



Eastern Indiana Gem & Geological Society

ROCK PICKINGS

July 2016

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

EIGGS Board Members

President

Mark Lisota
317-525-1418
mlisota@hotmail.com

Vice President

Mary Ann Morse
765-914-2672
jfmamorse@gmail.com

Secretary

Patrick Pierce
937-838-1644
patrickwp@gmail.com

Treasurer

Dave Straw
765-966-4249
strawdl@aol.com

Show Chairman

Judy Burton
937-339-1966
jleeburton@woh.rr.com

Vendor Chairman

John LaMont
812-322-7809
midwestchar@gmail.com

Newsletter Editor

Lisa Morris
EIGGSnews@gmail.com

Memberships:

Annual dues
\$15 Individuals
\$20 Families

Please send dues to:

EIGGS
PO Box 1724
Richmond, IN 47375

4 Next meeting: Thursday, August 4, 6:30 p.m.

PRESIDENT'S MESSAGE



Hello, Rockhounds:

We had a great time at the summer picnic. Thanks to everyone who brought a dish. I think placing the food in the shop worked out very well and will be something we continue in the future. Susan Kuhlman had an auction. Patrick made off with

a lot of watch-making tools and others went home with very interesting items.

As we move later into the summer, we will continue to repair many of the doors at the clubhouse and locate the source of the roof leaks. I would like to have all these projects done before it gets cold.

Please use the new sign-up sheet when using the shop.

Mark



■ Baker Eggs from the Baker Load Mine, Hermanas Draw, Luna County, New Mexico --from the collection of Jeffrey Anderson, Dwarves Earth Treasures

AGATE SHOW & TELL

When: at August 4 meeting

Who: Club members

What: In the spirit of the recent international Agate Expo, let's focus on agates this month. Bring a favorite agate to share with others in the club. Feel free to bring agates in any form: they could be whole, cut, slabbed or polished pieces or cabs or set into jewelry.

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!

▶ INSIDE THIS ISSUE

PAGE 10
Indiana Bicentennial



State's defining objects include rocks

PAGE 11
These cakes rock



Geological wedding trend

PAGES 8-9
Ohio Caverns



Cave trips help beat summer heat

PAGES 12-13
Agate Expo 2016



Coyamito Agate from Mexico

MEETING MINUTES: JULY 7, 2016 PATRICK PIERCE, SECRETARY

The July meeting was the annual pitch-in picnic. We had a strong turn-out with 31 in attendance. Thanks to Susan Kuhlman for hosting an auction as the evening's entertainment. A portion of the proceeds were donated to the club. Thanks to everyone who participated, including our visitors from the Troy Club, Peggy & John Hickman. It was nice to spend time with fellow rockhounds!

Members & guests present

Judy Burton, Deb Chagares, Jim Chagares, Christopher Gaston, Serenity Gaston, Gary Geyer, Emily Gibson, Scott Gibson, Alma Glisson, John Hickman, Peggy Hickman, Amy Hughes, Missy Killion, Barbara Kuhlman, Susan Kuhlman, Mark Lisota, Lisa Morris, John Morse, Mary Ann Morse, Emma Pierce, Nathan Pierce, Patrick Pierce, Harris Precht, Mike Regan, Ann Richardson, Matt Rudicil, Deanna Smith, Danny Spurgeon, Dave Straw, Linda Straw, Joe Wirrig.



Mary Ann Morse, Linda Straw & Deb Chagares



Susan Kuhlman, John Morse & Danny Spurgeon



Ann Richardson & Harris Precht



Amy Hughes & Barbara Kuhlman



Joe Wirrig & Gary Geyer



Judy Burton



Scott & Emily Gibson



Dave & Linda Straw



Susan Kuhlman



Deanna Smith & Christopher Gaston



Patrick Pierce



Nathan & Emma Pierce



Mark Lisota



Alma Glisson & Mike Ragen



Danny Spurgeon



Jim & Deb Chagares



John & Peggy Hickman



Missy Killion & Matt Rudicil

EQUIPMENT RECERTIFICATION HELD

In order to keep our equipment operational, it is important that everyone follows the same policies and procedures.

FYI: recertification is mandatory Everyone who wishes to use the equipment was initially certified, but periodic "refresher" sessions are needed to be recertified on the equipment.

Two refresher sessions were presented in June and 38 EIGGS members were recertified on the saws, grinders and other equipment.

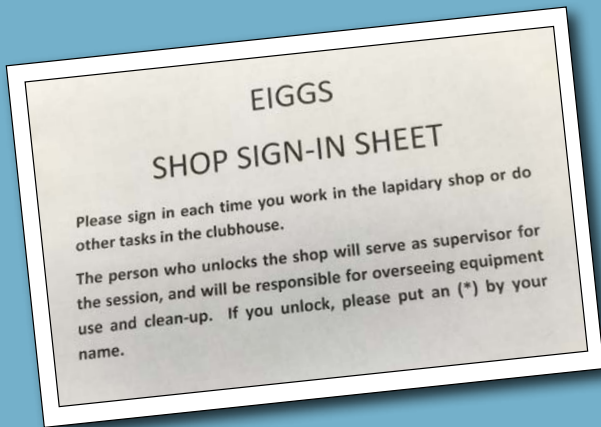
If you were unable to attend the sessions and still want to be recertified, please contact Deb Chagares (deb@chagaresphotography.com) or John Morse (jfmamorse@gmail.com) and they will put you on a re-certification "WAIT LIST."

A new session will be planned for this fall. You will be asked not to use the equipment until you have completed the recertification training.

Recertified members

Libby Adams	Amy Hughes	Matt Rudicil
Julianna Barnes	Joy Ingerman	Kathy Sheehy
William Barnes	Naomi Jones	Deanna Smith
Jean Blue	Xavier Jones	Danny Spurgeon
Steve Blue	Missy Killion	Dave Straw
Judy Burton	Mark Lisota	Linda Straw
Deb Chagares	Jim Lucas	Jamie Terhaar
Judith Echano Medina	Marty Lucas	John Terhaar
Kathy Friend	Lisa Morris	Johnathon Terhaar
Emily Gibson	John Morse	Ed Tucker
Scott Gibson	Mary Ann Morse	Sandy Weadick
Alma Glisson	Mike Ragen	Jacob Wiford
	Nancy Renfro	Joe Wirrig

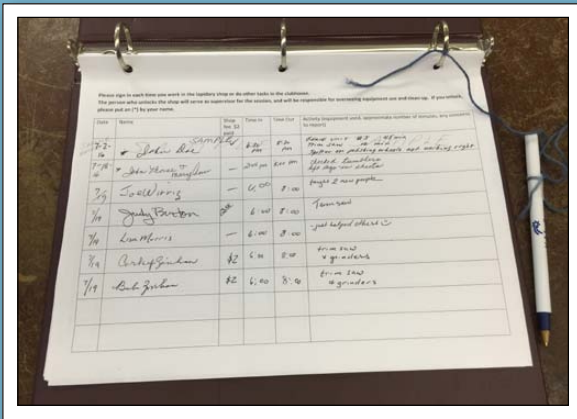
NEW CLUB SIGN-IN PROCEDURES IMPLEMENTED IN JULY



To keep better track of equipment and clubhouse usage, club members are asked to sign in (and out) each time they are at the clubhouse to do lapidary work or other tasks.

In the sign-in binder, please put the date, your name, time in and time out and briefly list equipment used or chore completed.

On Tuesdays, Thursdays and Sundays, the person who unlocks the shop will serve as supervisor for the session and will be responsible for overseeing equipment use and clean-up. If you unlock the building, please put an asterisk (*) beside your name in the binder.



Other news

1. Have you provided treats for one of the monthly meetings? If not, please consider adding your name to the sign-up sheet on the bulletin board.
2. There are still some slots available for mowing. If you can help out, contact Dave Straw and he will tell you everything you need to know. Strawdl@aol.com or 765-966-4249.
3. The dropped ceiling in the shop is in need of repair. If you have experience working with dropped ceilings, please contact President Mark Lisota. mlisota@hotmail.com or 317-525-1418.

🌸 CLUB MEMBERS SELL AT SATURDAY RICHMOND FARMERS MARKET

If you haven't checked out Richmond's new and improved Saturday morning farmers market this season, it is worth the trip.

There are many more vendors now than in the past, and all of the produce, eggs, meat, baked goods, preserves, jewelry and crafts are locally produced.

Until the new Elstro Park is completed, the farmers market will be held Saturday mornings in the parking lot at 10th and Main Street, right across from Richmond Civic Theater.

While you are there, be sure to stop by and see the jewelry items created by club members Jamie Terhaar and Naomi Jones. They aren't there every week, but if they are, they will be happy to see you!

Both women sell a variety of pendants, rings and bracelets. Naomi specializes in wire-weaving, using her designs to highlight natural stones and "Bowler-ite." Jamie offers both wire-wrapped and silver bezel set pieces in a variety of stones, including larimar, turquoise and ammolite.



■ The Richmond farmers market is held 8 a.m. till noon each Saturday at the corner of 10th and Main Street. A wide variety of vendors offer produce, meat, baked goods and crafts. Stop by to see EIGGS club members Jamie Terhaar and Naomi Jones, who occasionally sell their jewelry items at the market.

🏠 DO YOU HAVE SUGGESTIONS FOR EIGGS CLASSES OR WORKSHOPS?

Several new members have been asking about classes or workshops. Summer is busy for everyone, but fall is a great time to either teach or take a class.

In order to plan for classes, we need to know what you are interested in. What do you want to learn? What would you like to teach?

In the past year, Deb Chagares taught wire-wrapping, Danny Spurgeon taught two Viking weaving sessions, and Mary Ann Morse taught members to make gemstone trees.

We've been trying to convince Naomi Jones to teach a wire-weaving class or two. Perhaps Marty Lucas would teach club members to make tree of life pendants or Joy Ingerman could teach beading basics?

If there is a skill you would like to learn, please send a request to EIGGSnews@gmail.com, and we will try to find a club member to teach it.

If you have a skill you would like to share with the club, again, please e-mail EIGGSnews@gmail.com so that we can arrange for class times, supplies and registration.



Wire weaving



Tree of life pendant



Gem tree



Viking weaving



Wire-wrap

JOE WIRRIK INVITED TO JURIED SHOW, AUG. 13

Silversmith and club member Joe Wirrig has been chosen to take part in this year's "Art on the Lawn" fine art and craft show in Yellow Springs, Ohio. The one-day event will be held on Saturday, August 13, from 10 a.m. till 5 p.m.

Approximately 100 artists -- jewelers, painters, ceramists, photographers, fabric artists, woodworkers, metalworkers, calligraphers and more -- were chosen to participate in this juried show sponsored Village Artisans.



Yellow Springs is only about an hour away from Richmond. Once you've visited with Joe and finished exploring the art fair, you can check out a variety of eclectic shops, great dining, a restored movie house, and the Glen Helen nature preserve and raptor recovery center -- not to mention cooling off at the end of the day with locally produced ice cream at Young's Dairy.

Information

Art on the Lawn

Where: 200 S. Walnut St.
Yellow Springs, OH 45387

Hours: Saturday, Aug. 13,
10 a.m.-5 p.m.

Cost: free admission

Website: villageartisans.blogspot.com



Rhodonite & Cobalto Calcite



Pietersite & Filigree Silver and Pearl Marra Mamba



Turquoise & Copper



Agate, Damsite, Spiny Oyster, River Rock

UPCOMING SHOWS

August 19-21—SOUTH BEND, IN: MWF Convention & Show Show and sale; Michiana Gem & Mineral Society, St. Joseph County 4-H Fairgrounds, Ester Singer Building; 5117 South Ironwood Rd.; Fri. 12-7 p.m., Sat. 10 a.m.-6 p.m., Sun. 10 a.m.-5 p.m.; Admission \$3, Children 6-12 \$1; Michiana Gem & Mineral Society 53rd Annual Jewelry, Gem & Mineral Show and Sale and 76th Midwest Federation of Mineralogical & Geological Societies Convention. Attractions include gem, fossil, mineral and jewelry dealers, lapidary arts demonstrations, exhibits, Kid's Korner, and silent auction. Contact John Davis, (574)-232-8823; e-mail: sumu95@hotmail.com; Web site: www.michianagms.org

Sept. 9-11—GREENFIELD, IN: Annual show; 500 Earth Sciences Club, Hancock County 4-H Fairgrounds; 620 N. Apple Street; Fri. 10 a.m.-7 p.m., Sat. 10 a.m.-7 p.m., Sun. 10 a.m.-4 p.m.; Free Admission; Dealers and swappers in fossils, minerals, gems and jewelry and lapidary equipment plus silent auctions, door prizes and much more. Kids activities, demonstrations, educational displays and programs for all. Contact Cheryl Hamilton, 3507 Luewan Dr., Indianapolis, IN 46235, (317)-897-3369; e-mail: clhamilton1951@gmail.com

Sept. 30-Oct. 2—INDIANAPOLIS, IN: Annual show; Treasures Of The Earth Gem & Jewelry Shows, Indiana State Fairgrounds - Ag/Horticulture Bldg; 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 when accompanied by an adult. 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 Ring with a precious stone that will be given as a Grand Prize. Note the Fairgrounds charges \$5 per day for parking. Contact Van Wimmer, Sr. - Show Director, 5273 Bradshaw Road, Salem, VA 24153, (540) 384-6047; e-mail: van@toteshows.com; Web site: www.toteshows.com

Oct. 14-16—FORT WAYNE, IN: Annual show; Three Rivers Gem and Mineral Society, Allen County Fairgrounds; 2726 Carroll Rd.; Fri. 10 a.m.-6 p.m., Sat. 10 a.m.-6 p.m., Sun. 11 a.m.-5 p.m.; Adults \$5, Seniors \$3, Students \$1, Children free. Gem, fossil, mineral and jewelry dealers, lapidary arts demonstrations. Viking knit classes, geode cracker, gem sluice, kids games, door prizes, silent auction, fluorescent room and more. Contact Russell Greim, (260) 403-0450; e-mail: 3riversshow@gmail.com; Web site: bit.do/3rivers-show

YOUNG CLUB MEMBERS EARN FAIR HONORS

Categories & award information provided by Naomi Jones

Chase Silven

showed in Pets, champion and grand champion; Construction Toys, Blue Honor; nine rabbits, two meat pens, and one doe and litter, awards including two 2nd, a 3rd, a 5th, a Best 4 Class, two Best of Variety, two Best Opposite Sex of Variety, and Best of Breed and Grand Champion doe and litter



Jonathan Terhaar

showed Photography winning a Red; Models winning a Blue Honor and Reserve Champion; and Miscellaneous Crafts winning a Blue Honor, Champion Reserve Grand Champion. He won Senior Champion and Grand Champion with his cows. He showed seven rabbits, winning 2nd, 3rd, 4 Best of Variety, two Best of Breed, Best Opposite Sex of Variety and Best Opposite Sex of Breed



Briana Jones

showed Photography, winning a Blue Honor; and she also showed one rabbit and a meat pen, winning 4th



Dakota Jones

showed Recycling, winning a Blue; Photography, winning a Blue Honor and Reserve Champion; Pets, winning a Blue. She also competed in Rabbit Ambassador, winning a first place and going to State Fair; Rabbit Showmanship, winning a first place; and she showed four rabbits, winning two Best of Variety, Best Opposite Sex of Breed, 2nd



Faithe Jones

showed Miscellaneous Crafts, winning a Blue Honor and Reserve Champion; Garden Single Herb, winning a Blue Honor, Reserve Champion and Reserve Grand Champion; and Photography, winning a Blue. She also showed one rabbit and a meat pen, winning Best Opposite Sex of Variety, and placed second in rabbit Ambassador and Rabbit Showmanship



Israel Jones

showed Recycling, winning a Blue Honor and Champion; and one rabbit and one meat pen, winning a Best of Variety

Mikala Jones

showed 2 rabbits and a meat pen, winning 3rd and Best Opposite Sex of Breed; and also Photography, winning a Blue



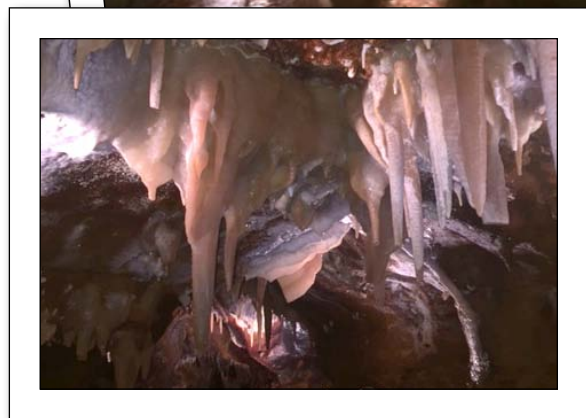
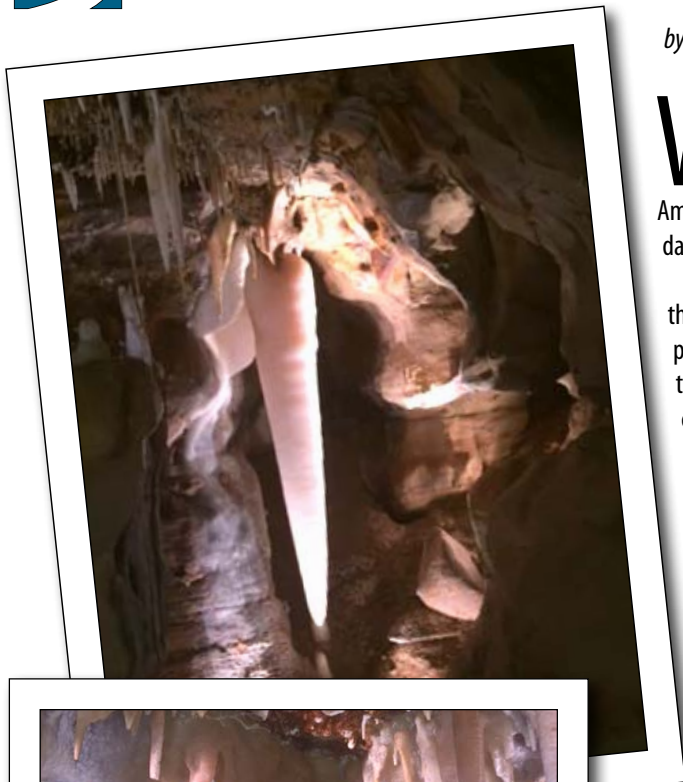
Xavier Jones

showed in Miscellaneous Crafts; Recycling; showed six rabbits, one meat pen, and competed in the Rabbit Ambassador and Showmanship. He won a Blue Honor, Reserve Champion and Reserve Grand Champion, 2nd in Ambassador, 3rd in showmanship, and two 2nds, 4th, 5th, Best Opposite Sex of Variety, Best of Variety in rabbits

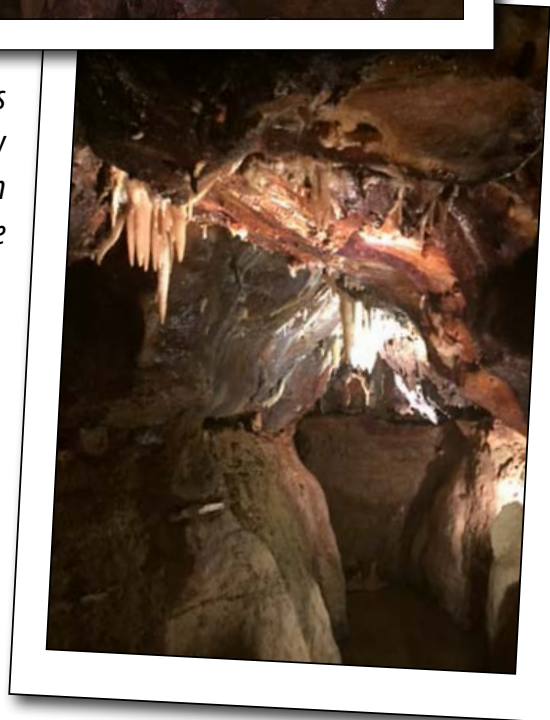


ON THE ROAD: OHIO CAVERNS

by Jean & Steve Blue, with information from www.ohiocaverns.com



photos
by
Alan
Kutche



We recently went to the Ohio Caverns for a day trip with family. The picturesque Ohio Caverns, located at West Liberty, Ohio, is one of Ohio's oldest and most popular tourist attractions and features some of the most unique formations in America. The caverns are an hour and a half from Richmond and make for an enjoyable day trip. If you are in the area, be sure to stop by and check it out.

The caverns remain at a constant 54 degrees Fahrenheit throughout the year and the air is always fresh and invigorating. The path through the cavern allows you to enjoy the natural beauties of the cavern safely and conveniently. There are approximately 3.5 miles of underground passageways, making it the largest cavern in Ohio with the deepest point at 103 feet.

The cavern is open daily except for Thanksgiving and Christmas and offers three tours: Natural Wonder, Historic and Limestone.

The Natural Wonder Tour, which is the tour we took, is the section of the cavern that is covered in white crystal formations and exquisite colors. On this tour you learn about geology and the unique cavern environment. You follow a winding path overlooking the picturesque Mingo Valley to enter the cavern through a sinkhole entrance.

It is an easy walk down into the cavern on the paved path that continues into the cavern. The path is narrow at places and taking a stroller for young children is not advised. Beware of the exit of the cavern though as it is 60 steep steps up and not for the faint of heart. This is a one hour tour and is only offered during the summer season.

While in the caverns, visitors are asked not to touch any surface, including ceilings and walls. Wiping away any moisture will remove minerals that have not yet hardened thus destroy future growth. It was so hard not to touch the beautiful crystal formations; they are so awesome you just want to reach out and touch them.

The Historic tour retraces the steps taken when the cave was first discovered in 1897 and covers the history of one of Ohio's oldest tourist attractions. There are 44 steps to enter and 38 steps to exit. This is a one hour tour.

The Limestone tour offers those with limited mobility the opportunity to easily access areas of the cavern and takes about 25 minutes.

The Ohio Caverns has no natural opening and was not discovered until 1897 when a 17-year-old farmhand became curious about a small sinkhole. He noticed the area filled with water after heavy rains but the water quickly drained into the ground. Curious to find out where the water was going, he began to dig. Several feet down, he encountered limestone bedrock and noticed a small crevice. He worked his way into the crevice and discovered the Ohio Caverns.

The landowner, with the help of local farmers, widened the crevice and constructed a building over the opening of what became known as Mount Tabor Cave. The original tours were self-guided, and for a small fee visitors could rent lanterns from the landowner with one restriction, they had to be out by nightfall. At the end of the day, the land-owner counted his lanterns.

continued on page 9

Information

Where: 2210 East State Route 245
West Liberty, Ohio 43357

Hours: 9 a.m.-5 p.m. May 1- Sept. 30;
10 a.m.-4 p.m. Oct. 1- April 30

Tours: \$17 adults

\$9 children 5-12, under age 4 = free

E-mail: info@ohiocaverns.com

Website: ohiocaverns.com



ON THE ROAD: OHIO CAVERNS

continued from page 8

If any were missing, he knew someone was still in the cavern, possibly lost or with a broken lantern. Someone would then go into the cavern to help the missing visitor find their way out.

"Crystal King" is the pride and joy of Ohio Caverns. It is the largest stalactite in Ohio and is renowned for its pure white color and nearly perfect form. The Crystal King is approximately five feet long and well over 200,000 years old. The water dripping from its tip is evidence this formation continues to grow.

Ohio Caverns is recognized as "America's Most Colorful Caverns." This is made possible by the abundance of minerals in the ground surrounding the cavern. Water traveling through the ground dissolves the minerals. Once the water reaches the open air of the cavern, it very slowly evaporates and leaves the minerals behind to harden. The minerals stain the ceilings and walls in vibrant colors. The red and orange colors come from iron in the form of iron oxide (rust), while the darker black and blue colors are derived from manganese.

One of the most common minerals found in limestone is calcite (calcium carbonate). When the water drips from the ceiling, it leaves tiny amounts of calcite behind to harden. Drip after drip adds to the calcite deposit, and eventually a stalactite begins to form. When the water drips, it takes excess calcite to the floor. Drip after drip slowly adds to the calcite pile on the floor until a stalagmite becomes visible. The size of stalactites and stalagmites depends on the drip rate. If the water drips slowly, it leaves most of its dissolved calcite on the ceiling and the stalactite grows larger than the stalagmite. If the water drips quickly, the calcite does not have time to harden on the ceiling. The water takes most of it to the floor, so the stalagmite grows larger than the stalactite.

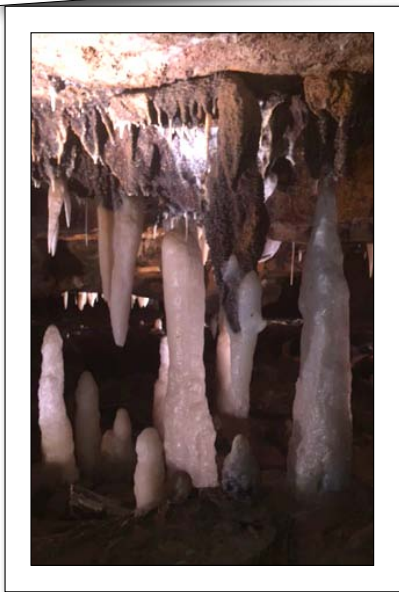
Stalactites and stalagmites grow in pairs, one up and one down. When they grow so large they touch, the new formation is called a column or pillar. A column is a formation that touches both the ceiling and the floor.

Geologically, Ohio Caverns is still relatively young. Water continues to seep through the limestone and deposit minerals on ceilings, walls and floors. Water evaporation is a critical part of this process, but in an environment with a high humidity and low temperature, 54 degrees year round, evaporation is an extremely slow process. It takes 500 to 1,000 years to create a cubic inch of calcite. Two formations less than a water drop apart could take up to 50 years to be joined. This is the reason visitors are asked not to touch any surface within the caverns. Wiping away any moisture will also remove minerals that have not yet hardened, thus destroying future growth.

When iron and calcite are found together, the minerals typically combine, giving the calcite an orange tint. In these rare dual formations, (above, middle photo) the two minerals remain distinctly separate. Another mysterious aspect of these formations is the brittle rust is able to support the much heavier calcite beneath it. Ohio Caverns is the only known commercial cavern in the United States where these rare formations can be seen.

So travel on over to the Ohio Caverns and take a tour. There is a playground, picnic area and a gem mining sluice the kids are sure to enjoy. And don't forget to check out the gift shop. Do you know the main difference between a cavern and a cave?

A cavern has no natural entrance but a cave does.



■ Soda straws (left) are a special type of stalactite. As the water drips from the ceiling, the calcite hardens in a ring. Drip after drip moves through the center of the ring, always depositing the mineral on the outside and eventually forming long, slender, very fragile tube like a soda straw. ■ Sometimes, a soda straw can get clogged. The water on the inside will then find a weak spot in the calcite and begin to leak from the side of the soda straw. The calcite then forms bulges that can grow downward, sideways, or even back up toward the ceiling. These formations are called helactites.



ON THE ROAD: INDIANA STATE MUSEUM

State Museum celebrates bicentennial with *Indiana in 200 Objects* exhibit

press release information from indianamuseum.org



From the literal bedrock of Indiana to James Dean's iconic leather jacket, *Indiana in 200 Objects: A Bicentennial Celebration* explores and celebrates the history, science and culture of the Hoosier state through 200 iconic and interesting objects.

Featuring artifacts from the Indiana State Museum and Historic Sites' own extensive collection, as well as objects from partner organizations and institutions like the National Archives and Records Administration, seeing this exhibition is a fantastic way to celebrate 200 years of statehood.

A tiny sample of the artifacts to be exhibited includes a fully mounted mastodon skeleton, Mario Andretti's Indy 500 fire suit, a leather jacket Elton John gave to Ryan White, a Duesenberg automobile, Reverend Theodore Hesburgh's Presidential Medal of Freedom, Amelia Earhart's flight jacket, Johnny Appleseed's drinking flask, Indiana's electric chair, a copy of the 13th Amendment signed by Abraham Lincoln and a military drone built by Rolls Royce.

"There are so many amazing objects in this exhibition like Larry Bird's college player of the year trophy, the Act of Congress that officially made Indiana the 19th state, astronaut Gus Grissom's U.S. Air Force uniform and Cole Porter's Tony Award... and that's just barely the tip of iceberg. The curators could present a similar inventory with completely different artifacts that are as important and familiar as those on this list and we'd still just be getting started," Ogden added.

"This exhibition [introduces] significant moments, events, artifacts and people from Indiana's past and present, as well as present our state's amazing natural history," said Dale Ogden, chief curator of history and culture. "The experience will showcase the breadth and depth of Indiana's history including its contributions to the nation and the world."

200 Objects is organized into nine themes addressing some aspect of Hoosier life from statehood to globalization, local to universal and inspirational to cautionary.

Information

On display till: January 29, 2017

Where: 650 West Washington St. Indianapolis, IN 46204

Hours: 10 a.m.-5 p.m. Mon-Sat. 11 a.m.-5 p.m. Sunday.

Admission: \$13, adults; \$8.50 children; \$12 seniors

(free with pass from Morrison-Reeves)

Website: indianamuseum.org



Chuck Taylor's "Chucks", 1957-1962

Converse All Stars, affectionately known as "Chucks," have evolved from a World War I era athletic shoe to a 21st century fashion staple for baby boomers and hipsters alike. After dominating the athletic market for decades, Chucks were reinvented as a recreational shoe in the 1980s, achieving cult status before becoming mainstream. The now iconic shoes were named for Converse salesman Charles Hollis "Chuck" Taylor (1901-1969), a former Bartholomew County basketball player and Brown County native who made improvements to the original design in 1923.

Collection of the Indiana State Museum and Historic Sites, Gift of Abraham Amador

■ Crinoids from Crawfordsville and an original pair of "Chuck Taylors" are just two of the objects in the *Indiana in 200 Objects* display at the Indiana State Museum. The display will be at the museum through January of 2017.

MRL Indiana State Museum Pass Information



Morrison-Reeves Library in Richmond has three passes to the Indiana State Museum, which you may check out with your library card.

Each pass is good for up to four complimentary general admissions to the State Museum in Indianapolis and validated \$3 parking in the White River State Parking Garage.



ON TREND: GEODE CAKES, COOKIES & CUPCAKES

photos and information from boredpanda.com and dailymail.com

When cake designer Rachel Teufel posted a photo of an amethyst-inspired cake, it took the internet by storm and now rock candy is the latest trendy accent on cakes, cupcakes and cookies. Teufel's original "amethyst" cake is on the left.

According to BoredPanda.com, Teufel said, "The edible geode is made from a combination of granulated sugar and rock candy that was then crafted with multicolored modeling chocolate and designed within a fondant covered cake. Additional details were added with hand painting and gold leaf techniques. This cake took about 16 hands-on hours to create with several more hours of planning involved prior to making the cake. I was given several pieces of inspiration to draw ideas from, including actual geodes, a beautiful illustration, and a variety of table decor items like plates, chargers, and geometric floral arrangements. I knew I wanted to create a show stopping cake and use the geode as the focal point creating an awe-inspiring visual experience for the guests."





ON THE ROAD: 2016 AGATE EXPO

For four days in early July, Cedarburg, Wisconsin, was home to the largest collection of agates in the world at the 2016 Agate Expo. The event drew an anticipated 10,000 visitors to see 128 displays of world-class agates, many of them rare and of seldom-seen quality.

The Agate Expo is held at various locations across the country, approximately every four years, and draws collectors and experts from around the world. What sets this show apart is the scope and quality of the stones presented. The pieces in the exhibits were phenomenal, and the items for sale were marketed for true collectors.

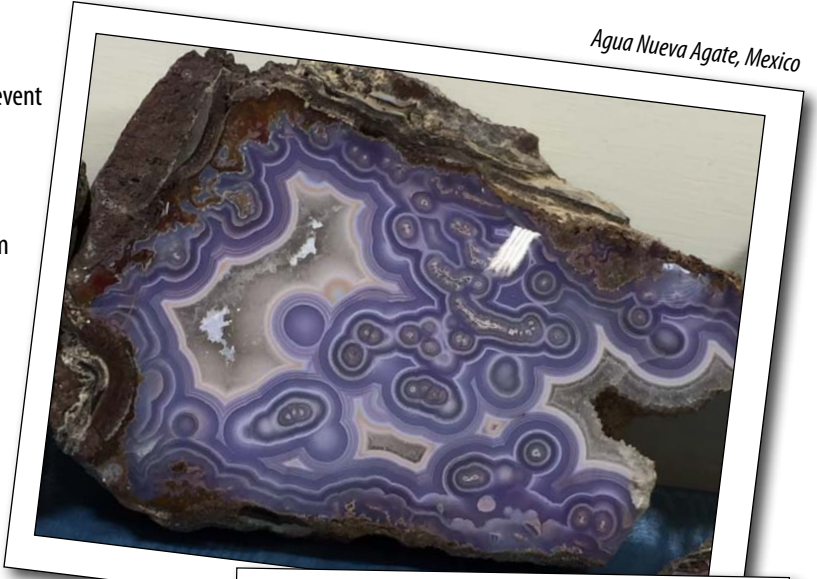
The event began with a symposium Thursday, July 7, which featured speakers covering topics including Agate in Bone, Paleotrochis and other Mistaken Identities, Agates of Saxony, Baker Ranch Thundereggs, Agates with Inclusions, Idar-Oberstein -- Over 700 Years of Agate and Gemstone History, and more.

Symposium speakers included noted experts in their fields including Mark Anderson, Dr. Jens Goetze, Eugene Muller, Thom Lane, Marco Campos-Venuti, Dietrich Mayer, Pat McMahan and Johann Zenz.

The show opened to the public Friday, July 8. Friday's speakers included Lorrie Peterson "Characteristics of Agate"; Brad Cross, "Nature's Surprise Packages: The Coconut Geode"; Lori Coleman "Lava Cap Thundereggs"; Pat McMahan "Happy Face and Critter Agates"; Roger Clark "Fairburn Agates"; and Brad Tanas "Texas Bouquet Agates".

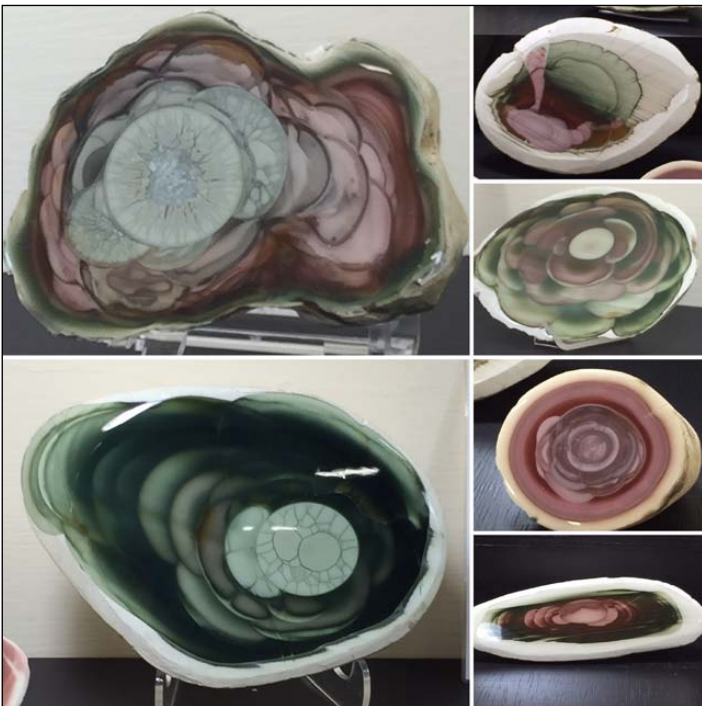
Saturday brought four more speakers: Walton Wright "Agatized Wood"; Doug Moore "A Microscopic Look at Agate"; Scott Wolter "Lake Superior Agate"; and Marco Campos-Venuti "Nodular Banded Agate."

Agua Nueva Agate, Mexico



Fairburn Agate, South Dakota

DVDs of the 2016 Agate Expo are available at [The Gem Shop, thegemshop.com](http://TheGemShop.com)
My Agate Expo photos are available at [flic.kr/s/aHskEczJT](https://www.flickr.com/photos/aHskEczJT/)



Royal Imperial Jasper, Mexico



Lake Superior Agate



ON THE ROAD: 2016 AGATE EXPO

For more photos from the Agate Expo visit
flic.kr/s/aHskEczZjT



Coyamito Agate
Pseudomorph, Mexico



Chinese Fightblood (or Fighting Blood) Agates



Candy Dish Mexican Agates



Dryhead Agate, Montana



Morrisonite, Oregon

The Indiana Dunes: Relics of the Ice Age

A halt in the retreat of glacial ice between 18,500 and 17,000 years ago culminated in the deposit of a moraine along the southern shore of Lake Michigan. This high topographic feature acted as a dam for water when the ice retreated north, thus forming early Lake Michigan. Continued northward retreat of the glacier and warping of the Earth's surface after the weight of the ice was removed caused the opening and closing of outlets, forcing water levels in Lake Michigan to rise and fall. Sediment eroded from the margins of this early lake was transported southward to Indiana by waves

and currents. Three highstands of the lake produced beach ridges and dune sand that arc across northwestern Indiana, marking the locations of the former shorelines.

The shoreline nearest the lake, Tolleston Beach, is the widest and has the greatest relief, having had about 6,000 years to form. Winds from the west to the north blew sand from the beach face into large horseshoe-shaped dunes. These dunes migrated inland and along the shore. In some cases, the dunes have systematically buried trees and then reexposed them.



Art on the Lawn



Sat., Aug. 13, 2016
10 am-5 pm
Mills Lawn School
Yellow Springs, Ohio
www.VillageArtisans.blogspot.com



MWF CONVENTION IN SOUTH BEND, INDIANA!!

Michiana Gem & Mineral Society's Annual Jewelry, Gem & Mineral Show and Sale

53rd Annual Show and the 76th Midwest Federation of
Mineralogical & Geological Societies Convention

August 19, 20, & 21, 2016

Friday Noon to 7 pm * Saturday 10 to 6 pm * Sunday 10 to 5 pm
Show Theme: "Midwest Minerals"



St Joseph County 4-H Fairgrounds
Esther Singer Building
5117 South Ironwood Road
(Ironwood and Jackson Road)
South Bend, Indiana 46614

Admission:
Adults: \$3.00
Kids 6-12: \$1.00
Under 6: FREE
Parking: FREE

Two Host Hotels!

Super 8 (Wyndham Hotel)
4124 Ameritech Dr.
South Bend, IN
1-574-243-0200
\$48 - \$90 plus tax - depending on room type
Located off U.S. 20 Bypass & I-80/I-90 Toll
Road exit 72.
Free continental breakfast, wifi, indoor pool,
guest laundry, & elevator.

Candlewood Suites (IHG--Holiday Inn)
3916 Lincoln Way West
South Bend, IN
1-574-968-1072
\$110 plus tax
Located east of U.S. 20 Bypass near South
Bend Airport.
Free laundry, wifi, fitness center & 24 hr.
convenience store.

By John Davis, MGMS Show Chairman

The Michiana Gem & Mineral Society in South Bend, Indiana, is holding its 53rd annual Gem and Mineral Show this year in conjunction with the 76th MWF Convention. We would like to invite everyone to join us for a fabulous weekend.

This year our show will have two guest speakers. The first will be Mark Tarner, who is a club member, amateur paleontologist, and local businessman. He will give a talk on the process of digging and recovering his Duckbill Hadrosaur. The second speaker, Mr. Rick Strapple of "The Rare Earth Company," will talk about Midwest minerals.

We will have some fantastic dinosaur displays from Mark Tarner and our other paleontologist, Don Szczodrowski. Many other displays of self-collected and handcrafted arts and crafts from our local members will be enjoyed by all who view them.

But above all else, the highlight of our show is our silent auction tables. We have, at any given time, nearly one hundred items being auctioned. We have these auctions every half hour, through the entire weekend. Auction items run from old magazines to gems and minerals. Even our vendors seem to find something to bid on.

And don't forget, Sunday will be the MWF Silent Auction. If you can't find something on Saturday, see what items will be available on Sunday, from all over the Federation! It will be a rockin' good time!

CONVENTION & SHOW SCHEDULE

St. Joseph County 4-H Fairgrounds
Esther Singer Bldg.
5117 S. Ironwood Rd. (Corner of Ironwood & Jackson)
South Bend, Indiana
(All events will be held in the Esther Singer Building)

FRIDAY: August 19th

12:00 p.m. - Show opens
7:00 p.m. - Show closes

SATURDAY: August 20th

7:30 a.m. - Light breakfast (Esther Singer Kitchen)
8:00 a.m. - State Directors meeting
9:00 a.m. - Executive Meeting
10:00 a.m. - Show opens
11:00 a.m. - PROGRAM: *Finding a Dinosaur*, by Mark
Tarner of the South Bend Chocolate
Company
12:00 p.m. - Lunch (Esther Singer Kitchen)
12:00-1:00 p.m. - Delegate registration
1:00 p.m. - Council of delegates meeting
2:30 p.m. - PROGRAM: *Mineralogy*, Mr. Rick
Strapple from the Rare Earth Company
6:00 p.m. - Show closes
7:00 p.m. - Awards Banquet

SUNDAY: August 21st

10:00 a.m. - Show opens
12:00 p.m. - Light lunch (Esther Singer kitchen)
5:00 p.m. - Show closes