



# The Rocky Reader

The Monthly Newsletter of The  
Toledo Gem and Rockhound Club

Volume 57, Issue 6

June 2019

## Message from the President

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Dear Club Members,

Yep, we are doing it again! It's time for the Patriotic Contest! This year, the 1<sup>st</sup> prize is \$30, 2<sup>nd</sup> prize is \$20 and 3<sup>rd</sup> prize is \$10. The Item you enter into the contest can be jewelry or some sort of patriotic display. The entry must have at least one of these items: beads, metal, wire, rock, or cabochon. Use your imagination! All club members are encouraged to enter this fun event.

If you missed our last meeting and all the socializing and fun, you will want to be at this next meeting! We will be meeting at the Toledo Artist Club building in the Toledo Botanical Gardens. If it's a nice day, you might want to come early and take a small walk thru the gardens and enjoy the scenery with the beautiful flowers.

As a final note, while we are in search of a new building, if you see a possible place, please give us the address and contact person and phone number to Joanna Toepfer, Meg Barnhizer or Catherine Clevenz. That way we can contact the person that is selling or leasing to make sure they have what we are looking for in a new home. Stay safe while you keep on rocking!

Catherine Clevenz, President

### Why Join a Rock Club?

Joining a Club is a great way to meet other people in your area with similar interests. You can also learn new skills, since some clubs offer classes in things like cabochon cutting, faceting, glass beading, metal crafts, wire wrapping, and more. Not all Clubs have a Craft Center with equipment freely available to members but those who do are extremely fortunate. Field trips to rock and mineral collection sites are another benefit of being a club member. Training and certifications are offered by Clubs that will allow you to participate in a wide range of interest and activities. Some clubs feature programs for youth within the club itself or through outreach activities. Many clubs also provide benefits to their communities with scholarships and service. The best clubs are those whose members serve with their time and leadership.

# **The Toledo Gem and Rockhound Club News**

**June 2019**

## **June Meeting Announcement**

The next general meeting of the Toledo Gem and Rockhound Club will be held in the TBG Artist's Club's Studio on June 19<sup>th</sup> at 7 pm. Kealy Goodale is going to talk about social media opportunities and how to photograph your work.

## **Special Meeting of the Board**

An Executive Session of the TGRC Board will be held in the Craft Center on Thursday, June 6<sup>th</sup> at 6:30 pm.

## **TGRC Inventory of Assets**

An inventory of club assets to include machinery, tools and equipment, furniture and display cabinetry, special rock and mineral specimens, office supplies and electronics will be completed by the 31<sup>st</sup> of July, 2019. Moderators will be responsible for the inventory of assets assigned or under their control. The President has delegated responsibility for assets outside of the above to other members of the Club.

## **New Group for Rockhounds:**

The Rockhound Group is made up of members who would like to focus on the core interest of our hobby. They will exchange information on prospecting, identifying and collecting rocks, minerals, meteorites and fossils for the benefit of the club's members. This Group is open to the public, meeting on the 2<sup>nd</sup> and 4<sup>th</sup> Mondays of each month from 6:30 – 8:30 pm at a location of their choosing. In June that will be on the 10<sup>th</sup> and 24<sup>th</sup> of the month. The Rockhound Group will identify specimens and discuss other issues such as handling and storing of specimens, proper labeling and various methods to display collections. In addition, Group members may trade/swap rock and mineral specimens among themselves, including common rocks, fossils, metallic ores, gems, meteorites and semi-precious stones. In order to help to facilitate the activities of this new group Editor, Tom Barnhizer, ask that interested members contact him in the next week or two so that they can be put on a Group email/phone list.

## **Field Trip Chair - Message from Kealy Goodale.**

Should any member want to organize a field trip they should contact Kealy with information on the activity including planned dates and times. Her contact information is included in the list of Officers and Committee Chairs on page 1. We look forward to Kealy's ideas for awesome field trips in the year ahead.

## **Access to the Garden**

With Summer right around the corner our hours of daylight are growing longer. we can enter the park via the Main Gateway entrance or the Olympia Drive entrance which is between the main gate and the Education Center. You may use the parking lot by our Craft Center if space is available or choose to park in the Garden in the lot next to the Toledo Artist Guild. As a reminder, when using the Craft Center the last one out after sunset should close and lock the gate access to our parking area.

## **New Garden Ambassadors Toledo Botanical Garden & Wildwood**

This new volunteer assignment will help with scheduled tours of the gardens by welcoming tours, getting the guests started on self-guided tours, answering questions about the gardens, and assisting

with garden bed identification. Please contact Kelly at [kelly.griffin@metroparkstoledo.com](mailto:kelly.griffin@metroparkstoledo.com) with questions or for information on our upcoming training.

### **Olander Park Activities**

Fossil Park opened on April 15<sup>th</sup>. Access to the Parks is off of Centennial Road across from Mayberry Village's Shopping Center. Fossil Park provides the public with the opportunity to collect 350-million-year-old marine fossils from the Devonian Period such as mussels, brachiopods, crinoids and, everyone's favorite, Trilobites. The first tetrapod's or land-living vertebrates, appeared during the Devonian, as did the first terrestrial arthropods, including wingless insects and the earliest arachnids. Crinoids and other echinoderms, tabulate and rugose corals, and ammonites were also common.

### **The MWF CONVENTION**

The 2020 MWF Convention will be hosted by the Livingston Mineral Society in Howell, Michigan. If you would like to see the monthly newsletter of the MWF check out the MWF webpage at <http://www.amfed.org/mwf/convention/convention.html>.

### **2019 Fall Open House Show and Sale:**

The TGRC Fall Open House Show and Sale is scheduled for November 2<sup>nd</sup> and 3<sup>rd</sup> and will once again be held at St. James Lutheran Church on W. Sylvania Avenue in Toledo, Ohio. We are looking for members who are interested in conducting a lapidary related workshop or demonstration in addition to the scheduled the Gem Tree Table during this show. In addition to the digital microscope display we will once again set up the Pebble Pit for our Junior Rockhounds. Food and refreshments will be offered to members and the public on both Saturday and Sunday. We ask our members to help us to organize the broadest public information campaign for this Falls Open House beginning in August.

The gym at St James Church has space for up to 14 members to set up tables for display on a first come first serve basis. All tables will be reserved for members until October 1<sup>st</sup> when we will open table reservations to outside vendors. The cost for tables has been adjusted per size. Eight foot tables will be provided for \$20 each and six foot tables \$15. Those members who wish to reserve tables should contact Tom Barnhizer via email, text message or phone as soon as they know how much table space will be required.

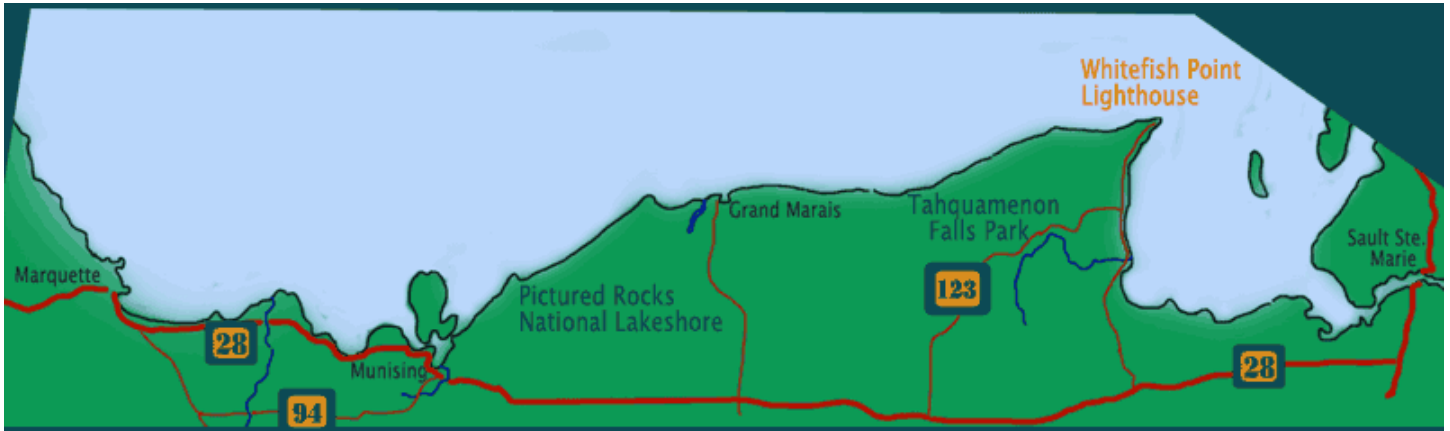
### **Planning Begun for the 2019 Toledo Gem and Rockhound Show.**

Planning has begun for the 48th Annual Toledo Gem and Rockhound Show at the Stranahan Convention Center on Heatherdowns Blvd. in South Toledo. Show Chair, Steve Shimatzki and his wife, Suzanna have a quantity of this year's promotional flyer which in the form of a postcard. The Show Dates in 2019 are Sept. 6, 7, and 8th with set-up on Sept. 5<sup>th</sup>. Steve has formed a committee with committee chairs aided by volunteers to help with loading and clean-up, a crew to prep the Stranahan Convention Center prior to the event and tear down on the final day. Club members should contact Nancy Grove to reserve your display case and begin to prepare displays that will be voted on by the visiting public. Also, Steve would like to invite members to donate generously to the annual raffle. If you would like to volunteer to staff one of the many work stations, demonstrations or presentations that are planned please contact Steve or Sue at [sis132@gmail.com](mailto:sis132@gmail.com) as soon as possible.

### **Field Trip In June (Rescheduled from May due to extremely late Spring conditions):**

As was announced, the Club is planning a Field Trip to Michigan's Upper Peninsula to collect Lake Superior Agates and other rock and mineral specimens. Those wanting to join this Field Trip should be prepared to spend 3 days in Michigan's Upper Peninsula in addition to the 2 days travel time.

Once we cross the Mackinac Bridge, we plan to drive to Newberry Campground which will serve as a base from which we can choose where each of us will begin our explorations. Some intend to search for Lake Superior Agates while others may wish to look for native copper or visit the local mines. Once we have completed our chosen activities, we can rejoin for the caravan home.



There are a half dozen major beaches between the City of Munising and Whitefish Point, a distance of 90 miles.

Newberry is about halfway between the Mackinac Bridge and Grand Marais on the Lake Superior shore, via Highways 123 and 407 (27 miles). The beach at Muskellunge State Park has produced numerous finds while beach combing. Grand Marais Michigan is another favorite, offering an extensive beach with lots of variety of rocks and a reputation for some huge Agate specimens. Grand Marais is also home to the **Gitche Gumee Agate Museum**, a must see stop for any agate fan.

For more ideas on best locations to search for agates and other collectible rocks visit the Lake Superior Trails webpage at [www.superiortrails.com/rock-hound.html](http://www.superiortrails.com/rock-hound.html) .

### **Rockhound Book Review of the Month**

***Rocks Minerals and Gems***; by Sean Callery and Miranda Smith, *A Scholastic guide*. The cover says it all; “a definitive visual catalog of the treasures beneath your feet” with more than 1,000 incredible examples. This book, while intended to serve a younger readership, will appeal to adults who want to discover more about the world and the stories behind the elements that form it. A true value at \$19.99 on online or at a bookstore near you.

### **TGRC Trading Post** **FOR SALE; SLABS !**

Ken and Beverly of Arlington Ohio have over 100 kinds of slabs: Agates, Jasper, Jade, Flint, Opal, Sodalite, Rhodnite, Thundereggs, etc. at reasonable prices. I can personally vouch for that as it took me at least two hours to see only a portion of his inventory. It would be accurate to refer to this collection as “the House of 1,000 slabs.” Dozens of boxes of slabs are cataloged along with his extensive collection of rock and mineral specimens which he generously opens up to Clubs and local schools.

Ken’s farm is located at 20278 Ohio Rte 184 just southeast of Arlington, Ohio, about one hour’s drive from Toledo. Follow I-75 south through Finlay to I-23 south toward Columbus, Ohio. Off I-23 take State route 68 south toward Kenton, Ohio which goes through Arlington. Just ½ mile south of Arlington turn left onto Ohio Rte152 for two miles then right onto SR 184 for about a tenth of a mile on the right. PLEASE CALL **419-694-4203** and ask for Ken. IF NO ANSWER LEAVE A MESSAGE ON

THE MACHINE. Ken says that he will be open for customers for a bit longer this Spring so don't delay.

**The State Line Gem and Mineral Society** will hold its 58th Annual Jewelry, Gem, and Mineral Show/Sale, May 31, June 01 & 02, 2019. We invite all club members, their families and friends to join us at the Junior Fair Building at the Fulton County Fairgrounds, 8514 SR 108, just west of Wauseon, Ohio.

**Admission:**

Adults \$4.00: Seniors and Students \$3.00:  
Children under 12 Free.

**Hours:** Friday 12:00 P.M. - 6:00 P.M. Saturday  
10:00 A.M. - 6:00 P.M. Sunday 11:00 A.M. -  
4:00 P.M.

**MSHA Mine Safety Class**

Joel Vicary will present a MSHA Mine Safety Class on Saturday from 10:00 AM to 3:00 PM. This is a very informative class and results in certification which is necessary for admittance to many quarries. The class is \$15.00 and the Mine Safety Manual (should you need one) is also \$15.00. **[ No Registration required – Walk-ins accepted.]** There will be an hour break for lunch.

**Wire Wrapping Class**

On Sunday, Shellie Carder will teach a wire wrapping class. The class fee is \$30.00. Class size is limited, so be sure to register early.

For additional information contact the Show Chairperson, Sherm Kardatzke at (517) 673-5487 or email him at [sakardatzke@gmail.com](mailto:sakardatzke@gmail.com) .



**GEMCRAFTERS MAY UPDATES:**

**Petoskey Class, Sunday, June 23rd**

We are fortunate in that Petoskey Stone is fairly common in our region as this soft stone fossil can be made into cabochons for jewelry, belt buckles, bolos, knife handle scales, etc. Our Gemcrafters will guide you in selecting the better stones that will take a good polish. They will also show you how to choose from a variety of shapes and patterns that will give you the best results. This class, which is open to all members, will demonstrate the proper cutting, grinding and final polishing in two separate sessions; the first at 1 pm followed by a second at 2:30 pm in the Clubs Craft Center located in the Toledo Botanical Gardens. Registration first come basis; Cost: \$15 materials provided. Contact Joanna Tropfer at (419) 460-0846 or email to [joanna@cqasolutions.co](mailto:joanna@cqasolutions.co) for details and to sign up.



**The June Cabochon of the Month is Oregon Maury Mtn Jasper**

Jasper is an opaque variety of chalcedony where neither light nor images pass through. Jasper contains enough impurities and foreign material to render it opaque. So, the real difference between jasper and agate is the amount of impurities and foreign material contained with a specimen.



While agate is typically a material that forms in the cavities of an igneous rock or limestone, jasper often forms when fine particulate materials are cemented by silica. This often occurs in soft sediments when silica precipitates and cements them into a solid



mass. These included particles are what give jasper its color and opacity. Jaspers are also known to form when volcanic ash or fine pyroclastics are cemented into a solid material from the precipitation of silica from solution. The cementation process is sometimes so aggressive that the sediment, ash or volcanic particles are dissolved or recrystallized into microcrystalline quartz.

### **Open work sessions:**

**Saturdays;** June 1<sup>st</sup>, 15<sup>th</sup> and 29<sup>th</sup> from 9am to 4pm with Joanna Toepfer moderating.

**Wednesdays:** June 5, 12, 19 and 26th from 6 to 9 pm with Chet King moderating.

**Thursdays:** June 6, 13, 20 and 27th from noon to four pm with Chet King moderating.

**Training Sessions:** To learn the correct steps to make a quality cabochon or how to use the Slab Saws and other lapidary equipment. Please contact Joanna Toepfer, Chet King or Elie Ghanime if you would like to participate in any upcoming training session. Introduction to Gem Crafters Classes are scheduled as needed. To participate in any of these beginning classes let Joanna or Chet know of your interest as soon as possible.

**Gem Crafter Moderators:** Thanks to Joanna Toepfer and Chet King. Should any member be interested in becoming a Moderator please contact Joanna Toepfer [joanna@cqasolutions.co](mailto:joanna@cqasolutions.co) who is looking into setting up a Moderator Training Course.

### **Gemcrafters Chair Fund:**

Gemcrafters has reached its goal for donations to purchase the fully adjustable swivel office chairs that will replace the existing metal folding chairs. Joanna has said that they are hoping to get permission from the Board in June that will allow Gemcrafters to buy the new chairs from this temporary fund. Thank you for your generosity and enjoy the new chairs.

### **FACETERS:**

#### **Into to Faceting Class.**

Faceting Gemstones can seem like a challenge, however, it is a skill that can be learned by carefully following some basic steps. Chet King has openings for members to sign up for his hands-on weekend faceting classes in the Craft Center. If you don't have your own Faceting Machine the Club can provide one for you to use. Classes are held on the 2<sup>nd</sup> and 4<sup>th</sup> weekends of each month beginning each day at 10 am through 4 pm.

Elie Ghanime has offered to teach an **Intro to Faceting** Class that covers technical/design aspects and include a hands-on Faceting Machine session. Elie is asking for another eight members to have a minimum of 10 individuals to conduct classes of this nature. The fee for this class is \$85 and includes a printed manual along with hands on instruction. Please email Elie at [eg.therockman@gmail.com](mailto:eg.therockman@gmail.com) to put your name on a list for the next training session.

### **METAL CRAFTERS**

Brian King will be available on Wednesday evenings at 6:00 pm and alternating Saturdays for Weekend Open Sessions. For the month of May Metalcrafters will meet on the 1<sup>st</sup> and 3<sup>rd</sup> Saturdays. Please email Brian at [bking3@me.com](mailto:bking3@me.com) if you would like to attend so he can have the facilities ready.

### **BEADERS:**

TGRC Beaders will meet on the third Monday of the Month at 6PM. The Beaders Group is also putting together Gem Tree Kits for the Open Houses and future projects. In addition, Nancy says that she will have materials for you to make your own Shark Tooth necklace. If you are interested in beading, contact Nancy Grove [nancy7536@att.net](mailto:nancy7536@att.net) for more information.

## **ADVANCED BEADERS:**

The "Extreme" or Advanced Beaders meet on Tuesdays beginning 9 AM to 4 PM. Participants should be able to work independently on their own projects. If you would like to join, but need more information, contact Kathy Petersen [mlrlyt@AOL.com](mailto:mlrlyt@AOL.com) or Shirley Stieb at [sstieb828@gmail.com](mailto:ssstieb828@gmail.com).

## **TRGC Future Rockhounds Of America:**

Our Future Rockhounds were invited to learn more about Lapidary Arts and Crafts at the Spring Open House. Several of our Juniors attended and enjoyed talking to the members about their displays. Many had fun in the Pebble Pit that was a recent addition. They also would like to express their appreciation for the many who provided free specimens to add to their growing collections. Several new family memberships included new additions to the junior program.

The month of May found us at Fossil Park on Centennial Road in Sylvania where we prospected for fossils of the Devonian Era. We would like to thank Tom Marok for his help in finding and identifying our specimens as well as telling us about when and how these fossilized creatures lived 350 million years ago. This was be our first Field Trip of the year, but we are excited for the next. The FRA Club will meet in the TGRC Craft Center on the 4th Saturday of each month from 2-4 pm accompanied by a parent or guardian.

**SUNSHINE:** Thanks to Peggy Argabright for stepping up to fill the position of Sunshine Chair. Peggy will need all of our help in identifying significant events such as births and birthdays, marriages, anniversaries and passing's that are related to our membership. Call Peggy or send your information to [ptoepher@yahoo.com](mailto:ptoepher@yahoo.com)

## **May/June Events and Regional Shows**

**May 31- June 2: WAUSEON, OH** State Line Gem & Mineral Society Annual Show and MSHA Training by Joel Vicary. Fri 12 noon - 6 pm; Sat 10 am - 6 pm; Sun 11 am - 4 pm. Fulton County Fairgrounds, Junior Fair Building, 1814 SR 108, Wauseon. Contact Sherman Kardatzke, (517) 673-5487;

[sakardatzke@gmail.com](mailto:sakardatzke@gmail.com) <http://statelinegms.com>

**8-9: MANSFIELD, OH** The Richland Lithic Lapidary Society Annual Show. Sat 10 am - 6 pm; Sun 11 am - 5 pm. Arts & Crafts Building, Richland County Fairgrounds, 750 N. Home Rd., Mansfield. Contact: Tom Kottyan, (419) 562-1152;

[themineralhouse@netzero.net](mailto:themineralhouse@netzero.net) [www.rlls.webs.com](http://www.rlls.webs.com)

**21-23: BEDFORD, IN** Lawrence County Rock Club Annual Show. Fri 10 am - 6:30 pm; Sat 9 am - 6:30 pm; Sun 10 am - 4 pm. Lawrence County Fairground, US Hwy 50, Bedford. Contact: Dave Treffinger, (812) 295-3463;

[www.lawrencecountyrockclub.org](http://www.lawrencecountyrockclub.org)

## **Nuggets**



Now that's what I call a Leav-r-rite.

## **Rock Shop of the Month: Bills Rock Shop, Delphi, IN**

Bill's Rock Shop located at 113 S Washington St, Delphi, IN 46923 is an easy four hour drive from Sylvania. Bill and his wife Caroline have a real gem of a shop featuring rocks and minerals from around the world, natural and polished stones, crystals and fossils. The following review tells it all:

**Garrett Grossman 5 Stars.** *I'm only ten so I don't usually write ratings, but this definitely needs one. This is my favorite place to go in the world !!! I am a huge rockhound and I try to collect crystals like amethyst and citrine. I also expected a rundown place that sells granite and limestone but not at all! They have a wide selection of rocks, jewelry and antiques. The first time i went in I was dizzy with all of the rocks they had. The lady is very nice and helpful. I give this place a thumbs up.*

Google Bill's Rock Shop 113 S Washington St, Delphi, IN 46923 for a map or diections.

Phone (765) 564-3073

Status Closed until Tuesday 10:00 AM - 5:00 PM

Hours Tue - Sat: 10:00 AM - 5:00 PM

## **Lourdes University's Rock and Mineral Display**

*I decided to republish this article in case you may have over-looked it and, in the hope, that you with your family will take time to pay a visit to Lourdes University Campus this Summer to see this fine collection that we featured last month.*

Lourdes University has a collection of rocks and minerals on display for the use of science classes. The rocks and mineral have been donated to the University over a long period of time. However, they were not organized, and a large number were not identified. Over the years the collection was moved from room to room and finally ended up in some storage rooms and cupboards and boxes out of sight.

Adjunct Instructor, Earl Heath, and Elaine Ault, Instructor, at Lourdes university enlisted the help of **The Toledo Gem and Rockhound Club** to identify and organize [a] collection of rocks that had been donated to the university.

The display is organized to illustrate the Rock Cycle, Moh's Hardness Scale, Igneous, Sedimentary, and Metamorphic rocks. the display is currently being used by the science teachers. Information about the activities of the Toledo Gem and rock show are posted by the display. We are pleased that Diana, Diane and Frank and take great pride in their efforts.





## The Sheridan Cave Pit Fossil Site in Wyandot County, Ohio

The owner of the Indian Trail Caverns tourist site in Wyandot County, Ohio decided to dig through a shallow depression near the cave where on weekends he allows people to visit for a few dollars admission. He hoped to find a passage that led to his cave. Instead, his digging uncovered a former sinkhole trap that had developed when rainwater dissolved through Paleozoic-aged limestone bedrock during the late Pleistocene. The sinkhole cave had since filled with sediment, but his excavation uncovered the bones of the Pleistocene-aged animals that had fallen into the cave. Gregory Macdonald of Cincinnati University took over and supervised the excavation from 1990-1995. After human artifacts were found, Ken Tankersley, an archeologist, became the excavator-in-chief.

The most common fossils in the cave were those of flat-headed peccaries, an extinct species well adapted to living in arid, sandy grasslands. They lived in herds. At least 43 individuals became trapped in the cave. By contrast, only 1 long-nosed peccary, an animal that likely preferred forest edge, fell in the sinkhole. Fossils of other ungulate species found in the sinkhole include the extinct stag-moose (*Cervalces scotti*), caribou, and white tail deer. Two species of bear died in the cave—the extinct giant short-faced bear (*Arctodus simus*) and a black bear. Fossils of some of the species of smaller animals that lived here at the end of the Ice Age were from species that no longer occur this far south: pygmy shrews, yellow-cheeked voles, heather voles, pine martens, and fishers, though the latter may have survived here till the time of European colonization. Red squirrels prefer boreal forests and used to range here as well but presently do not. The extant species of beaver and the extinct giant beaver (*Casteroides ohioensis*) lived in this area then. Raccoons, striped skunks, weasels, woodchucks, chipmunks, gray squirrels, porcupines, and rabbits are part of the present day fauna that also lived here during the late Pleistocene. Bones of turkey, channel catfish, and bullheads were probably brought into the cave by avian predators. As I noted in an essay last week, I hypothesize bullhead catfish were the most common fish living in southeastern North America during the coldest phases of the Ice Age, and that may have been true in the midwest too.



*This bone spear point was found in the sinkhole next to this flat-headed peccary shoulder blade with a hole in it that matches the spear. This is direct evidence that man did hunt peccaries during the Pleistocene—a fact that some archaeologists bizarrely dispute. They dispute it because they want to deny that man is responsible for megafauna extinctions. How much evidence do they need?*

Paleontologists have yet to find the fossils of mammoths, mastodons, horses, bison, elk, helmeted musk-ox, woolly musk-ox, Jefferson's ground sloth, scimitar-toothed cats (*Dinobastis serum*), grizzly bears, or snowshoe hares at this site, but these species have been found in other sites in the region and likely occurred in this area

but none happened to fall inside the pit. I don't think saber-tooths (*Smilodon fatalis*) nor dire wolves ranged this far north. Scimitar-tooths and timber wolves occupied their ecological niches in this region.

Several human artifacts were discovered by paleontologists searching through the vertebrate fossils. A stone arrowhead and scraper were identified as being from a late Clovis culture. Two bone spearpoints were also found, and a hole found in a fossil peccary shoulder blade perfectly matches the spearpoints. One of the points appears as if it had impact damage from striking the bone. Some of the fossil bones are burned—either by humans or in a forest fire. Remains of a butchered snapping turtle suggest humans enjoyed a chelonian snack at this site.

Radio-carbon dating of charcoal indicates calendar year dates of 12,600 BP-13,000 BP. Burned bones give ages about 1000 years older than that.

The site of the Sheridan sinkhole trap was under the southern lobe of the Laurentide Ice Sheet during the Last Glacial Maximum. The sinkhole likely formed following the withdrawal of the glacier when an increase in precipitation facilitated the collapse of the underlying limestone bedrock. The region was mostly bare rock, gravel, and loess (rock ground to dust by glacier movement) for a few centuries; and because it was located at the edge of a receding glacier, conditions

plants to colonize this area were the Pioneer stands of cedar, aspen, and ash environment. Thickets of some unknown spouted, providing protection for the herds capable of enduring the frequent blowing off the nearby glacier. Caribou lichens. After a thousand years or so, even oak colonized the area around the habitat and attracting red squirrels, rabbits, white tail deer, and long-nosed peccary. The cool moist conditions and an abundance of glacial meltwater created bogs and marshes—habitat for beavers, giant beavers, and possibly the stag-moose, if the latter had the same habitat preferences as the extant species of moose. (The stag-moose, despite its name, was not closely related to the modern day moose.) For a few thousand years, boreal forest elements mixed with deciduous flora and fauna, making for an odd environment for which there is no modern analogue. Eventually, as the climate warmed, broadleaf trees became dominant in this region, and sediment filled the sinkhole so that it no longer acted as a trap...and a window to the ecology of the past. <http://www.lithiccastinglab.com/gallery-pages/2001octobersheridencavepage1.htm>



were windy. The first species of lichens that could grow on the rocks. soon took root in the shade-free thorny shrub species probably of flat-headed peccaries, a species sandstorms stirred by the winds also survived here, able to eat grass, spruce, jack and red pines, and site, creating some forest edge

For a full calendar of events and activities visit the "Events Page" of the Toledo Gem & Rockhound Club web-site at <http://www.rockyreader.com/Home/Events> and use the arrow pad to select the month. A copy of the most current calendar is provided below and Printed calendars will be available in the craft center and distributed at monthly meetings.

On Facebook? So is the club along with postings from members and lots of pictures! Please, comment, post your own photos and "LIKE" us! <https://www.facebook.com/ToledoRockhounds>

