The LITHNICS

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July 2024

THE LITHNICS

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

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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

Hello to all of you Rockhounding, Mineral Collecting, Lapidary Crafters, and space people who enjoy beautiful stones from the planet we call Earth!!!

It's time for another one of these letters from the President! Just wanted to let EVERYONE that worked, helped, demonstrated, promoted, sold and bought at our annual show this year are the most Awesome Rockhounds this side of the Pacific ocean!!! We had a record breaking group of people and friends who came through the doors this year!!! I've got to brag a little!!! I get to visit a lot of shows around the country and see a lot of club show cases. Our club member cases are the best of all the display cases in the world!!! Another year of Amazing display cases!! Thank you for all the hard work it takes to put on a show of this much diversity!!! Thank you Tom K. for heading it all up again!! I'm hearing rumors that next year's show will have a lot to do with the Lapidary side of our club!! So start getting your grinders and polishers, tumbling, faceting, silversmithing, silver casting, etc. skills polished up so we can show this area of the world that we are going to knock the socks off the rocks and gems found on our amazing Earth!!

We've had a few club members out this Spring digging and collecting!! I love how we all bring our treasures to the meetings and display and talk about the adventures of how the trips unfolded!! Our July 1st meeting is going to be focused on stories from trips in the past to inspire everyone to get out there and find some beautiful new minerals and rocks that have maybe never been seen before!! Sometimes the people you travel with or meet up with makes the whole trip an Amazing story!

I'm hoping everyone stays safe out there traveling and exploring this summer! Remember to always fill in the holes you dig, carry out all the trash you see, and drink lots of water! Make a great impression with those who let us on their land and roads!! Best hobby out there! You'll probably make a lot of new friends too!!

That's all for now!! Lawrence

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, 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

Painted Desert: How it Got Its Colors

March 4, 2024

Story by Steve Voynick.

Artist Pamela Iris Harden used acrylics to capture this impression of the Painted Desert. Courtesy Fine Art America

The Painted Desert was once described by a geologist as a "sedimentary circus." The brilliant colors and bizarre patterns found throughout this 140-mile-long tract of badland topography in northeastern Arizona are somewhat reminiscent of colorful circus costumes.

Geologically, the Painted Desert is an expanse of heavily eroded, sedimentary formations with exposed, colorful strata of siltstone, mudstone, and shale interspersed with thin layers of limestone and volcanic material. Sparsely vegetated and arid, this region would have attracted little attention had it not been for its remarkable colors.

Visual artists have long been drawn to, and intrigued by, the Painted Desert's surreal colors and patterns. But while artists work from palettes with a wide array of oil, acrylic, and watercolor paints in every conceivable hue, the mineralogical palette that created the Painted Desert's natural colors has only a handful of minerals.

"Colorful and Strange Scenery"

When Spanish explorer Francisco Vázquez de Coronado ventured into the American Southwest in 1540, members of his scouting party became the first Europeans to see the Grand Canyon. To reach the canyon, they traversed an expanse of flat-topped mesas, sculpted buttes, and deeply eroded gullies. Awed by its kaleidoscopic colors, they named the region El Desierto Pintado—the Painted Desert.

In 1858, John Strong Newberry, a geologist with a U. S. Army exploratory expedition, made the first documented use of the English term "Painted Desert" when he described in detail the region's "colorful and strange scenery."

It was initially thought a different mineral caused each of the Painted Desert's colors—blacks, grays, and off-whites to reds, pinks, yellows, greens, blues, purples, and browns. By the late 1800s, geologists had learned that the myriad colors of these 210-million-year-old Triassic sediments were created by only a few minerals.

Reds, Yellows, and Brown

A close-up look at the colors and forms that typify the Painted Desert.
Courtesy Wikimedia Commons

The Painted Desert's dominant color is red. Regardless of whether a particular reddish stratum is a delicate pink or a deep, rich burgundy, its color is due to particulate hematite or iron oxide—the same mineral that colors the red rocks of Utah and the red clay of Georgia. The broad range of reddish hues reflects varying concentrations of hematite combined with several other complementary mineral pigments.

Iron, in the form of goethite, or basic iron oxide, produces the Painted Desert's yellows and browns. Iron deposited in oxidizing environments above the water table formed as hematite; below the water table, it formed as goethite and other hydrated iron oxides.

The Whites

Particularly eye-catching are strata where intensely colored, red layers of mudstone make sharp contact with strata of bright, white mudstone. Initially, many Painted Desert white strata were red, due to hematite coatings on quartz sand grains. But with wide variations in permeability, some strata trapped groundwater which sometimes became acidic, triggering a bleaching process that dissolved the hematite coatings to leave behind pure quartz grains that transformed the mudstone from red to white.

Some of the Painted Desert's white coloration is due to concentrations of white or colorless gypsum, a hydrous calcium sulfate. Other white coloration is due to concentrations of bentonite, a white, montmorillonite clay that forms through alteration of volcanic-ash layers. Because it expands when wet, then contracts as it dries, bentonite contributes to severe soil instability, explaining both the Painted Desert's vulnerability to rapid erosion and its sparse vegetation.

A dark basalt outcrop stands alone amid the "sedimentary circus" of the Painted Desert.
Courtesy Wikimedia Commons

Greens, Purples, and Black

Green strata often indicate concentrations of glauconite, the term for a subgroup of mica minerals. Glauconite forms from slow, sedimentary deposition in shallow, marine environments that are favorable for chemical reduction. Translucent to opaque, glauconite minerals occur as sand grains with colors ranging from yellowish-green to bluish-green. Concentrations form compact, clay-like layers with saturated, greenish colors.

Purple, lavender, and blue coloration is usually due to concentrations of pyrolusite and other closely related manganese oxides. Some black or dark strata are concentrations of organic matter that has been chemically reduced to particles of elemental carbon. Geologically recent volcanic flows have occasionally emplaced thin layers of igneous rocks, usually dark basalt, that strikingly accent the lighter colors of adjacent sedimentary strata.

Combinations of color-causing minerals along with varying degrees of chemical bleaching produce a continuous spectral gradient. An example is strata containing both hematite and pyrolusite can be a rich mahogany brown, while partially bleached, hematite-rich strata are a delicate pink.

A modern Navajo sand painting; the original media for these paintings in the late 1800s were likely colored sands obtained from selected strata of the Painted Desert. Courtesy Steve Voynick

Sand Paintings and Petrified Wood

The ready availability of the Painted Desert's varicolored sands may have partly inspired the art of Navajo sand painting. Sand paintings, also called "dry paintings," are symbolic representations of Navajo mythology that are used in sacred healing ceremonies. They consist of colored sands skillfully placed to form designs. More than a century ago, the first media for these paintings were likely colored sands derived from selected strata of the Painted Desert.

The most accessible section of the Painted Desert sprawls across the northern part of Petrified Forest National Park along Interstate 40 east of Holbrook, Arizona. The visitor center displays large, polished slabs of petrified wood; the bright multi-coloration of these slabs closely matches that of the Painted Desert itself, justifying their description as "the Painted Desert in stone."

It is interesting to consider that, while artists draw upon a complex palette of paints of every hue to capture the Painted Desert's splendor, nature created this "sedimentary circus" using a palette of only a handful of minerals.

Most Pristine Trilobite Fossils Ever Found Shake Up Scientific Understanding of the Long Extinct Group

by University of Bristol
June 27, 2024

Microtomographic reconstruction of the head and anterior trunk ("body") limbs of the trilobite Protolenus (Hupeolenus) in ventral view. Credit: Arnaud Mazurier, IC2MP, Univ. Poitiers

Researchers have described some of the best-preserved three-dimensional trilobite fossils ever discovered. The fossils, which are more than 500 million years old, were collected in the High Atlas of Morocco and are being referred to by scientists as "Pompeii" trilobites due to their remarkable preservation in ash.

The paper, "Rapid volcanic ash entombment reveals the 3D anatomy of Cambrian trilobites," was published in the journal, *Science*.

The trilobites, from the Cambrian period, have been the subject of research by an international team of scientists, led by Prof Abderrazak El Albani, a geologist based at University of Poitiers and originally from Morocco. The team included Dr. Greg Edgecombe, a paleontologist at the Natural History Museum.

Dr. Greg Edgecombe said, "I've been studying trilobites for nearly 40 years, but I never felt like I was looking at live animals as much as I have with these ones. I've seen a lot of soft anatomy of trilobites, but it's the 3D preservation here that is truly astounding.

"An unexpected outcome of our work is discovering that volcanic ash in shallow marine settings could be a bonanza for exceptional fossil preservation."

Due to their hard, calcified exoskeleton often being well-preserved in the fossil record, trilobites are some of the best studied fossil marine animals. Over 20,000 species have been described by paleontologists over the past two centuries.

However, until now, comprehensive scientific understanding of this phenomenally diverse group has been limited by the relative scarcity of soft tissue preservation. Owing to the fact the Moroccan trilobites were encased in hot ash in sea water, their bodies fossilized very quickly as the ash transformed to rock—meeting a similar end to the inhabitants of Pompeii following the eruption of Mount Vesuvius.

Prehistoric Pompeii Discovered - You Tube

Artistic reconstruction of two species of trilobite an instant before burial in a flow of volcanic ash 510 million years ago. Credit: Prof. A. El Albani, Univ. Poitiers.

The ash molds preserved each segment of their bodies, their legs and even the hair-like structures that ran along the appendages. The trilobites' digestive tract was also preserved after it filled with ash. Even small "lamp shells" attached to the trilobites' exoskeleton remained attached by fleshy stalks as they were in life.

Lead author, Prof Abderrazak El Albani, says, "As a scientist who has worked on fossils from different ages and locations, discovering fossils in such a remarkable state of preservation within a volcanic setting was a profoundly exhilarating experience for me.

"I think pyroclastic deposits should become new targets for study, given their exceptional potential for trapping and preserving biological remains, including delicate soft tissues.

"These findings are anticipated to lead to significant discoveries about the evolution of life on our planet Earth."

Using CT scanning and computer modeling of virtual X-ray slices, the researchers discovered that appendages found at the edge of the mouth had curved spoon-like bases but were so small they had gone undetected in less perfectly preserved fossils.

In fact, it had previously been thought that trilobites had three pairs of head appendages behind their long antennae but both Moroccan species in this study showed that there were four pairs.

A fleshy lobe covering the mouth, called a labrum, was documented for the first time in trilobites.

Co-author Harry Berks, from the University of Bristol, added, "The results revealed in exquisite detail a clustering of specialized leg pairs around the mouth, giving us a clearer picture of how trilobites fed. The head and body appendages were found to have an inward-facing battery of dense spines, like those of today's horseshoe crabs."

Collecting Rocks

I think that there will never be
An ignoramus just like me,
Who roams the hills throughout the day
To pick up rocks that do not pay;
For there's one thing I've been told
I take the rocks and leave the gold.

O'er deserts wild and mountains blue
I search for rocks of varied hue.
A hundred pounds or more I pack
With blistered feet and aching back,
And after this is said and done
I cannot name a single one.

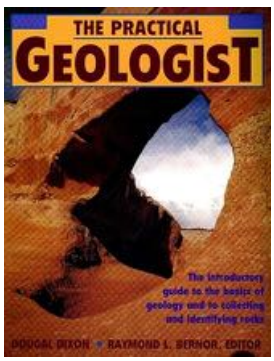
I pick up rocks where ere I go,
The reason why I do not know,
For rocks are found by folks like me
Where God intended them to be.

Ohio Rockhound

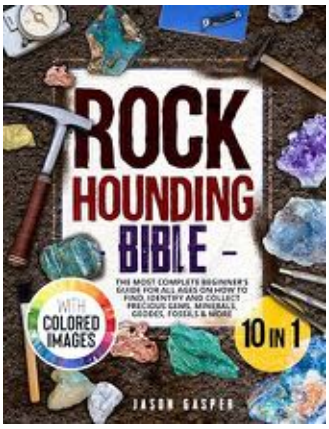
A useful website focusing on Ohio minerals, including collecting sites.

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)

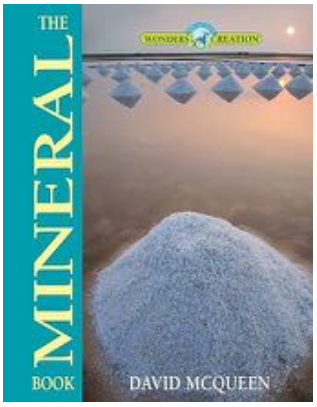
Geology Books



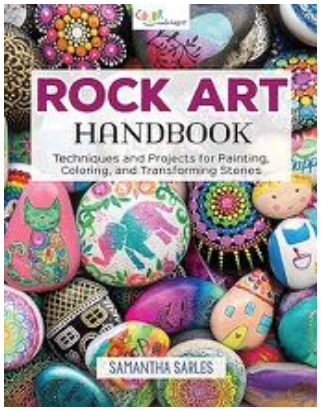
The Practical Geologist: The Introductory Guide to the Basics of Geology and to Collecting and Identifying Rocks
by Dougal Dixon | Aug 15, 1992



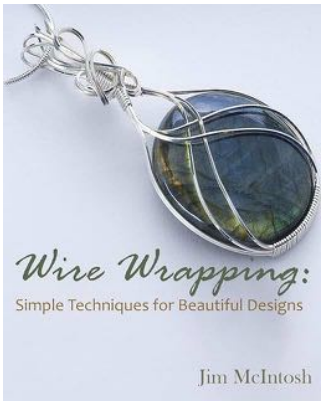
Rockhounding Bible: 10 In 1: The Most Complete Beginner's Guide For All Ages On How To Find, Identify And Collect Precious Gems, Minerals, Geodes, Fossils & More. FULL-COLOR EDITION
by Jason Gasper | Sep 27, 2022



The Mineral Book (Wonders of Creation)
by David McQueen | Dec 14, 2014



Rock Art Handbook: Techniques and Projects for Painting, Coloring, and Transforming Stones (Fox Chapel Publishing) Over 30 Step-by-Step Tutorials using Paints, Chalk, Art Pens, Glitter Glue & More
by Samantha Sarles | Aug 13, 2018



Wire Wrapping: Simple Techniques for Beautiful Designs
by Jim McIntosh

YouTube

Cuyahoga Valley National Park | 7 Advanced Tips for Your First Visit!

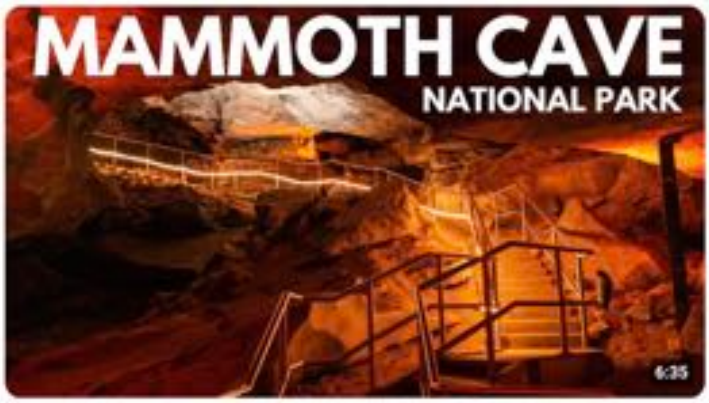
281 views • 2 weeks ago

CampBrood

Are you looking for the best tips when visiting Cuyahoga Valley National Park? Come with us on ...

CC

10 chapters 7 Tips for Cuyahoga Valley National Park | What is the most...



Mammoth Cave National Park in Kentucky: Taking the Historic Tour

168K views • 2 years ago

Through My Lens

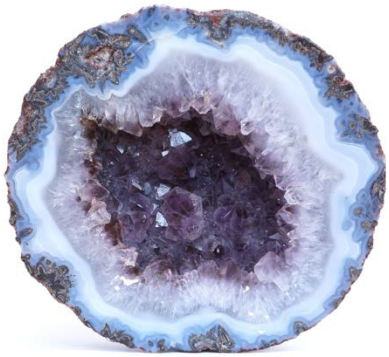
Mammoth Cave National Park is home to the world's longest cave system at over 40

4K

9 chapters Intro | Opening | rotunda | Broadway | Giants Coffin | Pits | Fa

Geodes Song

by Carrie Newcomer



No you can't always tell one from another
And it's best not to judge a book by it's tattered cover
I have found when I tried or looked deeper inside
What appears unadorned might be wondrously formed
You can't always tell but sometimes you just know

'Round here we throw geodes in our gardens
They're as common as the rain or corn silk in July
Unpretentious browns and grays the stain of Indiana clay
They're what's left of shallow seas glacial rock and mystery
And inside their shines a secret bright as promise

All these things that we call familiar
Are just miracles clothed in the commonplace
And you'll see it if you try in the next stranger's eyes
God walks around in muddy boots sometimes rags and that's the truth
You can't always tell, but sometimes you just know

Some say geodes were made from pockets of tears
Trapped away in small places for years upon years
Pressed down and transformed, 'til the true self was born
And the whole world moved on like the last notes of a song
A love letter sent without return address

No you can't always tell one from another
And it's best not to judge a book by it's tattered cover
I don't open them to see folks 'round here just like me
We have come to believe there's hidden good in common things
You can't always tell but sometimes you just know
You can't always tell but sometimes you just know

Interesting Web Sites

1. Mineralogy4kids
    a. https://min4kids.org
2. Minerals by Name
    a. 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.

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

July

No Close Area Events

August

Aug 16 - 18 Michiana Gem and Mineral Society St. Joseph County Fairgrounds
5117 S Ironwood Road, **Southbend, IN**
Fri + Sat 10 - 7, Sun 10 - 5

September

Sept. 6-8 Toledo Gem & Rockhound Club Pratt Pavilion, County Fairgrounds,
13800 W. Poe Road, **Bowling Green, OH**
Fri + Sat 10-6, Sun 10-4

Sept. 13-15 Tulip City Gem & Mineral Club Soccer Stop Sportsplex,
5 River Hills CJ Poos, Club Drive, **Holland, MI**
Fri & Sat 10-7 Sun 11-5,

Sept. 21-22 Livingston Gem & Mineral Society Hartland Education Support,
9525 Lori Irvin, E. Highland Road, **Howell, MI**
Sat 10-6, Sun 10-4

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

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

USGS science for a changing world

The U.S. Geological Survey Youth and Education in Science (YES) Team.

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

April 2024

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

Shop - Walt U advised it's open for use just call ahead to be sure door is unlocked.

Membership & Historian - Jason L advised everyone to be sure they are receiving the emails. Nothing new for the historian side.

Hospitality - Joel advised we are good thru June. To sign up to host a month please let him know. It was also noted that our annual Potluck will be held at our May meeting and hosts will not be necessary. Please note the meeting starts at 6:30 next month.

DVD's & Tapes - Carolyn K advised are ready for anyone to use via our lending library.

Field Trips - Nothing new within our immediate group. Those wanting more field trips need to check with FOM - Friends Of Minerology in Columbus. They do a lot of field trips each year.

Jim B noted his wife, Patti, made a card for Reggie - FOM field trip coordinator - as he is has been ill, and anyone is welcome to sign the card.

Programs - we are good until after our June show. May - Jay M will speak on Nethers farm by Flint Ridge & his faceting. June - Tom K will speak on Fluorescence in Minerals.

Lithnics - Bryan S advised they are done for the 1st quarter 2024 & will be out this week.

Special Interests - Bryan S said there is a possibility of a future Opal class. More information will be forthcoming. Lawrence did say there will be a silver smithing class at his home on April 15 for those interested members.

Old Business - None.

New Business - None.

Rock & Fossil Day will be held May 11th at Gorman Nature center from 11:00am - 3:00pm. Anyone interested in a table please see Jason Larson.

Tom K - Has the following:

1. Sign-up sheets in the back for various duties during the show.
2. There are all flyers in the back for distribution.
3. The new add for the June show is now online.
4. MSHAW - Tom saw Scott Kell, who has done classes in the past, is no longer needed. However, those going on future field trips need to listen to the person detailing where to go in the quarry

Upcoming Shows:

1. The Gemboree will be April 27th & 28th at 480 E Bath Rd, Bath, OH
2. Columbus show is April 6th & 7th.
3. The Kentucky show is April 27th & 28th in the Irving, Kentucky school. It is also the same weekend as the Mountain Mushroom Festival.

Personal Exhibits:

1. Dave G has a casting he found.
2. Pat E brought some Crazy Lace Agate slabs she recently cut.
3. Mark & Kristin have some wrapped Quartz crystals.
4. Carolyn K brought some Operculum Turban Snail Shells and some Yooperlites from Yunnan Province, China.
5. Tom K - has bags of Fluorescent Sand from Sterling Hills, NJ that has tiny Ruby & Kraisslite.
6. Jason L - Lots for Fluorite from a recent show he attended.

Door Prize: Mark Morrow won a Parrot Wing Jasper from Mexico.

Meeting Adjourned for refreshments & Silent Auction.

May 2024

Lawrence opened meeting & welcomed guests. Minutes & Treasurer's reports were read.

Updates on various committees were given.

Tom K updated info on the show & the number of vendors we have. Still need members to sign up to work the show in various capacities. Kids Zone will be active & could especially use some support. Set-up for show will be June 6th. June 7th members can set-up their display cases and the vendors will be arriving. June 8th & 9th is the show with tear down commencing right after the show ends on June 9th. Anyone able to help is appreciated.

Gorman Nature Center Rock & Fossil Day is May 11th from 11:00-3:00. Can set up anytime after 9am.

The show is on Facebook & YouTube and is sharable.

Personal

1. Jason L said there will be renovation happening as the Levy passed and updates to several items will be underway soon.
2. Stan E has some Druzy Quartz from Missouri
3. Dave G piece of Copper.
4. Roger had a piece of Carbon.

Door Prize: Mick P won a nice piece of Apatite.

Meeting adjourned for the annual potluck with grace given by Joel L.

June 2024

Lawrence opened the meeting welcoming our guests. Minutes and Treasurer's reports for May were read.

Lawrence also advised those participating in the rock tumbling contest to take their samples to the next room for judging.

Update were given on the following committees:
Shop, Historian, Special Interests, Field Trips, CD & DVD lending, Hospitality, Programs.

Tom went over last minute plans for our June 8th & 9th show. Some volunteers are still needed for 1-1/2 hrs shifts. For those volunteering, admission to the show is free. Updates were given regarding Vendors and food for Friday - thank you Joyce Kish :) Set-up will be Thursday, June 6th beginning at 3pm. Friday will be our case set-up and Vendors arriving. Saturday & Sunday will be the show. Hours are 10-6 Saturday & 11-5 Sunday. Tear down will be immediately after the show ends on Sunday.

Joyce Kish has the meals ready for Friday, June 7th: Pulled pork, Macaroni and Cheese, coleslaw. Deserts are welcome.

Robin - is needing a couple more questions for the kids scavenger hunt during Sunday's lecture by Mr Calcite.

Old Business - 0
New Business - 0

Program tonight: Tom Kottyan will speak on Mississippian Fossils.

Personal Exhibits:
1. Nancy R - Australian stone & fossils from N W, plus, wire wrapping she has done.
2. Bob Krieling - Indian Artifacts
3. Gay A - has some Opals he has cut & mounted.

Tom Kottyan noted the Dig Fossils from Wyoming is a good place to go.

Door Prize: Cindy Eusey won a nice Druzy Quartz.

Results of the rock tumbling contest:
1st place - Mike McCullough won a $50 gift certificate
2nd place - Bryan Summer won a $25 gift certificate
3rd place - Mark Morrow
Thank you to all who participated!!

Meeting adjourned for refreshments provided by Kristen & Mark Morrow & Walt Upchurch. Program followed given by Tom Kottyan.

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:

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