



Mid-Ohio Mineral and Fossil Club

The LITHNICS

Volume 62 Issue 2

April 2024

THE LITHNICS



A QUARTERLY PUBLICATION OF
THE MID-OHIO MINERAL AND FOSSIL CLUB
MANSFIELD, OHIO



CURRENT OFFICERS

PRESIDENT	Lawrence Hull
VICE-PRESIDENT	Jim Baumgartner
PAST PRESIDENT	Tom Kottyan
RECORDING SECRETARY	Pat Everly
TREASURER	Pam Kottyan
TRUSTEES	Jason Larson + Joel Likins + Lawrence Hull

CURRENT COMMITTEE CHAIRS

DOOR PRIZE	Pam Kottyan
EDUCATION	Tom Kottyan
FIELD TRIPS	Brad Wagner + Jeff Murray
GORMAN CENTER LIAISON	Tom Kottyan
HISTORIAN	Jason Larson
HOSPITALITY	Joel Likins
MEMBERSHIP	Pam Kottyan and Jason Larson
SHOP	Walt Upchurch
SHOW	Tom Kottyan and Jason Larson
SPECIAL INTERESTS	Joyce Kish, Susan Mathews, Bryan Summer
VIDEO/BOOK LIBRARY	Carolyn Kelly
LITHNICS EDITOR	Bryan Summer

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OUR CLUB

PURPOSE: The purpose of the Mid-Ohio Mineral and Fossil Club, is to create an interest in and study of the earth sciences and all lapidary arts and to afford an opportunity to share knowledge and working techniques with others.

MEETINGS:

General club meetings are at 7:00 pm on the first Monday of the month at:

Gorman Nature Center, 2295 Lexington Avenue, Mansfield, Ohio.

If the first Monday falls on a holiday we meet one week later.

Visitors are always welcome.

Special Interest Group (Classes) meetings are held September through May at 7:00 pm on the second Monday of the month. See Special Interest Chair, Mike McCullough.

CANCELATION OF A MEETING

If for any reason the club officers feel that a meeting should be canceled you will be notified by email as soon as possible. If Mansfield schools are closed so are we. If for any reason you don't feel safe to drive to a meeting, please, please stay home.

Annual dues are:



Adults	\$ 15.00
Children under 16	\$ 5.00
Family	\$ 20.00

Dues are due Jan. 1st of every year. Whether you join in January, December, or any month in between, the cost is the same. Everyone's dues are due again the next January 1st .

LITHNICS: Our quarterly newsletter.

Permission is hereby granted to use any original **LITHNICS** articles, whole or in part, as long as proper recognition is noted with the reprint.

Club members are encouraged to make contributions to the LITHNICS.

Contact: Bryan Summer (bryansummer1@gmail.com)

The Mid-Ohio Mineral and Fossil Club



Message from the President Lawrence Hull

Fellow Mineral and Fossil Club Friends,

Hello again fellow mineral, lapidary and lovers of pretty stones. WOW, the first three months of 2024 have flown by!! Hope everyone is getting a lot of their stones cut and polished or cleaned and organized!!!

We had a club class in March on silver casting that went very well. We got 12 different members that now have a new silver ring, pendant, or even a bracelet!! Everyone seemed to enjoy it and made some new friends along the way!!! We are planning on having a silversmith class coming maybe in April and possibly an opals cutting class too!!! Let us know what kind of classes you'd like to have and we'll try to get them going!

There are a lot of gem and mineral shows that will be going on in the next few months in the area!! Of course our show will be June!!! We are going to need lots of helpers for the show so jump in and help where you can! I really appreciate all the workers we have in our club!!

I hope everybody stays safe out there digging and collecting! I'm down here in Kentucky hunting Agates as I write this!! "The power of the internet" Keep making pretty art stones and bring them to the meetings and show them off to us!!

That's all for now! See you at the meetings!!

Lawrence Hull

Mid-Ohio Mineral and Fossil Club President

Upcoming Meetings – all meetings are at the Gorman Nature Center at 7:00 pm
Continue to watch for information about future meetings in your email.

- | | | |
|-----------------------|--|--------------------|
| ➤ Monday, April 1 | 7:00 Meeting Gorman Nature Center | Club Auction |
| ➤ Monday, May 6 | 7:00 Meeting Gorman Nature Center | Jay Medici Program |
| ➤ Monday, June 3 | 7:00 Meeting Gorman Nature Center | |
| ➤ Monday, July 1 | 7:00 Meeting Gorman Nature Center | |
| ➤ Monday, August 5 | 7:00 Meeting Gorman Nature Center | |
| ➤ Monday, September 9 | 7:00 Meeting Gorman Nature Center | |
| ➤ Monday, October 7 | 7:00 Meeting Gorman Nature Center | |
| ➤ Monday, November 4 | 7:00 Meeting Gorman Nature Center | |
| ➤ Monday, December 2 | Annual Christmas Dinner 5:00 Golden Corral | |

Mid-Ohio Mineral & Fossil Club

**GEM, MINERAL, JEWELRY,
BEAD, & FOSSIL SHOW 2024**



Calcites
JUNE 8 + 9, 2024

Saturday 10 - 6





Sunday 11 - 5

Richland County Fairgrounds - Fairhaven Hall
750 North Home Road, Mansfield, OH
www.midohiominerallandfossilclub.com

Germany Had 90 Minutes to Prepare for a Beach Ball-Sized Meteorite Impact

Meanwhile meteorite hunters rushed to Berlin to find this most rare space rock.
BY MEG ST-ESPRIT FEBRUARY 6, 2024



Aubrite meteorite from asteroid 2024 BX1, found by Laura Kranich near the village of Ribbeck, Germany. LAURA KRANICH, MUSEUM FÜR NATURKUNDE BERLIN

EARTH IS BEING PUMMELED BY meteorites daily, but most of its residents aren't even aware. According to NASA's planetary defense system Scout, nearly 50 tons of meteoritic matter hit the planet daily. Most small pieces are never found, but occasionally a celestial fireball pushes through the atmosphere and lands on the ground. And on January 21 outside of Berlin, Germany, that's just what happened. A meteorite on a wayward journey from the asteroid belt between Mars and Jupiter shattered into dozens of pieces—and meteor hunters from around the world mobilized to begin their search.

In San Francisco, meteor astronomer Peter Jenniskens watched data from Scout as well as the European Space Agency's Meerkat asteroid guard system, which were tracking the meteorite from Asteroid 2024 Bx1. Jenniskens and colleagues—both professionals and hobbyists—furiously worked to predict where the object would land. Teaming up with Lutz Hecht at the Museum für Naturkunde, he boarded his first of two red eye flights. "I spent my nine hour layover in Newark fruitfully calculating where I expected the meteorites to have fallen," he says.

Once in Germany, they went directly to the predicted strewn field south of the town of Ribbeck, partnering with more local organizations and hobbyists. “We very quickly had the local science community organized.”

After a search complicated by storms, the team began to recover pieces of 2024 Bx1 on Thursday, February 1. A landscape architect from Poland, Kryspin Kmiecik, found the largest piece—about the size of a baseball. In the meteorite world, he’s known as the “main mass holder.” There’s an entire community of fellow rockhounds, and Kmiecik explains, “I meet a lot of friends when we go search for meteorites.” He plans to open a meteorite shop in Poznań, Poland in the near future.

Meteorite detection has improved over the last few decades, which is why teams were able to quickly locate the strewn field. Robert Lunsford, Fireball Director for both the American Meteor Society and the International Meteor Organization, says astronomers around the globe are constantly watching the skies. “This particular meteor was the size of a very large beach ball,” he says. “When out in space, something this small is very faint, and it was sheer luck that it was found prior to striking the atmosphere.”



Kryspin Kmiecik found the largest piece, about the size of a baseball. KRYSPIN KMIECIK

NASA located the meteor and gave notification about 90 minutes before impact. That short warning is not concerning, says NASA’s Planetary Defense Officer Lindley Johnson. “If the object were large enough that some damage at the surface of Earth could occur, it would be spotted much earlier than just a few hours away, and the notification process is much more formal to ensure the best available information is provided to our governments and the public.” Astronomers around the world report observations to the International Asteroid Warning Network. This is only the eighth time a small asteroid has been detected while still in space.

One reason it took several days after impact to find meteorite fragments is that this is one of the rarest types of space rock: aubrite. Melinda Hutson, curator of the Cascadia Meteorite Laboratory at Portland State University, says 90% of meteorites are chondrites, which contain metal and are easier to find. Aubrites, though, look like Earth rocks.



Aubrites look similar to rock on Earth, but are very rare. KRYSPIN KMIECIAK

To date, there are only fragments of aubrites in 11 collections worldwide. “Some meteorites can give us an idea of how long it took to build the Earth from small pieces. Others give us insights into the formation of the Earth’s core... The types of meteorites give us a picture of what the building blocks of the Earth may have looked like.”

Jenniskens says that while most meteorites have a black or brown fusion crust, these aubrite fragments have a clear crust, like a glass coating, that allows the beauty of each rock to shine through. It’s unique even among already-rare aubrites. He’s not seen anything like it before and hopes to learn more about the origins of life and planetary defense through further study. “What is it going to tell us about the history of Earth and the solar system?” he muses. “And that’s the fun part for us. What information is contained in this little treasure?”

Halite: Pass the Salt!

Rock and Gem Magazine

March 4, 2024

Story by Steve Voynick.



Halite, better known as salt, is so commonplace it’s easy to forget halite is a collectible mineral with its perfectly formed, sharp-edged cubic crystals. Its hygroscopicity and distinctive taste set it apart from all other minerals and account for its great economic importance and prominent role in history.

Ionic Bonding

Halite's unique properties are because of ionic bonding, the attraction between ions of metallic elements (sodium) and nonmetallic elements (chlorine).

Atoms are considered stable when their outer shells contain eight electrons. Atoms with fewer than eight outer electrons achieve stability by gaining, losing, or sharing electrons. Both sodium and chlorine atoms have three shells. Sodium, with one outer shell electron, achieves stability by losing its electron to create the positively charged sodium cation Na^{1+} . Chlorine, with seven electrons in its outer shell, achieves stability by acquiring an electron from another atom to create the negatively charged chlorine anion Cl^{1-} .

When chlorine atoms contact sodium atoms, chlorine aggressively grabs sodium's single outer electron, transforming both atoms into oppositely charged ions. This opposite-charge attraction is the ionic bond that holds sodium and chlorine ions together in the stable halite molecule.

Structure and Solubility

Halite's crystal lattice consists of alternating rows of sodium and chlorine ions arranged in three axial directions at right angles in a cubic structure. Because ionic bonding is relatively weak, moderate mechanical pressure easily separates the rows to account for halite's perfect, three-directional cleavage and its softness of Mohs 2.0.



Salt mines are by far the most popular underground-mine attraction worldwide.

The interaction of ionic bonding and water molecules is responsible for halite's properties of solubility, hygroscopicity and taste. In the asymmetrical water molecule (H_2O), two hydrogen atoms are positioned together on one side of the larger oxygen atom. This creates a dipolar molecule with a weak positive charge on the hydrogen side and a negative charge on the opposite side. The mutual attraction between water's dipolar molecules, called hydrogen bonding, is strongest at cold temperatures—the reason why water freezes into solid ice.

When water's dipolarity disrupts halite's ionic bonding, the halite quickly disassociates into soluble sodium and chlorine ions. This, in turn, disrupts water's hydrogen bonding to lower its freezing point—thus making halite an effective deicing agent for winter highways.



This rock salt specimen is from Pakistan's Khewra Mine, the source of the widely marketed "Himalayan salt"; it owes its orange coloration to particles of included hematite.

The sensation of taste is created when soluble compounds disassociate into ions that are detectable by the tongue's taste buds. Halite's "table-salt" taste, the most familiar and recognizable of all mineral tastes, is produced when taste buds react to the presence of sodium ions.

Besides imparting its own distinctive taste, salt helps ions in other foods to disassociate, dissolve, and impart their own unique stimuli to the taste buds. The five basic tastes are bitter, sweet, sour, umami (savory or meaty), and salty. Salt decreases bitterness and enhances all other tastes.



This specimen from California's Searles Lake shows a scattering of white halite cubes atop a reddish matrix of massive halite. (Steve Voynick)

Hygroscopicity

Hygroscopicity, the ability to attract and retain water causes table salt to "cake." This is a common inconvenience in humid climates. When moisture disrupts halite's ionic bonds, both its positively charged sodium and negatively charged chlorine ions attract and hold dipolar water molecules. Because salt draws water from the cells of microorganisms, thus destroying their metabolism, it has served as a preservative for food and animal hides since prehistory. Without salted foods, long-distance maritime exploration and trade would have been more difficult.

Halite's hygroscopicity also accounts for the remarkable structural stability of underground salt mines. Rock salt (impure halite that occurs in large formations) consists of tiny, interlocked crystals. Because of its hygroscopicity, rock salt exposed in underground workings does not dehydrate,

contract, fracture, or slab off in the dangerous rockfall events that are common to most other types of mines.

Needing no costly ground-support systems, underground salt mines are huge in extent and sometimes exceed 100 feet in height. Some 30 underground salt mines around the world, mostly in Europe, are popular tourist attractions that accommodate museums, cathedrals, sports facilities, spas and amusement parks within their cavernous workings.



Intense blue and purple colors in halite occur when natural geophysical radiation disrupts the crystal lattice.

Today, underground halite mining provides most of the world's salt, with lesser amounts coming from the evaporation of seawater and brines. More than 375 million tons of salt are now being produced each year. That's nearly 100 pounds for every person on Earth. While halite is mined on an industrial scale, it is also a widely collected mineral.

Its unusual solubility, hygroscopicity and taste make salt a part of our everyday lives, whether it's on our dinner tables or winter highways.

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**GEM, MINERAL, JEWELRY,
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Calcites

JUNE 8 + 9, 2024





Sunday 11 - 5

Richland County Fairgrounds - Fairhaven Hall
750 North Home Road, Mansfield, OH
www.midohiomineralandfossilclub.com

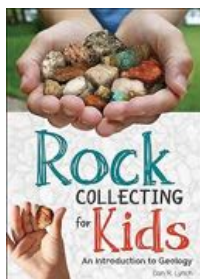


Ohio Rockhound

A useful website focusing on Ohio minerals, including collecting sites.

1. Mark J. Camp, [Roadside Geology of Ohio](#) (2006).
2. June Culp Zeitner, [Midwest Gem, Fossil, & Mineral Trails: Great Lakes States](#) (Rev. ed., June 1999 – first published in 1955).
3. June Culp Zeitner, [Midwest Gem Trails: Field Guide for the Gem Hunter, the Mineral Collector, and the Tourist](#) (3d. Rev. ed., 1964 – originally published in 1956).
4. James Martin Monaco & Jeannette Hathway Monaco, [Fee Mining & Mineral Adventures in the Eastern U.S.](#) (2d ed. 2010).
5. Kathy J. Rygle & Stephen F. Pedersen, [Northeast Treasure Hunter's Gem & Mineral Guide](#) (4th ed. 2008)

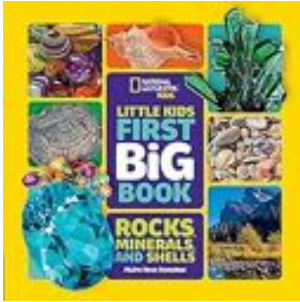
Geology Books



Rock Collecting for Kids

by [Dan R. Lynch](#) (Author)

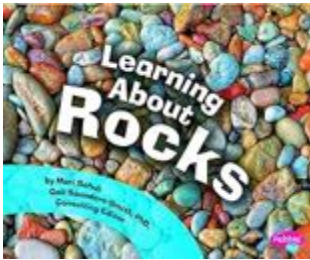
Rock collecting is simple and fun with this children's book that includes an introduction to geology, an identification guide to rocks and minerals, and a "how to" section.



National Geographic Little Kids First Big Book Rocks, Minerals, and Shells

by [Moira Rose Donohue](#) (Author)

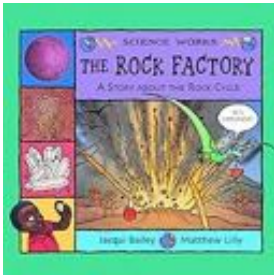
Get ready to be dazzled! This lively reference book for the younger set introduces a fascinating variety of Earth's rocks, minerals, gemstones, fossils, and shells--from granite to gold, marble to malachite, and conchs to clams.



Learning about Rocks (Science Builders)

by [Mari Schuh](#) (Author)

Mountains are made of it. Buildings can be too. Read more to find out the facts on rocks.



The Rock Factory: The Story About the Rock Cycle (Science Works)

by [Jacqui Bailey](#) and Matthew Lilly

Explains the formation of rocks and minerals, and includes information on volcanoes.



Let's Go Rock Collecting

by [Roma Gans](#) and Holly Keller

Readers follow two enthusiastic rock hounds around the globe as they add to their collection. Along the way they will learn how sedimentary, metamorphic, and igneous rocks are formed.





20 Most Dangerous Minerals in The World

409K views · 6 months ago

Uncovered Files

Top 20 Most Dangerous Minerals in The World. It may appear irrational, but rocks have the potential to be le...

Intro | GALENA | FLUORITE | TORBERNITE | HUTCHINSONITE | MERCURY... 9 chapters



\$25,000 Opalised Dinosaur Fossil Donated To Museum! | Opal Hunters: Red Dirt Road

48K views · 7 days ago

DMAX UK

On the last leg of their tour, JC and Rod make a stunning discovery of an opalised dinosaur fossil, an astronomically rare type of ...

Interesting Web Sites

1. Mineralogy4kids
 - a. <https://min4kids.org>
2. Minerals by Name
 - a. [http://www.galleries.com/Minerals By Name](http://www.galleries.com/Minerals_By_Name)
3. Ology - the science website for kids from the American Museum of Natural History
 - a. <https://www.amnh.org/explore/ology?channel=earth>
4. Fascinating Geology for Kids
 - a. <https://littlebinsforlittlehands.com/geology-for-kids/>
5. Geology for Elementary Schools
 - a. <https://study.com/academy/topic/geology-for-elementary-school.html>
6. Elementary School Science
 - a. <https://www.elementaryschoolscience.com/lesson-plan-intro-rocks-minerals>

2024 Rockhound Holidays

People often say there's a holiday for everything, and they're right. The good news is there are some fun holidays for rockhounds to enjoy and celebrate. Here's a handy list to jot on your calendar and enjoy through the year.

Old Rock Day – January 7

National Jewel Day – March 13

Geologists Day – April 7

Earth Day – April 22

Nickel Day – May 16

Dinosaur Days – May 15 & June 1

National Caves & Karst Day – June 6

World Oceans Day – June 8

International Drop a Rock Day – July 3

International Rock Day – July 13

National Pet Rock Day – September 1

Collect Rocks Day – September 16

National Fossil Day – October 16

Upcoming Events and Rock Shows – (Ohio and close to Ohio)

Check the Midwest Federation of Mineralogical + Geological Societies for Calendar Updates

APRIL

6-7 COLUMBUS, OHIO - Ohio Expo Center - Rhodes Building Columbus Rock and Mineral Show
717 E 17th Ave Columbus, OH Sat 10:00 - 6:00 and Sunday 11:00 - 5:00

19-21—DANVILLE, INDIANA: Annual show; Indianapolis Gem, Mineral And Jewelry Show; Hendricks County Fairgrounds, 1900 East Main Street; Fri. 10-6, Sat. 10-6, Sun. 11-4; 18 and older: \$8, 11-17: \$2, 10 and under: Free; Featuring the finest Gems, Minerals, Jewelry, Fossils, Meteorites and Beads from Around The World

20-21—TROY, OHIO: Annual show; Miami County Gem & Mineral Club; Miami County Fairgrounds, 650 N. Co Rd 25A; Sat. 10-6, Sun. 10-4; Adults \$3, free admission for children under 18

27-28—CUYAHOGA FALLS, OHIO: Show and sale; Akron Mineral Society & Summit Lapidary Club; Emidio & Sons Expo Center, 48 East Bath Road; Sat. 10-6, Sun. 10-5; Admission: Adults \$5, seniors (55+) & Students \$4, Children (7-14) \$1, scouts in uniform free; 38 quality vendors. Demonstrations, silent auction & children's activities. Mineral id throughout the day. Wheelchair accessible, food trucks both days and credit cards acceptable for admissions

MAY

3-5—KALAMAZOO, MICHIGAN: Annual show; Kalamazoo Geological and Mineral Society; Kalamazoo County Expo Center, 2900 Lake St; Fri. 4-8, Sat. 10-6, Sun. 10-5; Adults \$5 & Ages 12 & under free

4-5—SHARONVILLE, OHIO: Annual show; Cincinnati Mineral Society and the Cincinnati Dry Dredgers; Sharonville Convention Center, Geofair, 11355 Chester Road; Sat. 10-6, Sun. 11-5; Adults.....\$12 Two-day pass.....\$18 Children.....\$5 Uniformed Scouts free; GeoFair is Cincinnati's largest non-profit gem, mineral, fossil & jewelry show. This year GeoFair will highlight the theme: "Crystal & Fossil Treasures." Museum and collector enthusiasts displays; education, earth science lectures, identification service

18-19—NORTH OLMSTED, OHIO: Annual show; Parma Lapidary Club; North Olmsted Soccer Sportplex, 31515 Lorain Rd; Sat. 10-6, Sun. 10-5; \$6 adults, Children under 12 and scouts in uniform free when accompanied by an adult; 55th Annual Rock 'A Rama Jewelry, Gem, Crystal, Fossil & Mineral Show

May 31 + June 1 + 2 - WAUSEON, OH: County Fairgrounds, 8514 State Route 108 Wauseon, OH

JUNE

8-9 MANSFIELD, OHIO; Annual Show, Mid-Ohio Mineral and Fossil Club, Fairhaven Hall, County Fairgrounds,, 750. N. Home Road, Mansfield, OH Saturday 10 - 6, Sunday 11 - 5

21-23—BEDFORD, INDIANA: Annual show; Lawrence County Rock Club; Lawrence County Fairgrounds, 11265 US-50; Fri. 10:30-6:30, Sat. 9-6:30, Sun. 10-4; Free parking & Admission; 59th Annual Gem Mineral Fossil Show. Wide variety of Gems, Jewelry, Beads, Minerals, Fossils, Rocks, Lapidary Equipment & Supplies, Rockhound & Prospecting Supplies, 4-H Project & Science Project Material. A fun, interesting & educational experience for all ages

Our Club's Craft Program

We will send out information about craft classes as we get them planned and scheduled.

MIDWEST FEDERATION OF MINERALOGICAL & GEOLOGICAL SOCIETIES

New Website: <https://www.mwfed.org>

New Juniors Website: <https://www.mwfed.org/juniors>

FUTURE ROCKHOUNDS OF AMERICA

(American Federation of Mineralogical Societies)

Lora Hall, AFMS Youth Director

youth@amfed.org

Future Rockhounds of America (FRA) is a whole lot more than just the badge program! The new FRA website is packed FULL of lots of resources for activities with kids and teens in YOUR club - Any Midwest Federation Club. Features like **Rock Pals, the Junior Volunteer Award, Contests and rock-related activities for Kindergarten-12th grade kids** can make your club attractive to families and increase your membership. Check out the links below for ideas, and visit www.juniors.amfed.org/rock-mineral-activities for more!

[The Midwest Federation of Mineralogical + Geological Societies](https://www.mwfed.org)

You can check out all the Shows and Events in our Midwest Region (Ohio, Michigan, Indiana, Illinois, Wisconsin, Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska) at the Midwest Federation of Mineralogical + Geological Societies <https://www.mwfed.org>



[The U.S. Geological Survey Youth and Education in Science \(YES\) Team.](https://www.usgs.gov)

Revamped their web presence to better assist with online and home learning.

The new USGS learning from home portal for lesson plans and activities, grades K – 12.

www.usgs.gov

Students of all ages can always tap into the USGS Resources for Teachers for over 140 years of USGS research in the natural sciences in the form of lesson plans and activities, maps, podcasts, online lectures, videos and animations, and much more. Browse thousands of ideas for using these resources in elementary, secondary, university, and informal education settings

Meeting Minutes

January 2024

Lawrence Hull, our new president, opened the meeting. Minutes & Treasurer's reports from December 2023 were read.

Walt U said the shop is open & ready for use. Please call first to be sure door is unlocked.

Pam K, our Treasurer, advised any new CD's will need a letter of authorization from MOM&FC.

Jason - Historian, noted nothing new to report.

Mr Rostash said the new website for MOM&FC is up & running.

Jason gave the Hospitality update: February is in need of volunteers for refreshments. March & April are covered.

Carolyn K said tapes & videos are in the bottom drawer. Simply sign the card inside the tape or video & place in plastic bag. This is a lending library and may be used by any member.

Field Trips - Lawrence filled in and said there are currently no field trips planned.

Program:

January: Show & Tell. Members advised to bring in what they may have recieved for the holidays, or other times, that they would like to share.

February: Prof. James St. John, OSU Newark, will speak on famous fake fossils & how to tell the difference. Bring any fossils you are curious about.

Gay Abrams said there was an excellent show on PBS regarding Australian Opals. Worth checking out.

Lithnics - Bryan S will be listing upcoming shows in the next newsletter. This will be April's Lithnics.

Special Interests - Bryan S said nothing is planned at the moment. He is wanting to get a trip to Walt's shop to show folks what equipment we have to work with.

Tom K said there are 600+ varieties of Crystallized Calcite & he would like to see as many as possible at the show.

Rob L said the Kid's Zone may possibly have some art work done by inmates. More to follow.

Jim B said the Roanoke show also had a metal detecting class for kids in addition to digging in the sand box for treasurers.

Bob K said other clubs have a directory listing of members with their particular interest, etc. Dave G said he does have directories for other clubs.

Old Business - None.

New Business -

Tom K has 20 sheets listing various Sharks teeth, etc. if interested.

Jason L advised to please check with him or Pam K if you're not getting emails. If you do not have an email, please see Jason L.

Jason L said the GNC Rock & Fossil Day will be May 11th from 11-3. Anyone interested please let him know.

Door Prize: Gary Proietti won a Serpentine free form paperweight.

Meeting adjourned for refreshments & program on Personal Exhibits.

February 2024

Lawrence H opened the meeting. Minutes & Treasurer's reports were given.

Pam K reminded everyone that in paying your dues for the year you will need to fill out a 3 page form. This helps keep track of everyone.

Walt U said the shop is up & ready, just call before you want to use to be sure it is open.

History - Jason L said nothing new to report.

Hospitality - Joel L advised tonight's treats are brought to you by Dan & Pat Everly & Bryan Summer. March's treats will be provided by Jason L & friends.

Tapes & CD's - Mike K filling in for vacationing Carolyn remarked there are still tapes & CD's for viewing in the lending library.

Field Trips - nothing to report

Programs - Our program tonight will be presented by Prof. James St John of OSU/Newark campus and will be "Fake Fossils & How to tell the difference."

Joel & Debi Likins have returned from a trip to Antarctica and will be doing a program later in the year.

Lithics - Bryan S reported the next edition will be in April & anyone with any interesting tidbits please email to him.

Special Interests - Let Lawrence H know if anyone would like to volunteer to teach a class.

Show - Tom K said the show this year is on "Calcites". Tom took several museum quality specimens to Bryan S for photographing for the flyer.

Regarding the upcoming April 8th Solar Eclipse, the Richland County Fairgrounds will be having several activities & the MOM&FC will be hosting a kids zone which will be open 9am-4pm.

Old Business - None.

New Business - For those interested, there will be small bags of Lake Superior Agates for a tumbling contest next month.

Jason L said the GNC Rock & Fossil Day from 11-3 in May. Anyone interested in a table please let Jason know.

Personal Exhibits:

Erin D'oterre has some polished petrified wood.

Bryan Summer has some Turritella he has polished.

Pam K - wore her fossil pendant - an Ammolite from Canada

Mike Mc - 2 faceted Lead Crystal pieces that he did.

Sue B - Ammonite with Bismuth Crystal, also some Coprolite.

Joel L - Jewelry he purchased in Argentina, Fluorite & Blue Onyx.

Dave G - has some Fluorite

Door Prize: Bryan Summer won an Ammonite from France.

Meeting adjourned for Program given by Prof. James St. John, OSU/Newark, "Fake Fossils & How to Tell the Difference".

March 2024

Lawrence H opened the meeting and asked for any guests. Minutes & Treasurer's reports for February 2024 were read.

Walt U said the shop is doing fine. Please call first if wanting to use.

Jason L went over membership dues.

Lawrence L said there is insurance at dig sites. Tom K clarified we have insurance through MWF (Mid West Federation) that covers liability only should any of our members break something, ie: equipment that is not ours.

Hospitality - Joel L said tonights refreshments are brought to you by Robyn including Kittie's cobblers. April will be hosted by Suzie B & Nancy R. May is our annual potluck. June the Morrow's will be hosting.

Carolyn is absent tonight. Mike advised CD's & Videos are ready for lending and can be found in the bottom drawer of cabinet.

Field Trips - MSHAW compliance is required for any field trips to quarries. FOM (Friends of Mineralogy, Columbus) host several trips during the year. Membership to FOM is required.

Reggie, FOM member that leads most of the FOM field trips, is not doing well. Next month a card will be made to be sent to him.

Tom K said he will get hold of Scott Kell (FOM member qualified to instruct an MSHAW class) and see when he may be available to teach an MSHAW class to MOM&FC.

Programs:

Tonight: Joel & Debi Likins will do a video presentation of their Antarctica & Argentina trip.

April: will be a silent auction featuring unusual slabs.

May: Jay Medici will do a program on Nether's Flint.

June: Tom K will host a program on Mississippian Fossils.

Lithnics - Bryan S said the next Lithnics is forthcoming the beginning of April. Anyone wanting to submit any articles please send to Bryan.

Special Interests - Possible silver casting class towards the end of March on a Monday and/or Tuesday evening. March 18th at 6:30 has been submitted as a tentative date.

Show - Tom K said most of the dealers are returning.

Tom also said there are multiple pieces of equipment for sale that include:

4" Saw - \$100; 10" Saw - \$200; 3-Drum Tumbler - \$60; 8" Flat Lap Sander - \$85; 8" Grinding Wheel - \$475. Please see him if interested in any of the aforementioned items.

Jim B - regarding the June show, little bags of coins for the kids to find in the metal detecting class have been donated.

Old Business - Bryan S - regarding club directory.

New Business - Tom has flyers for the Columbus show in April & our show in June. Tom has also brought several 1-1/2# bags of Agates & Jasper for the tumbling competition to be held in June. Interested members need to choose a bag before leaving tonight. Mike McCullough said members need to choose 5-10 pieces they tumbled & bring to the June meeting. Judging will be done anonymously.

Jason L said the first local show is Stark County on March 23rd. Also, GNC Rock & Fossil Day is May 11th from 11-3. Let him know if you need a table.

Tom K brought in some of the late Cliff Rose's artifacts.

Personal Exhibits:

1. Kim has some Native American tools from Florida.
2. Dave G has some spheres cut from Obsidian.
3. Rob L has some sand from Antarctica.
4. Lawrence H also has some spheres cut from Obsidian. He went to Fantasia minerals who specialize in bulk stone.
5. Mick has Galaxy Jasper spheres from Arizona.

6. Mike K has 3 rocks he has polished.
7. Bob K went on a field trip to Jeromesville area & has arrowheads, etc.
8. Errin D has notes from Lowe Volk Park.

Door Prize winner: Jason L won a beautiful Rhodochrosite Cabochon from Argentina.

Meeting adjourned for refreshments and program on their recent trip to Antarctica & Argentina given by Joel & Debi Likins.

Don't Forget to Check Out our Website for Club Information:

<http://www.midohiomineralandfossilclub.com>



The Lithnics

If you have any club news, articles you would like share with members, updates on your committee, etc. please email info to:

Bryan Summer – bryansummer1@gmail.com

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