as they grew. These fragile skeletons were easily broken apart by waves, so usually only pieces are found.



Fossil Passport

from https://sites.google.com/site/whitewatervalleyfossilhunt/

ong before woolly mammoths roamed the frozen plains, long before dinosaurs existed, Indiana was covered by a shallow sea teeming with life. The fossils found in the Whitewater Valley give us some idea of what life was like in Indiana 445 million years ago.

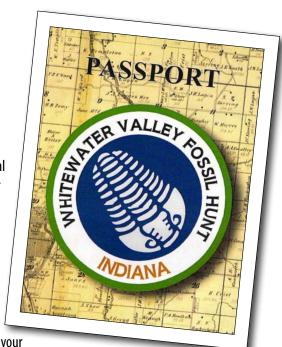
The Whitewater Valley Fossil Hunt is a free passport program designed to educate visitors about our fascinating past and promote experiential tourism in eastern Indiana. The project is a combined effort of the Wayne County Convention and Tourism Bureau, Earlham College Geology students, and interested volunteers.

To participate in the program:

Step 1 Pick up a Whitewater Valley Fossil Trail Passport at the Old National Road Welcome Center in Richmond or at the Joseph Moore Museum on the campus of Earlham College.

Step 2 Explore the Whitewater Valley and collect at least five fossils.

Step 3 Bring your passport and fossils to the tourism bureau or the Joseph Moore Museum to receive your completion stamp and patch.



GLACIAL ERRATIC SIGHTING: HUESTON WOODS



n last month's newsletter, the Indiana Geological Survey's GeoNote page covered glacial erratics. After having read about the glacial erratics in the newsletter on a Friday, we were surprised to see one Saturday morning near the Hueston Woods Nature Center in Oxford, Ohio. The boulder serves as a monument for the dedication of Acton Lake and a plaque is affixed to it.

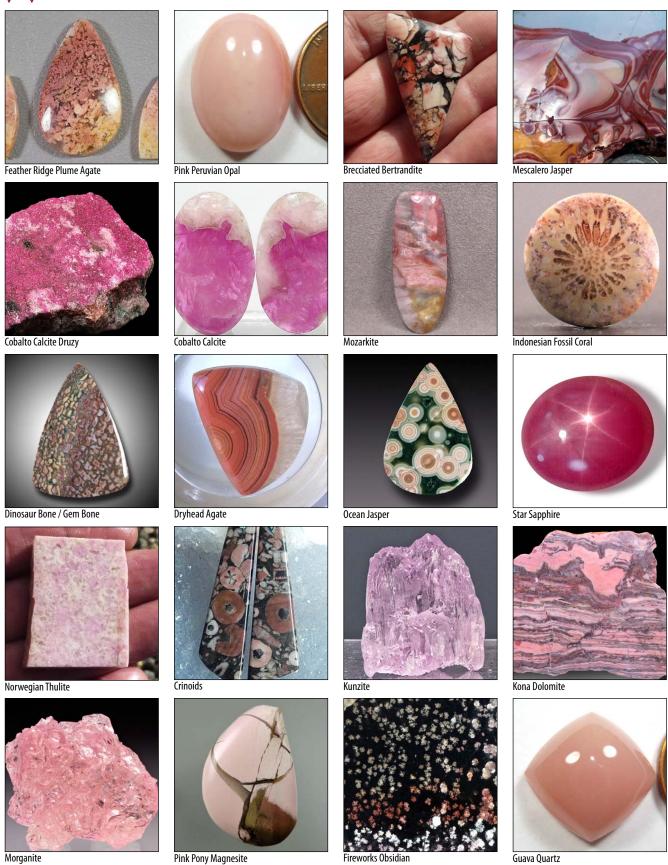
According to IGS, "erratics are rock fragments ranging in size from cobbles to massive boulders, that eroded from a bedrock outcrop and were transported by glacial ices. These rocks are deposited some distance down-ice in an area of differing bedrock. They tend to be faceted with a characteristic 'bullet' shape."



- Knowing the photo would probably wind up in this newsletter, EIGGS club member Gary Geyer poses patiently by a glacial erratic outside of the Hueston Woods Nature Center. Gary found the raptor center to be more interesting than the boulder.
- ■This photo is the example photo of a glacial erratic which was in the IGS GeoNotes update last month.

XTHINK PINK

We are featuring pink stones for Breast Cancer Awareness Month



XTHINK PINK

We are featuring pink stones for Breast Cancer Awareness Month



Agua Nuevo Agate



Strawberry Quartz



Botswana Agate



Stinking Water Plume over Thulite



Turkish Pink Floral Plume Agate



Zebra Print Stone



Rubellite (dark pink tourmaline) in Lepidolite



Royal Imperial Jasper



Raspberry Aventurine



Sonoran Dendritic Jasper





Spinel in Matrix



Pink Sapphire, rough



Rhodochrosite



Rhodochrosite



Rhodonite



Rose Quartz



Ruby in Zoisite



Ruby in Fuschite





lacktriangle IGGS is a member of the Midwest Federation of Mineralogical and • Geological Societies. The MWF is one of seven regional federa-■tions that make up the American Federation of Mineralogical and Geological Societies. You can learn more at amfed.org

Midwest Federation States

Illinois Nebraska (Eastern portion of state) Indiana North Dakota (Eastern portion of state)

lowa 0hio

Michigan South Dakota (Eastern portion of state)

Minnesota Wisconsin

Missouri

Below are the listings of Indiana and Ohio MWF clubs. You can explore many of them online by searching for the club name in Google.

Indiana MWF member clubs (8)

500 Earth Sciences Club of Indianapolis, Indianapolis Calumet Gem & Mineral Society, Hobart Eastern Indiana Gem & Geological Society, Inc., Richmond Evansville Lapidary Society, Evansville Indiana Society of Paleontology, Indianapolis Lawrence County Rock Club, Inc., Bedford Michiana Gem & Mineral Society, South Bend Three Rivers Gem & Mineral Society, Fort Wayne

Ohio MWF member clubs (13)

Akron Mineral Society, Cuyahoga Falls Brukner Gem & Mineral Club, Troy Cincinnati Mineral Society, Sharonville Columbus Rock & Mineral Society, Columbus Dayton Gem & Mineral Society, Inc., Dayton Greater Cincinnati Lapidary & Faceters Society, Cincinnati Micromineral Society of the Cleveland Museum of Natural History, Cleveland Mineralogical Society of Cleveland, Cleveland Heights Parma Lapidary Club, Cleveland Richland Lithic and Lapidary Society, Mansfield Stark County Gem & Mineral Club, Canton Summit Lapidary Club, Cuyahoga Falls Toledo Gem & Rockhound Club, Toledo

AFMS ROCKHOUND CODE OF **E**THICS

s collecting becomes more and more restricted on government A land, the American Federation of Mineralogical and Geological Societies encourages members to contact their legislators and to advocate for collecting rights. Rockhounds should also affirm that they follow the AFMS collecting code of ethics, listed below.

- I will respect both private and public property and will do no collecting on privately owned land without permission from the owner.
- I will keep informed on all laws, regulations or rules governing collecting on public lands and will observe them.
- I will, to the best of my ability, ascertain the boundary lines of property on which I plan to collect.
- I will use no firearms or blasting material in collecting areas.
 - I will cause no willful damage to property of any kind such as fences, signs, buildings, etc.
 - I will leave all gates as found.
 - I will build fires only in designated or safe places and will be certain they are completely extinguished before leaving the area.
 - I will discard no burning material matches, cigarettes, etc.
 - I will fill all excavation holes which may be dangerous to livestock.
- I will not contaminate wells, creeks, or other water supplies.
- I will cause no willful damage to collecting material and will take home only what I can reasonably use.
- I will practice conservation and undertake to utilize fully and well the materials I have collected and will recycle my surplus for the pleasure and benefit of others.
- I will support the rockhound project H.E.L.P. (Help Eliminate Litter Please) and will leave all collecting areas devoid of litter, regardless of how found.
- I will cooperate with field-trip leaders and those in designated authority in all collecting areas.
- I will report to my club or federation officers, Bureau of Land Management or other authorities, any deposit of petrified wood or other materials on public lands which should be protected for the enjoyment of future generations for public educational and scientific purposes.
- I will appreciate and protect our heritage of natural resources.
- I will observe the "Golden Rule", will use Good Outdoor Manners and will at all times conduct myself in a manner which will add to the stature and Public Image of Rockhounds everywhere.



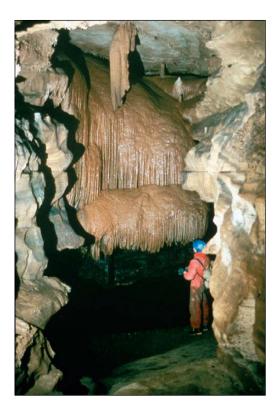


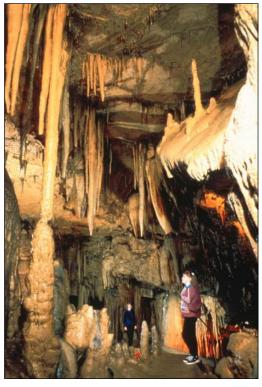
Marengo Cave: One of Indiana's Most Beautiful Caves

Marengo Cave is a commercial cave located in northeastern Crawford County. The cave was discovered in 1883 by two children playing in a sinkhole. Their discovery was reported to the land owner who enlarged the entrance, built a stairway, and opened the cave to visitors soon afterward. The Crystal Palace Entrance near the gift shop was excavated in 1910 and the Dripstone Trail Entrance was opened in 1979. This part of the cave was designated a National Natural Landmark by the National Park Service in 1984.

The original discovery consisted of approximately 3,900 feet of passages, with later exploration in 1992 extending the total length to 15,480 feet. Subsequent discovery connected the Old Town Spring Cavern for an additional 4,552 feet, bringing the total to 20,392 feet, or about 3.9 miles.

The management offers two tours at the present time, an easy 40-minute tour into the Crystal Palace, which features a large variety of dripstone, flowstone, and rimstone deposits nearly 1,000 feet long, and the Dripstone Trail, which covers about a mile in 70 minutes. Wild cave or "off trail" tours are available for explorers willing to crawl and get wet or muddy.







Oct. 21-23—MASON, MI: Annual show; Central Michigan Lapidary and Mineral Society, Ingham County Fairgrounds; 700 E. Ash St.; Fri. 6-9 p.m., Sat. 10 a.m.-6 p.m., Sun. 11 a.m.-5 p.m.; Adults \$3, Students \$1, Children under 12 free. Displays, demonstrators, raffle, children's table, silent auction, hourly door prizes and other activities. Contact Sally Hoskin, 10990 Phal Rd, Grass Lake, MI 49240; 517-522-3396; e-mail: saltoosal2@yahoo.com; www.michrocks.org

Oct. 22-23—HONOLULU, HI: Rock & Mineral Society of Hawaii annual show; Outrigger Waikiki Beach Resort; Leahi Room, Upper Lobby, 2335 Kalakaua Ave; Sat. & Sun 10 a.m.-5 p.m; Free admission; Educational displays of minerals, fossils and fluorescent minerals, as well as items for sale by our members, such as agate geodes, amethyst, fossils, faceted gemstones, fine jewelry, Herkimer diamonds, jade, meteorites, lapidary minerals, opals, ruby, quartz crystals, sapphire, topaz, tourmaline and more. Beads & mineral jewelry available. Contact Markus Faigle, PO Box 23020, Honolulu, HI 96823-3020; email: hui.pohaku@gmail.com; Web site: http://pohakugalore.net/Hui_pohaku/ Mineral-Show-in-Hawaii.asp

Oct. 29-30—EVANSVILLE, IN: Evansville Lapidary Society 50th annual show; Washington Square Mall; 501 Washington Ave.; Sat. 10 a.m.-7 p.m., Sun. 12-5 p.m. Free admission. Vendors with crystals, fossils, minerals, beads, jewelry, geodes, carvings, specimens, cutting rough, faceted stones, posters, books, cabochons, tumbled stones, gems, meteorites, knives, opals, pearls, and slabs. Fluorescent tent display, arrowhead and artifact exhibits, rock grinding demonstrations, door prizes, silent auction, raffle table, junior rockhound booth, and a free tumbled stone for the kids. Contact Sara Rappee, 413 North Park Dr., Evansville, IN 47710; 812-589-3079; e-mail: sararappee@yahoo.com; Web site: http://evansvillelapidarysociety.tumblr.com

Nov. 18-20—LOUISVILLE, KY: 44th Annual Mineral, Gem & Fossil Show sponsored by KYANA Geological Society; Camp Crestwood; 7206 Clore Lane; Fri. & Sat. 10 a.m.-6 p.m., Sun. 12-5 p.m. Free admission. Beautiful custom jewelry, jewelry supplies, beads, gemstones, Australian opals, crystals, minerals and fossils. Door prizes; children's activities. Contact Rick Hunter, P.O. Box 32561, Louisville, KY 40232; 502-298-8871; e-mail: kyanageoshowchair@ gmail.com; Web site: www.kyanageo.org

Dec. 10-11—FRANKLIN, TN: Mid-Tennessee Gem & Mineral Society (MTGMS) annual show; Williamson County AgExpoPark (Nashville area); 4215 Long Lane; Sat. 9 a.m.-6 p.m., Sun. 10 a.m.-5 p.m. Adults \$4, Students \$1, Children free. This show features items that will please every age group: from crystals, geodes, and sharks teeth for the kids to artisan & native American jewelry, to mineral and fossil wonders that the discriminating will love. Hourly door prizes, silent auction, exhibits and demonstrations such as silversmithing, stone cutting and faceting. Contact Mardy Smith, TN 37214; 615-417-1416; e-mail: show@mtgms.org; Web site: http://www.mtgms.org/

Feb. 10-12—QUARTZSITE, AZ: Annual show; Quartzsite Gold Show, QIA; 235 N Ironwood; Fri. & Sat. 9 a.m.-4 p.m., Sun. 9 a.m.-3 p.m. Admission \$5, Chidlren free. Sales and demonstrations of gold prospecting equipment, nuggets, jewelry, coins and more. There will also be speakers, demonstrations, questions and answers for metal detectors and other prospecting equipment. Door prizes include gold nuggets and a metal detector. Contact Richard Trusty, PO Box 4051, Quartzsite, AZ 85359; 928-927-5479; e-mail: QuartzsiteAZGold-Show@gmail.com; Web site: quartzsiteazgoldshow.com



Feb. 17-19—INDIANAPOLIS, IN: GeoFest, the 15th Annual Indiana State Museum Fossil, Gem and Mineral Show; Indiana State Museum; 650 West Washington Street; Daily 10 a.m.-5 p.m.; Adults \$13, Seniors \$12, Children \$8.50. 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; Web site: www.indianamuseum.org

March 17-19—JACKSON, MI: Michigan Gem & Mineral Society annual show. This year's theme: "We Will Rock You." 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; Web site: http://mgmsrockclub.com/annual-show.html

March 31- April 2—INDIANAPOLIS, IN: Treasures of the Earth Gem & Jewelry Show; Indiana State Fairgrounds - Agriculture/Horticulture Building; 1202 East 38th Street; Fri. & Sat. 10 a.m.-6 p.m., Sun. 11 a.m.-5 p.m. Adults \$5 (good all 3 days), Children free under age 16. Jewelry makers, goldsmiths and 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 and fossil dealers. Hourly door prizes including a grand prize ring with a precious stone. Contact Van Wimmer - Show Director, 5273 Bradshaw Road, Salem, VA 24153: 540-384-6047; e-mail: vawimmer@verizon. net; Web site: www.toteshows.com

April 8-9—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, 628 Sanbridge Circle E, Columbus, OH 43085; 614-436-4511; e-mail: craig.kramer@ wowway.com; Web site: http://www.columbusrockandmineralsociety.org/

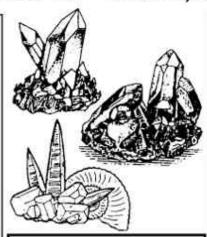
Central Michigan's 51st Annual Gem, Mineral, Fossil Lapidary & Jewelry Show

Friday, October 21, 2016 • 6:00 p.m. to 9:00 p.m. Saturday, October 22, 2016 • 10:00 a.m. to 6:00 p.m. Sunday, October 23, 2016 • 11:00 a.m. to 5:00 p.m.

"Main Arena" Ingham County Fairgrounds 700 E. Ash St. • Mason, MI

DEALERS

- · Archy's Rock Shop
- BJ'S
- The Jewelry Shoppe
- Jacqueline
- M & W Minerals
- · Earth Air Rock & Gem Shop
- · Red Metal Mineral Co.
- Russell's Trees & Treasures
- The Mineral House
- The Agate Lady
- Peacock Rocks
- · Beauties of Creation



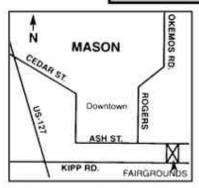
NEW FEATURE
"ASK US"
Specimen ID - Limit 3

ACTIVITIES

- Club & Guest Displays
- Silent Auctions
- Hourly Door Prizes
- · Fluorescent Booth
- Working Demonstrations
- Supervised Swap Table
- "Children's" Table
- Raffle
- Petoskey Stone Polishing
- "Touch & Feel" Table
- Refreshments
- Free Parking
- · Much More

ADMISSION: Adults \$3.00 • Teens \$1.00 Children Under 12 - FREE with Paying Adult

Part of proceeds fund scholarship at MSU



Directions to Show:

FROM I-96 South on Okemos Rd. To Mason, Left on Rogers St. Left on Ash St.

FAIRGROUNDS

FROM LANSING South on Cedar St.
To Mason, Left at 2nd Stoplight (Ash St.)
US-127 South to Kipp Rd. Exit,
Left (East) to South
Entrance to Fairgrounds



Sponsored by: CENTRAL MICHIGAN LAPIDARY AND MINERAL SOCIETY

Information: (517) 641-6125 • facetman60@yahoo.com michrocks.org



Evansville Lapidary Society's * * * **50**TH **A**NNUAL * * GEM, MINERAL, & FOSSIL SHOW

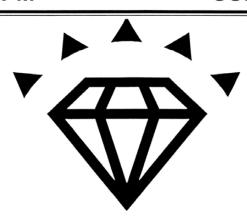
October 29 & 30, 2016

Washington Square Mall Green River Road & Washington Avenue Evansville, IN

SAT. - 10AM to 7PM

SUN. - NOON to 5PM

BEADS GEODES JEWELRY CARVINGS METEORITES CUTTING ROUGH FACETED STONES



SLABS FOSSILS MINERALS CRYSTALS SPECIMENS CABOCHONS TUMBLED STONES

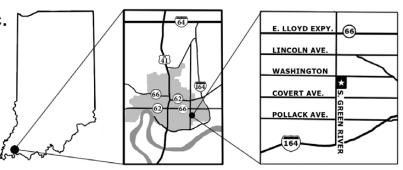
JUNIOR ROCKHOUND BOOTH, FREE TUMBLED STONE FOR KIDS, DOOR PRIZES, AUCTIONS, WORKING DEMONSTRATIONS, PRIVATE COLLECTOR'S EXHIBITS, AND A 285 POUND GEODE

NEW - FLOURESCENT MINERAL DISPLAY

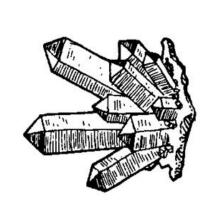
FREE PARKING--NO ADMISSION CHARGE--INDOOR MALL--JOIN US ON FACEBOOK

Evansville Lapidary Society, Inc. 1304 N. Willow Road Evansville, IN 47711 812-425-GEMS

For information contact Sara Rappee- Show Chair 812-589-3079



KYANA Geological Society ANNUAL MINERAL, GEM & FOSSIL SHOW NOVEMBER 18-20, 2016 Society Seological Victoria



Saturday Nov. 19th 10 AM-6 PM Friday Nov. 18th 10 AM-6 PM Sunday Nov. 20th Noon-5 PM

Crestwood KY 40014 Camp Crestwood 7206 Clore Ln.



Fossils, Handmade Jewelry, Gemstones, Genuine Australian Opals, Crystals, Minerals FREE Admission FREE Parking Children's Activities Door Prizes

Dealers for more information about the KYANA show, visit our web site www.kyanageo.org or contact:

P.O. Box 32561 (502) 298-8871

Richard Hunter

Louisville, KY 40232-2561

kyanageoshowchair@gmail.com