



Eastern Indiana Gem & Geological Society

ROCK PICKINGS

January 2017

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

2 Next meeting: Thursday, Feb. 2, 6:30 p.m.

PRESIDENT'S MESSAGE



Hello, Rock Hounds:

Important Notice: The floor repair work in the clubhouse started on Tuesday, January 17. The work will take approximately three weeks. The schedule for the repair work is designed to minimize disruptions to our Tuesday shop nights and our Thursday monthly meetings. In the event of a disruption, we will have access to the shop through a new exterior door in the saw room. The saw room door will be one of the first projects completed.

Membership Dues: PLEASE submit your dues to Dave Straw ASAP. In the past some members have lingered well into the year before settling their dues. We would like to curtail this habit.

\$15 for single member and \$20 for a family membership.

We are entering crunch time before the our annual rock & gem show. Everybody needs to volunteer for at least one 4-hour shift at the show. There are many different roles to be filled at the show. I'm confident you can find something that interests you. A sign up list is posted in the workroom at the club and is also on page 5 of this newsletter. Please contact Judy Burton (jleeburton@woh.rr.com) to sign up. **PLEASE DO NOT WAIT UNTIL THE LAST WEEK BEFORE THE SHOW.**

We will have a sign-up sheet at the February meeting for the pitch-in vendor dinner. Raffle tickets will also be available at the meeting.

Mark

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Construction begins



Floor construction work has begun

PAGE 3

Raffle tickets available



Check page 3 for the two raffle prizes

PAGE 5

Gem & mineral show



Contact Judy Burton to volunteer

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Member offers cookies



Meet our newest members, page 7

MEETING MINUTES: JANUARY 5, 2017

MARY ANN MORSE, SECRETARY

Members present

John LaMont, Mary Ann Morse, John Morse, Erna Jacob, Danny Spurgeon, Dave Straw, Mark Lisota, Angela Shaffer, Hailee Shafer, Marty Lucas, Jim Lucas, Scott Gibson.

New Business

Meeting was called to order by Mark Lisota, President, who welcomed the group back after the holidays. Mark shared information from the Midwest Federation newsletter concerning the Rockhound of the Year nominations. We should look at the criteria and see if we have people who might qualify.

Show Update

- Flyers were distributed for members to post in public places in their communities a few weeks ahead of the show.
- The same caterer as last year has been confirmed.
- Earlham has been contacted – no response yet.
- GadAbout ad has been published.
- Newspapers and radio have been contacted.
- Nicole has been contacted about security.
- Mark will contact Patrick to be sure kids activities are ready.
- Postcard reminders – 702 will be sent.
- February meeting will have advanced sale raffle tickets & sign-up sheet for vendor dinner.
- Grab bag price needs to go up to cover cost of materials. Price will raise to \$1.50.
- Volunteers are lined up for pulling wagons to the Kuhlman Center and table set-up on Wednesday.
- Dealers have all paid.

New members

New members, Angie & Hailee Shaffer were introduced. (see page 7)

Treasurer's report – Dave Straw.

Income for the month was \$416, including dues, \$110 in donations, shop fees, and soda. \$1,021 was spent. This included the \$435 deposit to the Kuhlman Center and other show expenses.

Construction/renovation

Scott Gibson reported on the estimate for repair work. The quote is \$5,100 for:

- replacing floors in the entry way (up to the stairs) and the meeting room. This includes concrete work, new floor joists and electrical boxes



■ Construction work began Tuesday, January 17, with flooring removal in the meeting room.

- new exterior doors on the front and entry to saw room (to allow access while meeting room floor is out)
- re-set basement steps

The work should take 2-3 weeks to complete. Some concern was raised about scheduling repairs during time we need access to the building for show preparation.

It was agreed that \$5,100 was very reasonable, and that work should begin as soon as possible.

Training Tuesdays

Dave voiced concern about the lack of people to do instruction and have shop open on Tuesdays. Various members indicated availability to do this.

Meeting was adjourned, and members spent a short time assembling grab bags.



RAFFLE PRIZES

Tickets on sale now;
volunteers needed to sell tickets

Be sure to buy your rock & gem show raffle tickets in order to win this year's grand prize: an 8.5 pound periwinkle blue piece of celestite. Full of crystals, this 5x7 inch piece sparkles in the light.

The mineral, which is also called celestine, is named for its "celestial" blue color. It is also sometimes called Angel Stone, and it is the principal source of the element strontium, commonly used in fireworks

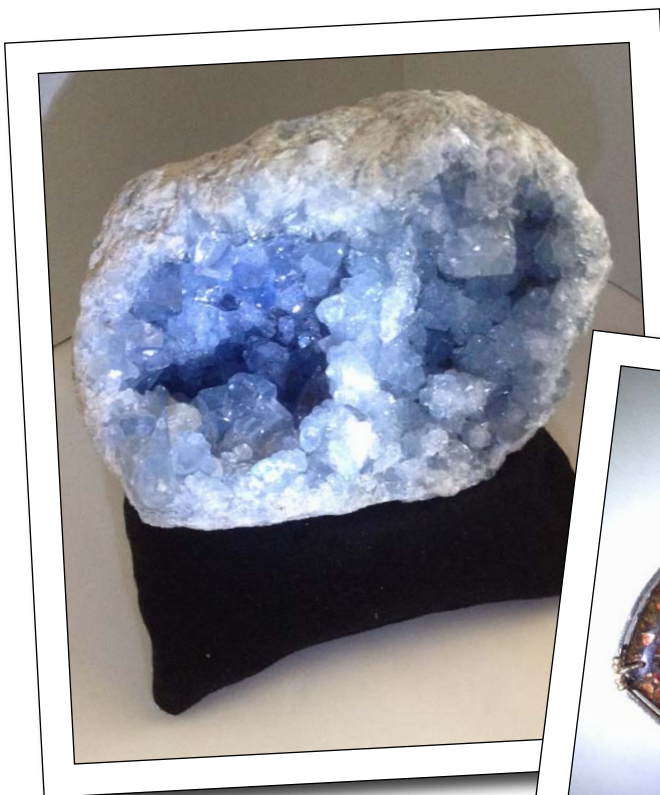
The second prize is just as lovely. It is an ammolite pendant wrapped in gold-filled wire by Judy Burton. Ammolite is a rare gem made of a thin iridescent aragonite shell material that is found on two species of extinct ammonite fossils.

You may buy raffle tickets in advance from Judy Burton at the February club meeting or you may buy them at the show, March 3, 4 and 5.

Tickets are \$1 each or six for \$5.

We also need volunteers to sell tickets prior to the show. Judy will have ticket packets ready for you at the February meeting. If you can't be there, please contact Judy by phone (937) 339-1966 or e-mail jleeburton@woh.rr.com

Raffle proceeds benefit the club and help the club provide scholarships for Wayne County high school seniors and Earlham College geology students.



Celestine Trivia:

The world's largest known geode, a celestine geode 35 feet (10.7 m) in diameter at its widest point, is located near the village of Put-in-Bay, Ohio, on South Bass Island in Lake Erie. The geode has been converted into a viewing cave, Crystal Cave, with the crystals which once composed the floor of the geode removed. The geode has celestine crystals as wide as 18 inches (46 cm) across, estimated to weigh up to 300 pounds (135 kg) each.



Volunteers Needed

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

You could donate to the silent auction, help with the kids activities, demonstrate a skill, sell admission tickets, or help with hospitality or set-up. There are many options! Check out the sign-up sheet on page 5 and let Judy know what you would like to do. Please come to the February meeting for an update on the show and ways to help.

Auction Donations Requested

The Silent Auction is a primary fund-raiser for the club.

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

• to donate contact Marty or Jim Lucas at
317-607-2102 or e-mail m.j.88994168@gmail.com



VOLUNTEER OPPORTUNITIES HERE'S YOUR CHANCE TO HELP OUT EIGGS!

✂ TAKE PART IN THE SILENT AUCTION CRAFTS NIGHTS

Tuesday, January 31 -- 5-8 p.m.
Tuesday, February 21 -- 5-8 p.m.

(If you can't be there at 5 o'clock, come when you can.)

To prepare items for the March rock show silent auction, Marty and Jim Lucas are hosting two craft nights at the clubhouse. The first one is Tuesday, January 31 and the second will be Tuesday, February 21. Both will be from 5-8 p.m.

This is a great chance to be creative, hang out with your friends (or make new friends!), as well as contribute to the success of the silent auction, which is a primary fund-raiser for the club.

At the craft nights, members will create gem trees, bracelets, necklaces, pendants, do-it-yourself jewelry kits, cabs, slabs and more. If you are good at beading and wire-wrapping, GREAT! If you aren't, that is fine, too, since Marty says there will be jobs for people of any skill level, including some sorting and labeling.

If you have any ideas for other easy-to-assemble pieces for the auction, please let Marty know. E-mail her at m.j.88994168@gmail.com

If you have wire-wrapping tools, (snips, pliers, etc.), bring them.



■ Jim and Marty Lucas coordinate the silent auction for the annual gem & mineral show.

Markers would also be useful.

Snacks will be provided for the two craft nights. If the weather is bad, please check the EIGGS Facebook site to see if the event has been canceled, especially if you are driving in from an outlying area.

☒ 'EXHIBITIONISTS' NEEDED TO DESIGN SHOWCASES

Feeling artistic? Now that the show display cases have been repaired, painted and updated, they are a great place to show off the educational aspects of the club, as well as club members' interests, hobbies, talents and collections.

If you are interested in putting together a display case, please let Judy Burton know, by phone (937) 339-1966 or e-mail jleeburton@woh.rr.com



■ Scott and Emily Gibson used their showcase to highlight a wide variety of petrified wood.



■ Xavier Jones displayed his 4-H geology projects at last year's show.



■ Harris Precht displayed a variety of Midwest minerals in his display case in 2016.

RICHMOND GEM & MINERAL SHOW SIGN-UPS

With the EIGGS gem and mineral show just over five weeks away, it's time to think about what you can do to help. Volunteers ensure that our show is a success. At the February 2 meeting, show chairperson Judy Burton will have raffle tickets for you to sell. She

will also have flyers that you can distribute. Also, start thinking about helping with the carry-in on Thursday.

To sign up or get more information, please contact Judy by phone (937) 339-1966 or e-mail jleeburton@woh.rr.com

Friday March 3

Admissions

10 a.m.-2 p.m. **Deb Chagares**

10 a.m.-2 p.m. _____

2-6 p.m. _____

2-6 p.m. _____

Raffle

10 a.m.-2 p.m. _____

2-6 p.m. _____

Mailing List (Excel spreadsheet)

10 a.m.-2 p.m. _____

2-6 p.m. **Lisa Morris**

Hospitality

10 a.m.-2 p.m. **Naomi Jones**

10 a.m.-2 p.m. **Jan Roestamadji**

2-6 p.m. _____

2-6 p.m. _____

Mining

10 a.m.-2 p.m. _____

10 a.m.-2 p.m. _____

2-6 p.m. _____

2-6 p.m. _____

Children's Area - Patrick Pierce (10-2: Lisa Morris)

10 a.m.-2 p.m. **Joy Ingerman**

10 a.m.-2 p.m. **Dave Lundquist**

10 a.m.-2 p.m. _____

2-6 p.m. _____

2-6 p.m. _____

Lapidary

10 a.m.-2 p.m. _____

10 a.m.-2 p.m. _____

2-6 p.m. **Deb Chagares**

2-6 p.m. _____

Wheel of Fortune

10 a.m.-2 p.m. _____

10 a.m.-2 p.m. _____

2-6 p.m. _____

2-6 p.m. _____

Silent Auction Set-up

10 a.m.-6 p.m. **Jim Lucas**

Mikala, Israel, Briana,
Dakota & Faithe Jones
-- floaters/kids area/
wheel/ wherever!

Saturday March 4

Admissions

10 a.m.-2 p.m. _____

10 a.m.-2 p.m. _____

2-6 p.m. _____

2-6 p.m. _____

Raffle

10 a.m.-2 p.m. _____

2 p.m.-6 p.m. _____

Mailing List (Excel spreadsheet)

10-2 p.m. **Lisa Morris**

2-6 p.m. **Lisa Morris**

Hospitality

10 a.m.-2 p.m. **Deb Chagares**

10 a.m.-2 p.m. _____

2-6 p.m. **Bill Wilson**

2-6 p.m. _____

Mining

10 a.m.-2 p.m. _____

10 a.m.-2 p.m. _____

2-6 p.m. _____

2-6 p.m. _____

Children's Area - Patrick Pierce

10 a.m.-2 p.m. **Juliana & William Barnes**

10 a.m.-2 p.m. **Joy Ingerman**

2-6 p.m. **Libby Adams**

2-6 p.m. _____

Lapidary

10 a.m.-2 p.m. _____

10 a.m.-2 p.m. _____

2-6 p.m. **Deb Chagares**

2-6 p.m. _____

Silent Auction/Wheel of Fortune

Jim Lucas, Marty Lucas

10 a.m.-2 p.m. **Naomi Jones**

10 a.m.-2 p.m. _____

2-6 p.m. _____

2-6 p.m. _____

Mikala, Israel, Briana, Dakota & Faithe Jones
-- floaters/kids area/wheel/ wherever!

Sunday March 5

Admissions

11 a.m.-4 p.m. **Nancy Renfro**

11 a.m.-4 p.m. **Sandy Weadick**

Raffle

11 a.m.-4 p.m. _____

Mailing List (Excel spreadsheet)

11-4 p.m. **Lisa Morris**

Hospitality

11 a.m.-4 p.m. **Deb Chagares (maybe lapidary later?)**

11 a.m.-4 p.m. **Judith Echano Medina**

Mining

11 a.m.-4 p.m. _____

11 a.m.-4 p.m. _____

Children's Area - Patrick Pierce

11 a.m.-4 p.m. **Libby Adams**

11 a.m.-4 p.m. _____

Lapidary

11 a.m.-4 p.m. _____

11 a.m.-4 p.m. _____

Silent Auction/Wheel of Fortune

Jim Lucas, Marty Lucas

11 a.m.-4 p.m. **Naomi Jones**

11 a.m.-4 p.m. **Angie & Hailee Shaffer**

Mikala, Israel, Briana, Dakota & Faithe Jones
-- floaters/kids area/wheel/ wherever!





In addition to being a rock-hound and fossil-hunter, new member Hailee Shaffer is also a Girl Scout. (You can read more about her and her mom on page 7.)

The Girl Scouts are in the midst of the cookie season, selling the traditional favorites (and a couple new flavors!) in order to fund their trips and projects. Most varieties are \$4 a box and the new S'mores and Toffee-tastic cookies are \$5 a box.

If you haven't bought your cookies yet this year, Hailee will have cookies available for purchase at the February 2 club meeting.

If you want to buy cookies, the Shaffers can accept cash or checks made payable to Girl Scouts of Central Indiana.

Pop Rocks

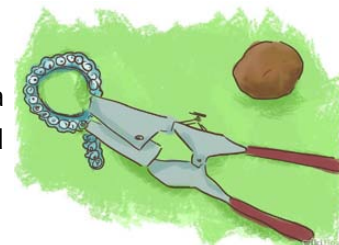
Volunteers needed to break geodes for Silent Auction

While there are many ways to open geodes, one of the easiest is using an iron pipe snap cutter as vendor Mike Manning does each year at the rock show.

Last year Patrick Pierce found a pipe snap cutter at a yard sale and added it to the club's inventory of tools.

If anyone would like to volunteer to crack a few geodes so they can be put into the silent auction, please contact Jim Lucas.

The edges of some of the geodes could be polished on the flat lap. Dave Straw could show someone how to do this.



RENEW YOUR ANNUAL EIGGS MEMBERSHIP TODAY!

Just another reminder that it is time to renew your EIGGS membership. Memberships are for one calendar year, January through December.

If you are one of the 33 members who haven't renewed yet, it is time!

To renew, please print this form and mail it with your payment to the address below or bring it to the February 2 meeting.

Thank you!

Eastern Indiana Gem & Geological Society

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 February 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



WELCOME, NEW MEMBERS!

A warm welcome goes out to Angie and Hailee Shaffer, Eastern Indiana Gem and Geological Society's newest members

Hailee Shaffer

Occupation: fourth grade at Centerville

Location: Centerville

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

rocks because they are pretty, and because sometimes you can make jewelry out of them.

What do you hope to learn? I want to learn how to actually make the stones into jewelry.

What areas interest you most?

Making things out of the stones I have.

What have you learned so far? I've learned how to grind and polish the stones. I thought the grinder would jerk the stone out of my hand, but it didn't, but the saw is terrifying, so my mom will do that for me.

What are a few of your other hobbies or interests? I'm in Girl Scouts. I like animals, nature and hiking. I like going in caves, and I love swimming. I also love fossils. Trilobites are my favorite. I have one that my grandpa gave me.

Anything else you want to share?

I'm an only child, and I have a rabbit, a parakeet and four dogs.



Angie Shaffer

Occupation: I have worked at my job for 20 years but don't hold an "official" title. I do all aspects of office work along with being a CAD Operator --That is Computer-Aided Drafting.

Location: Centerville

How did your interest in rocks, gems or minerals develop? I've always had an interest in rocks for as long as I can remember. It kind of runs in the family.

My dad was always involved in rocks, I've always been involved in rocks, and now my daughter is. I love looking at each individual rock to see the patterns in them and marvel that no two stones are ever the same.

What do you hope to learn? I want to learn the different types of stones and where they come from.

What areas interest you most? I am most interested in exploring and looking for beautiful stones.

What have you learned so far? I've learned about grinding and polishing and that there is a "gold mine" in the garage.

What are a few of your other hobbies or interests? Animal welfare and animal rescue. We've been involved at the HELP Shelter and are involved in the Pet Walk every year. All of our dogs are rescues and are loved like family. We all like being outside, going caving and looking for more rocks for my husband to haul home. I LOVE fishing. If the fish aren't biting, I'm looking for rocks.



UPCOMING WORKSHOP

What: Two-Color Viking Knit Workshop

Who: People who have taken previous Viking knit classes, but beginners welcome, too!

When: Tuesday, February 7 at 6 p.m.

Instructor: Danny Spurgeon

Cost: \$10 fee, payable that night

Supplies: For two-color workshop, you need to bring your own 26 gauge wire – at least 30 feet of each color and wire-working tools. (You can get this at Hobby Lobby, at ParaWire.com, or perhaps from Danny, if you call him.)

Questions? Call Danny at 727-389-2900



■ At the Viking weaving workshop in September, Danny Spurgeon explains the process to Malessia Bowling.



■ At one of last year's 4-H Super Saturday, Mary Ann Morse and Patrick Pierce share their knowledge of the earth sciences with students and their parents. They discussed topics including fossils, minerals, Indiana specimens, the rock cycle and the lapidary process.



VOLUNTEER AT 4-H SUPER SATURDAY

Interested club members are invited to promote 4-H geology

4-H provides great opportunities for students in grades 3-12 to study geology, and those who have been involved in the program love it. Club member Xavier Jones said it gave him a chance to share his love of rocks, gems and minerals and earn a variety of awards and ribbons, too.

However, despite there being a wide variety of projects for students of all ages, over the years,

the number of geology entries at the fair has been declining, according to Wayne County Purdue Extension secretary Debbie Cates.

Last year ELGGS members promoted geology at two 4-H Super Saturdays where they explained the various project options and shared their love of the earth sciences with 4-H members and their parents. There will be two Super Saturdays this year: Feb. 18 and March 18.



→→→ The next Super Saturday event is February 18 from 9 a.m. til noon at the Tom Raper Center at the Wayne County Fair-

grounds. If you are interested in participating, please contact Lisa Morris at ELGGSnews@gmail.com

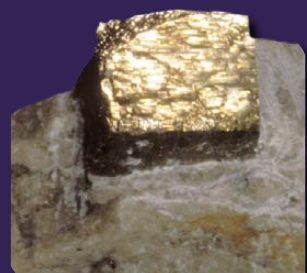
To learn more about the geology project categories, please go to <http://tinyurl.com/j3kdnm9>

Pyrite – “Fool’s Gold”

Pyrite is a mineral that is sometimes mistaken for gold, hence the nickname “fool’s gold.” By comparing the physical properties, one can easily distinguish between the two minerals. Pyrite is less dense, harder, and more brittle than gold. In addition, pyrite will tarnish when exposed to acid, whereas gold is nonreactive. Pyrite is shiny, metallic, and brass colored. Its cubic crystals are highly sought after by mineral collectors. Composed of iron and sulfur (FeS_2), pyrite may be the most common sulfide mineral in Indiana.

Pyrite is common in a variety of geological settings and is associated with quartz, barite, sphalerite, as well as other minerals. In Indiana, pyrite can be found in organic-rich shale, coal, and limestone. Potential commercial uses of pyrite include iron or sulfur ore, jewelry components, and in the production of sulfuric acid.

The chemical weathering of pyrite can have undesirable effects in coal mines. Pyrite that is exposed to oxygen and water leads to acid mine drainage. This creates a variety of negative environmental conditions, including decreased water quality and soil fertility. Brownish stains on building stones may be the result of oxidized pyrite.



cubic pyrite crystal



pyrite “ball”

GeoCard courtesy of the Indiana Geological Survey



DINOSAUR FEATHERS

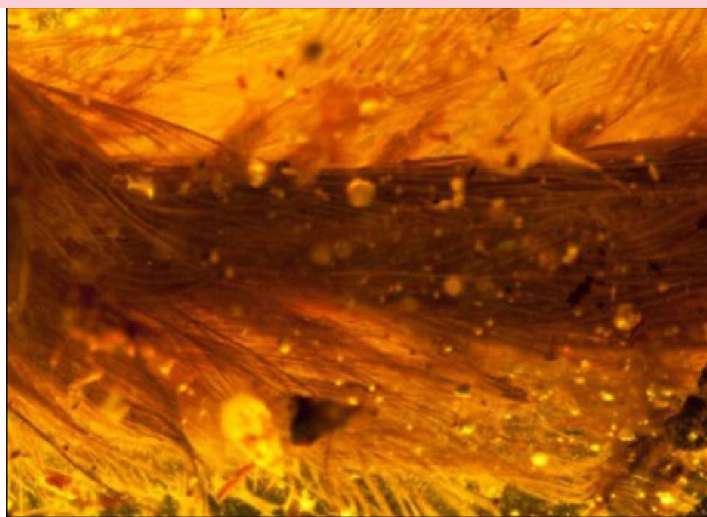
by Katherine Sorrows, Earlham College senior

Original materials of carbonized soft tissues may be preserved in this beautiful piece [of amber] which was originally intended for use as jewelry. This is suggested because of the iron that was found in the material. There are chemical traces that can be studied, as well as structures of ligaments, muscles, and skin that can be reconstructed using X-ray, to find what the structures are under the feathers.

These are not the first feathers to be found in amber, but these are the first that are connected to a part of the animal that can be positively identified.

Also scientists know it is a dinosaur and not a bird because the vertebrae are not fused. These feathers have the two finest tiers of branching, but not the central shaft which indicates that these two tiers evolved before the central shaft found in feathers evolved.

Amber preserves structures and tissues that are not well preserved and difficult to study in other settings which is why this discovery is so exciting.



A Feathered Dinosaur Tail with Primitive Plumage Trapped in Mid-Cretaceous Amber, Current Biology (2016), <http://dx.doi.org/10.1016/j.cub.2016.10.008>

Katherine Sorrows is an Earlham senior from Carlisle, MA, majoring in geology and minoring in museum studies. After graduating, Katherine plans to pursue a career in education, or museums.

Sources: "Amber Specimen Offers Rare Glimpse of Feathered Dinosaur Tail | Geology Page." *Geology Page*. N.p., 08 Dec. 2016. Web. 16 Dec. 2016.

Xing et al., *A Feathered Dinosaur Tail with Primitive Plumage Trapped in Mid-Cretaceous Amber*, *Current Biology* (2016), <http://dx.doi.org/10.1016/j.cub.2016.10.008>

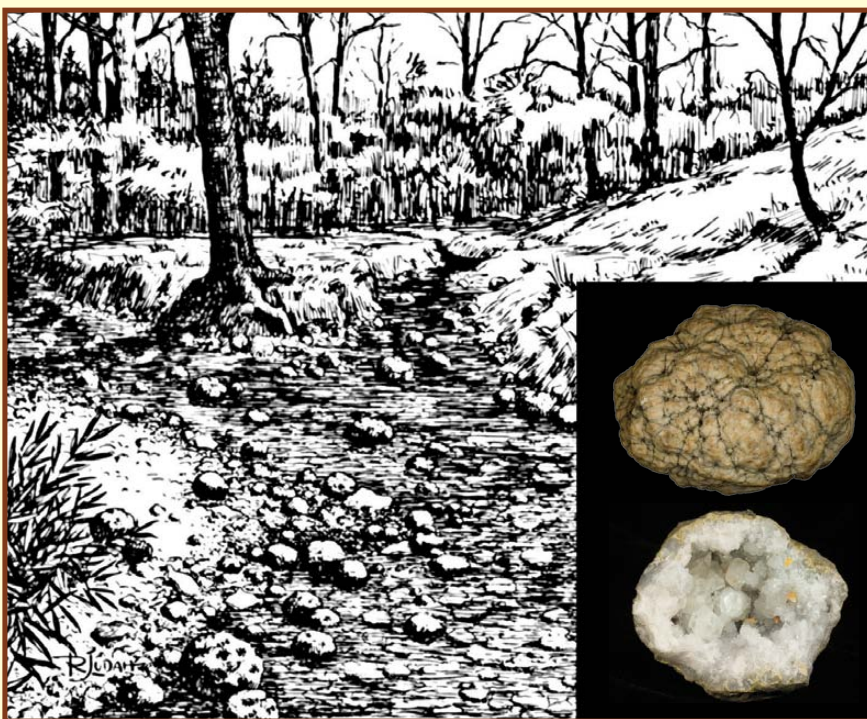
GEODES: One of Nature's Mysteries

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

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

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

GeoCard courtesy of the Indiana Geological Survey





GET READY FOR GEOFEST

15th Annual Indiana State Museum Fossil, Gem & Mineral Show

When: February 17, 18, 19, 2017

Where: Indiana State Museum, Indianapolis

Times: Friday & Saturday: 10 a.m. - 5 p.m.; Sunday: 11 a.m. - 4 p.m.

Admission: Included with museum admission. Adults \$13; seniors (60+) \$12; children (age 3-17) \$8.50; children under 3, free.

Web site: www.indianamuseum.org/

GeoFest "rocks" the Indiana State Museum as experts and vendors from all over the country come to the museum with fossils, rocks, minerals, jewelry and more!

Shop for your own unique geo-treasure and meet experts from throughout Indiana. Explore the museum's natural history galleries, enjoy hands-on geology activities and win geo-prizes.

UPCOMING SHOWS

Feb. 10-12—QUARTZSITE, AZ: Quartzsite Gold Show, QIA; 235 N Ironwood; Fri. & Sat. 9 a.m.-4 p.m., Sun. 9 a.m.-3 p.m. Admission \$5, Children free. Sales and demonstrations of gold prospecting equipment, nuggets, jewelry, coins; 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: QuartzsiteAZGoldShow@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 3-5—RICHMOND, IN:** Eastern Indiana Gem & Geological Society, Wayne County Fairgrounds; 861 N. Salisbury Rd.; Fri. 10 a.m.-6 p.m., Sat. 10 a.m.-6 p.m., Sun. 11 a.m.-4 p.m.; Adults \$5; Seniors \$3; Children \$1, under 7 free; Jewelry, Fossils, Minerals; Silent Auction, Displays, Demonstrators, Children's Activities. Food Available. Over 29 Dealers & Demonstrators. Scouts in uniform -free! Contact Judy Burton (937) 339-1966; e-mail: jleeburton@woh.rr.com

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>



Royal Imperial Jasper

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 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/>