

THE ROCKFINDER

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*Larry Hess, Editor
Michiana Gem & Mineral Society
15358 Kerlin Drive
Granger, IN 46530*



MICHIANA GEM and MINERAL SOCIETY

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The Michiana Gem & Mineral Society, a non-profit organization, is affiliated with the Midwest Federation of Mineralogical and Geological Societies and with the American Federation of Mineralogical Societies.

Regular Meetings

Time:	2:00 PM EST	Place:	Wesminster Presbyterian Church
	4th Sunday of each month		1501 W Cleveland Road
	June - Field Trip Meeting		South Bend IN
	July - No meeting		just west of the St Joseph River
	August - Annual Club Picnic		
	December - Christmas Party		
	(date to be announced)		

DUES

Individual	\$ 6.50 per year
Family	\$ 10.00 per year
Junior	\$ 2.00 per year

ROCKFINDER STAFF

Editor	Larry Hess	15358 Kerlin Dr, Granger IN 46530
Co-Editor	Margaret Heinek	7091 E East Park Ln, New Carlisle IN 46552
Staff	Bob Heinek / Club Members	

All contributions for publication should be in the hands of the Editor by the 10th of each month. (219 272-5431)

Permission is hereby granted to reprint, at any time, items published in the ROCKFINDER provided due recognition is given.

THE ROCKFINDER

Volume 33
Number 6

October 1993

Published by:
Michiana Gem & Mineral Society

Meeting: October 24, 1993
Doors Open 1:30 PM
Meeting at 2:00 PM

Place: Westminster Presbyterian Church
1301 E Cleveland Road

October Program:

"Magic in the Rocks" Video Program
from the Midwest Federation Library
Part One of the "Lost Worlds" series

October Birthstone - OPAL

Opal, a variety of quartz, displays a rainbow of colors. It was used as a gemstone as early as 400 B.C. Mines in Australia produce about 90% of the world's supply of opal. All opals are porous and hold water making some sensitive to high temperatures.

Hosts:

Meg Auth
Marie Crull
Molly Elwell

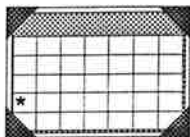
Happy Birthday & Anniversaries



- | | |
|-----------------------|----------------------------|
| 1 Nina Hassler | 19 Delton & Tess Miller |
| 3 Jerry Gobel | 26 Louis Jordan |
| 11 Bob Heinek Jr | 26 Marian Fiege |
| 11 Bob & Kathy Miller | 27 Lorraine & Louis Jordan |
| 16 Judy Heinek | |
| 19 Tess Miller | |
| 28 Irene Ungurait | |



Calendar of Events:



- | | |
|--|--|
| <p>Oct. 23 Fossil Festival
Indiana State Museum
Indianapolis IN
(219) 232-3512</p> | <p>Nov 12-14 Micromineral Soc. Symposium
Cleveland Museum of Nat. History
Cleveland Ohio</p> |
| <p>Oct. 29-31 Central MI. Lapidary & Min Soc.
"Nature's Sparklers" Show
Marshall St Armory, Lansing MI</p> | <p>Nov 26-28 Geodon Gems - Christmas Show
DuPage County Fairgrounds
2015 W Manchester Rd, Wheaton IL</p> |
| <p>Oct. 29-31 Midwest Faceters Guild
1993 Midwest Faceters Fair
Dearborn Civic Center, MI
(313) 465-3622</p> | <p>June 25-26, 1994 MGAG Rockhound Seminar
Southwestern Michigan College
Niles Michigan
(313) 664-8985</p> |



**Margaret's
Column**

Sorry about missing the meeting last month. I would like to thank Larry for taking over and conducting the meeting. Many things happened to make it an unusual time. I had to be out of town, Sister Jeanne was ill, and worse of all, the program that Larry had lined up, canceled the night before. But I hear it went well anyway.

I called the bus company to see if we were able to get a bus lined up for the trip to Indianapolis for the fossil show. But every Saturday is booked for all the busses because of the trips to Brown County; Chicago for Christmas shopping; etc. until late in December. She said they were over booked!

So we will have to plan on either a Sunday trip or wait until spring. I will call the museums in Chicago to see if there is any special program going on that would be suitable for both the adults and the juniors. We could go there, and if we feel we have time, the Lizzadro Museum, and/or Geodon's show in Wheaton.

We are going to have a contest! How about selecting a theme name for the MWF 1994 convention? Then when we select the winner, we will order pins to correspond with the theme. So get busy and bring your thoughts to the October meeting. There will be judges to pick the winner! Then we will start getting our fliers out to other clubs and will be ready to send our packets out sometime after the first of the year.

And we need some chairman for committees. We need someone to contact clubs and individuals to get exhibits from them. So please come forward and tell me you will be willing to do this job. Bob Miller will, as chairman for the MWF, will take care of competitive exhibits.

A special exhibits chairman is needed. They would contact museums to ask for special items or complete exhibits. Chuck Collins has contacted the Smithsonian Museum to see if we are able to get an exhibit. The Lizaddro Museum usually sends something, but contact has to be made with them, through Russ Kemp.

We need someone to chair the Kiddies Korner. We have the new games and if the person who takes on the job, is willing, we can have the sand box back.

We need help making the table favors, Gladys Pacholke said she would chair this committee. But she will need a lot of help from many of us.

Kathy Miller will take care of the door arrangements. She will certainly need help. Marie Crull will be in charge of the packets for the people coming to the show and making advanced arrangements for meals and as delegates.

Marie and I have taken care of the planning of the meals. I am the go-between with the Century Center for the rooms for the show and convention meetings and renting the tables. Bob Heinek, will take the responsibility of making the fliers, when a theme for the show is picked.

Clarence Orrell is chairman for the demonstrations. Chuck Collins has agreed to chair the dealer selection, with the help of Bill Crull, who has been such an excellent chairman for several years.

Now, all chairman will need workers, and that is where you all come in. WE NEED HELP! September is not that far away. Lets make this the best convention we have ever hosted. We have an ideal location, a very good facility and as you know, we have excellent dealers.

Pam Rubenstein will head the hostess committee. The hostesses will greet the people at the door and the meals. Ladies as well as the men would be good at that.

Margaret

**Michiana Gem & Mineral Society
Membership Roster Update.**
(New members, renewals, roster errors, address changes, etc.)

James & Shirley Toney
7226 E Condry Dr
Nineveh IN 46164

Janus & Dennis Horrall
16733 Jackson Rd
South Bend IN 46614

Lynn Patrick
6910 N Gumwood Rd
Granger IN 46530
232-0337



SECRETARY'S REPORT

MINUTES OF THE SEPTEMBER 1993 MICHIANA GEM & MINERAL SOCIETY

Vice President Hess opened our regular meeting, as Margaret Heinek was out of town. Guests Ben Sassoon and Ina Kahal were introduced. The May minutes were accepted as printed in The Rockfinder. There was no treasurer's report as Sr. Jeanne was not present. Bob Heinek read the 1993 show report.

Committee Reports

Program - Today's program on beads was postponed due to illness in the presenter's family. In its place, there will be a slide show on fluorescence.

Education - Gordon Dobecki's classes will begin again in October. Call him if you're interested. 109 Petosky stones were polished at this year's show; Gordon will need more Petoskies for next year's show. Paul Godelli's fossil classes continue to meet on Saturdays at 10:00 at his home. Call him for further information, or just join the group!

Displays - Paul Godelli brought fossils from his trip this summer to Canada. Larry and Brian Hess brought in copper from the MWF trip to Upper Michigan. Alec and Pam Rubenstein brought in amethyst from Thunder Bay, Ontario, where they went after the MWF trip. Alec also brought his junior project so the club members could see how it is progressing.

Sunshine - Bob Miller's toe had an accident with a lawn mower. After surgery and some aches and pains, we're sure he'll be fine. We're thinking about you, Bob!

Library - Paul showed us a new book he bought for our library at the September show.

Liaison - Paul received information from the Indiana State Museum about its annual fossil festival Oct. 23, 1993.

Hospitality - The Jordan family and Viola Robinson are today's hosts.

Old Business

We received a thank you from Century Center for having our show there.

The Old Country Buffet has cancelled our Christmas reservation. It was moved, recorded, and passed that we have our usual potluck party at the church. This year's party will be Dec. 5.

New Business

Chuck Collins will be the show chairman next year. The space at Century Center

will be doubled because the show will also be the 1994 MWF show. Chuck is trying to get a Smithsonian exhibit to help draw a larger attendance. If you have any suggestions at increasing attendance, please let Chuck know. Several suggestions were brought up at the meeting, including a radio station ticket give-away, a live radio broadcast from the show, etc. Let's all put our thinking caps on to make next year's MWF show the best ever!

Two possible bus trips were discussed: one to the Field and Lizzadro Museums and another to the Indiana State Museum for the fossil festival in October. More people were interested in the Indiana State Museum, so a sign-up sheet was passed around. Margaret will look into renting a bus. If you're interested in the trip (Oct. 23) but did not sign up at the meeting, please call Margaret.

23 members, 2 guests, and 6 junior members were present. Door prizes were awarded to Alec Rubenstein, Elizabeth Jordan, Louis Jordan, Tom Corson-Knowles, Dan Corson-Knowles, Ben Sassoon, Lorraine Jordan, Paul Godelli, and Gladys Pacholke.

Respectfully submitted,

Pam Rubenstein

* * FOSSIL CLASSES * *

The first fossil class of this season was held at the home of Paul Godollei, the instructor, at 10 am on Saturday, October 9th at 10am. The subject was trilobites. A discussion of their formation, evolution, habitat, development and decline was held, and examples of different species were passed around for examination. The different parts of the trilobite body were identified, with pieces held up for identification. Localities for collecting trilobites were also mentioned and books and articles about trilobites were examined. The next fossil class will be held on November 6th with Cephalopods and Ammonites as the subject matter. Future lessons will cover Plant fossils, Gastropods, Bryozoas and Vertebrates.

A fee of \$3.00 will be charged for 6 lessons, which will be held about twice a month. New students may join by calling Paul at 272-9705 or by signing up at the next Michiana Gem & Mineral Society meeting.



Editor's Notes

The month of September was hectic due to a number of work related trips. During the trips I did have enough free time to visit some nice gem and mineral related spots.

First was the Lizzadro Museum of Lapidary Art in Elmhurst (Chicago). There is a small admission charge but it's well worth it, this is an excellent museum. Recently a gift shop was opened on the lower level. In addition to gemstones there are a number of texts on minerals and back issues of the Lizzadro Museum Bulletin, published in February and August.

Second, if you visit San Antonio Texas, stop at Texas Lapidaries. An exceptional gem and mineral shop where I'm sure you'll find something you like.

We also made a quick trip to the Eddy Geological Center for the annual Geology Arts Fair. Thanks to all the wonderful people who make that possible. The weather turned out great too!

My sincere thanks to all you who have recently contributed material to the Rockfinder. We can always use more material so keep it coming. You may notice we are missing a Member Profile this month. I'm hoping someone comes up with one for us for November, please!

In the months ahead we have many new items planned for the Rockfinder including Paul Godollei's, "Using the Computer to Catalog your Collection." Please call me with your comments or suggestions on the Rockfinder.

According to the records of our club librarian, we have quite a few overdue library books. Please check your shelves and return any you might have so others may use them.

Recently I received a book and video list from Robert L. Fox of Oshkosh Wisconsin. He specializes in material on mining. Anyone interested in this list please call me for a copy. Hope to see you at the meeting,

More Humorous Gems from -

Jim Toney's Glossary of Rockhound Terms

PSEUDOMORPH - Anything that pretends to be a morph.

BOULE - A dish for holding fruit on the table.

GEODE - A poem to G.

INCLUSION - Unwanted third person on a date.

PETRIFIED WOOD - Wood that's been frightened.

JUNIORS' PROJECT UPDATE

We thank Tom Noe for donating fossil turtle shells that he collected this summer in Nebraska, Gordon Dobecki for materials from Hawaii and Idaho, and Marilyn Meier for specimens from South Carolina.

With some persistence and phoning, I have obtained materials from all but one of the remaining states. If you have material from Delaware, or know of someone who might, please let me know.

I'd like the junior members to bring their completed projects (except maybe for Delaware) in to display at the Christmas party December 5.

Pam Rubenstein

excerpts by Larry Hess from:

**THE CALEDONIA
NATIVE COPPER MINE, MICHIGAN**
by Theodore J. Bornhorst
& Richard C. Whiteman

INTRODUCTION

The Caledonia Mine is southwest of Mass, Michigan, within an area of native copper outside of the major deposits of the Keweenaw Peninsula. The mines in this area extend into the Evergreen Series of mineralized lava flow tops. Since its beginning the Caledonia Mine itself has produced more than three million kilograms of copper.

HISTORY

The Caledonia Mining Company commenced operations in 1863 after taking over lands of the Nebraska Company. The workings consisted of two shafts about 100 feet deep and a 300 foot long adit driven west into the Caledonia bluff. In 1873 the mine was leased to Captain Martin, who from 1873 to 1881 removed more than 150,000 kilograms of copper including a single mass weighing 36,000 kg.

The Caledonia Mine was dormant until 1937 when Calumet and Hecla Consolidated Copper Company began a program of diamond drilling. The yield results were poor and the project stopped because of World War II. The mine opened from 1951 to 1958 when Calumet and Hecla removed 2.5 million KG of copper.

Red Metal Explorations acquired the mineral rights in 1985 and the mine was reopened for exploration. The copper removed is prepared and sold as specimens on a wholesale basis. The largest single piece removed to date weighed 1360 Kg. Other specimens removed by Red Metal Explorations include native silver, datolite, calcite, epidote and adularia crystals.

DESCRIPTION

The Caledonia Mine has yielded about 3,100,000 Kg of refined copper. The copper, which is around a 1.5% grade, is present in lava flow tops that range from 15 to 90 meters in thickness. Abundant minerals in spaces between rock fragments include quartz, feldspar, pumpellyite, chlorite, calcite and epidote. Less abundant are prehnite, datolite and laumontite. Over many years of mining the Caledonia has expanded and now connects with stopes of the Knowlton and Old Mass Mines.

REFERENCES

Broderick, T.M., 1931, Fissure vein and lode relations in Michigan copper deposits: Econ. Geol., v. 26, p. 840-856.

Butler, B.S. and Burbank, W.S., 1929, The Copper Deposits of Michigan: U.S. Geol. Survey Prof. Paper 144, p 238.

Calumet and Hecla, 1958, Unpublished report for Defense Minerals Exploration Administration, 29p.

Weege, R.J. and Pollack, J.O., 1971, Recent developments in native copper district of Michigan: Soc. of Economic Geologists Field Conference, Michigan Copper District, September 30 - October 2, 1971, p. 18-43.

-- With permission of the author.

NEW ENTRANCE TO CRANBROOK

After Jun 14th the Lone Pine entrance will be closed. Visitors are asked to use the NEW entrance off 1221 North Woodward, 1½ miles north of Big Beaver (16 Mile). About ¼ mile south of Long Lake. The Cranbrook sign is set back a bit from Woodward, so watch for it.

A Summer Trip to South Dakota

by Tom Noe, club member

A while back I became interested in Fairburn agates, named for Fairburn, South Dakota, on the east side of the Black Hills. With the summer looming before me, I decided I could spend about 10 days on vacation in the area, looking for the elusive agates.

There are several options. The National Forest service sells maps which locate features such as agate beds. These are compact areas where the ground is nearly covered with varieties of agates. Of course, these beds are popular areas for hunting and have been gone over by people for years. Pickings are pretty slim now, especially for the rarer stones.

You can also just set off across the prairie, stopping here and there and scrambling around, sniffing under the sagebrush, looking for hilltops which have had the sand blown off, leaving agates exposed. The area is waterless badlands, so I was careful to take along everything I needed whenever I set out across the prairie.

I picked May, since the temperatures were moderate, and spent some time at most of the locations on the Forest Service map listed as agate beds. I found lots of banded agates, most of which are called "prairie agates" out there, and plenty of colorful patterned agates to play with this winter. I also found three Fairburns, all on the small side. They went into my collection.

At the Fairburn beds, I met a fellow from Custer who described the Tepee Canyon agates to me. I'd heard of these but never seen one. He told me how to get to the diggings, which are actually right on Highway 16--no trouble finding them at all. This canyon is on the western edge of the Black Hills, where Minnelusa formation limestone contains jasper/agate nodules in brilliant reds and clear or white crystals, many with typical Fairburn patterns.

One owner of a rock shop in Custer said the difference between Tepee Canyon and Fairburns agates is that the Fairburn agates are float, while Tepee Canyon agates are still in the matrix and need to be mined. "Mined" is right! Hoisting slabs of limestone and cracking them apart to get at the nodules raised some blisters, but I enjoyed it. The tailings also provided lots of examples which the locals didn't seem to want, but looked great to me, and I didn't even have to haul the limestone to get them. This is all National Forest, so the rocks were free for the taking (mining).

I always go mountain climbing in August, usually for a week, but one of the guys decided to go out West a week early to see the badlands and Black Hills. I had the time, so we went together, and I ended up in the area twice in the same year, never having seen it before.

We found some fossils and a few nondescript agates, but then I was lured back to Tepee Canyon while he went hiking among the pinnacles one day. I sweated and grunted (this was August remember) and located a pocket of solid agate which eventually gave me about forty to fifty pounds of prize figured agate. Not only that, but there was some road construction going on, and the bulldozers had turned over lots of new dirt, so I just moseyed along the edge of the highway and turned up several nice Fairburns. It was a great day.

Later, on the way to the mountains, we stopped at Wiggins Fork in Wyoming and I dug out some limb casts (agatized) and found one nice hunk of Wiggins Fork petrified wood. This wood is world famous for retaining the cellular structure in precise detail when it was petrified.

Are the Black Hills calling me back? You bet. Think of how many agates there are left to find!

Indiana Fossil Collecting Sites

by Paul Godollei, Club Member

MISSISSIPPIAN FOSSILS - The old abandoned quarry of the Midwest Rock Products Co. one mile southwest of Spencer, in Owen County has some very nice Mississippian fossils in it, but they are hard to find. The low shaly limestone benches in the quarry and large boulders contain good lamp shells and corals. Look in the thin black shale of the island like mass at the northwest end of the quarry for tiny ostracods and larger pelecypods. You have to soak the shale in water for a few days to loosen up the ostracods. Look for the quarry west of Indiana Highway 67, where it goes up the White River bluff.

You can find a whole acre of crinoid stems up to one inch in diameter 1.5 miles southwest of New Ross, Indiana in southeastern Montgomery County. The dump is next to an old water filled quarry. Take the road south and west out of New Ross past the cemetery; turn on the first road leading west and continue west 0.5 miles. Where the road turns north, look for the quarry west of the road, behind a house near the corner and east of Racoon Creek. Be sure to ask for permission to look for fossils.

The old swimming hole that used to be the Silverville quarry in western Lawrence County is known for its Mississippian fossils. Many are located in the massive limestone ledges at the west end of the quarry, and in the rubble nearby. Look for the quarry immediately north of Indiana Highway 158, east of Silverville 0.8 miles.

If you like "Indian Beads" look in the Stobo lens near Bloomington. This reef like lens is a mass of limestone, shale, and Mississippian fossils. The lens is exposed in the road cut at Highway 46.

The abandoned Seymour Gravel Co. quarry in southwestern Jackson County is a fine place for geodes and Mississippian marine fossils. Go in late summer or fall to avoid the mud on the quarry floor. Go three miles straight west from Medora to a T junction. The quarry is on the south side of the side road and 0.3 miles east of the main road. There is an old quarry road leading to the spot.

The Salem limestone of Mississippian age is exposed where the Chicago, Indianapolis and Louisville RR cuts through Spergen Hill just south of the village of Harristown, east of Salem in Washington County. Go 2.7 miles west of South Boston along Indiana Highway 160 and turn north 0.5 miles. The cut is east of the secondary road. Many micro snails and geodes are found here along with trilobites, sea lily stems and brachiopods and corals.

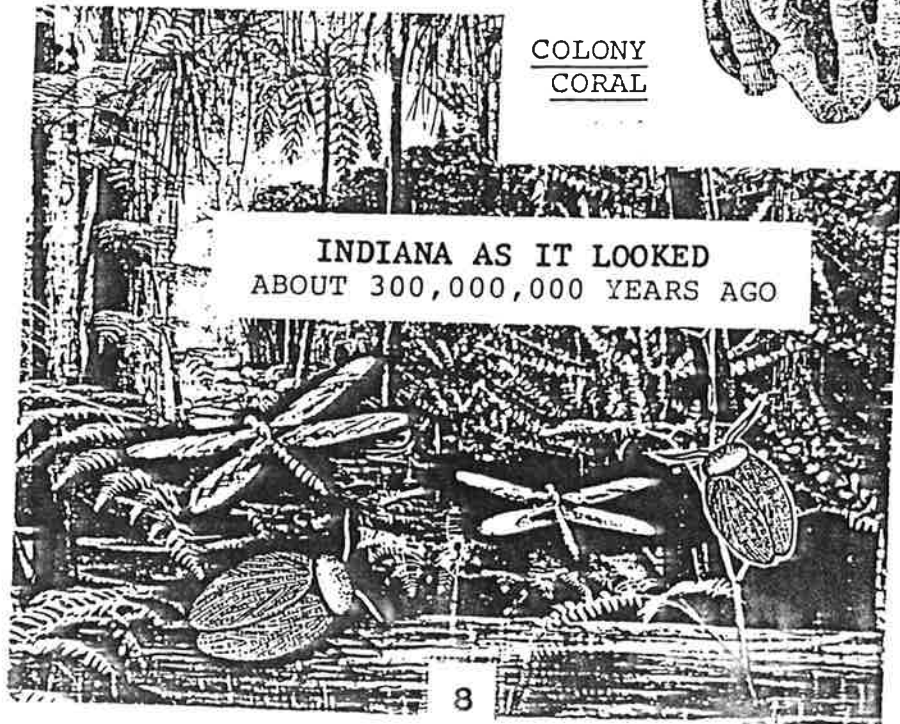
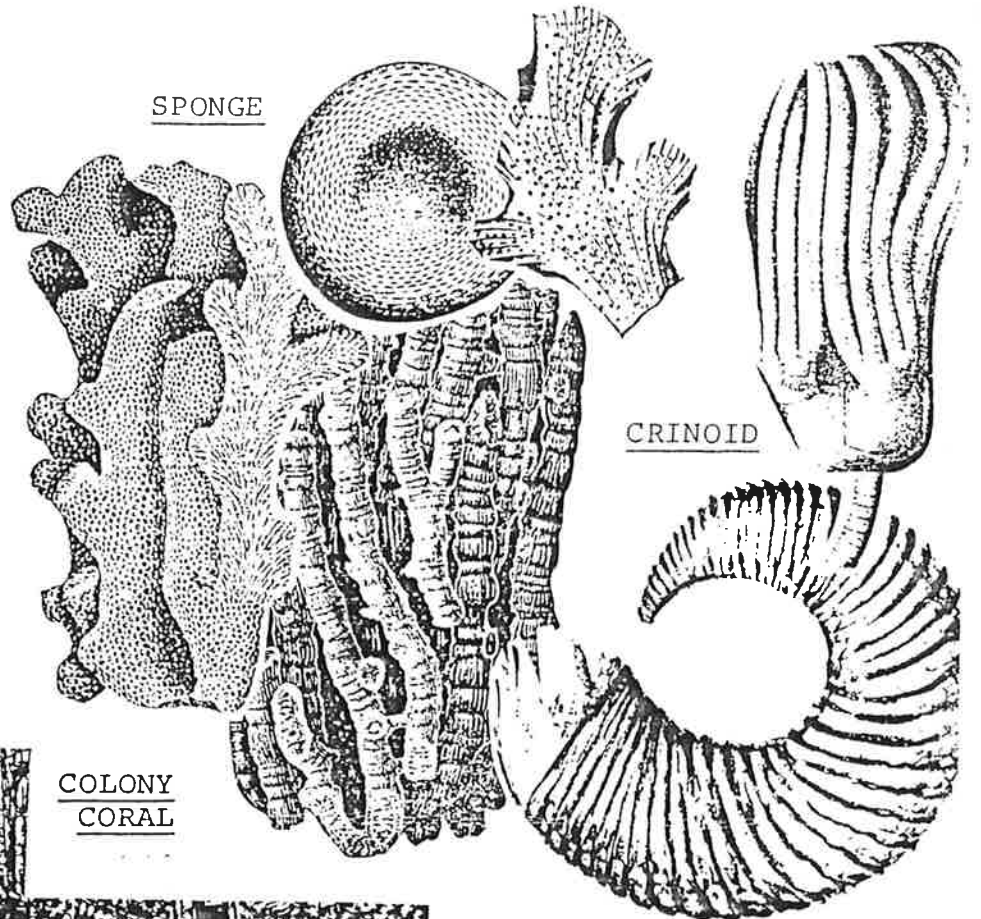
The crumbled rock that slumps down from the cut is full of microfossils. Take a sackful home and boil it for half an hour in water with strong detergent or washing soda. Strain through a cheesecloth and sort out the microfossils under a powerful magnifying glass or stereo binocular microscope. Lift out the fossils with a moist fine watercolor brush and mount on cardboard microslides with adhesive.

The Mississippi shale is also exposed near the Wabash railroad tracks in a shale pit of the Porter-Herron Brick Co. of Attica, in Fountain County. Go one mile northeast of Attica and south of the secondary road to find the pit.

Bibliography:

"Adventures with Fossils" by Robert H. Shaver, Indiana Dept. of Conservation, Geological Survey Circular #6, 1959, lists 34 collecting sites.

"Midwest Gem, Fossil and Mineral Trails" GREAT LAKES STATES, by June Culp Zeitner, Gem Guide Book Co., Pica Rivera CA, 1988.

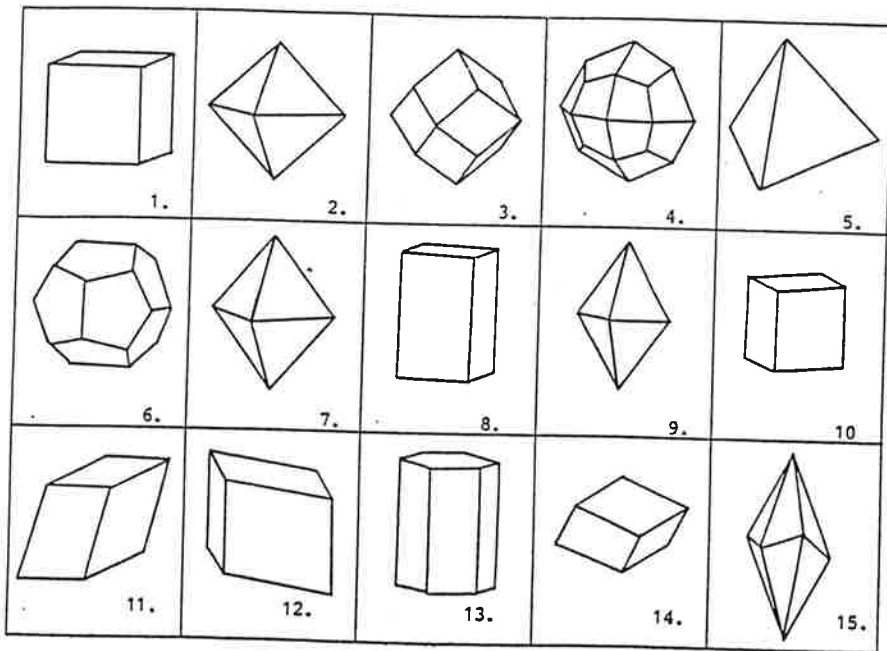


INDIANA AS IT LOOKED
ABOUT 300,000,000 YEARS AGO



-- adapted from GEM CITY ROCK NEWS

Match the Crystal to the name - insert the number in the blank.



- PINACOID-MONO _____
- TETRAHEDRON _____
- DODECAHEDRON _____
- OCTAHEDRON _____
- PINACOID _____
- SCALENOHEDRON _____
- PRISM and BASAL PINACOID _____
- TRAPEXOHEDRON _____
- CUBE _____
- PRISM _____
- DIPYRAMID _____
- PYRITOHEDRON _____
- PRISM and BASAL PINACOID _____
- RHOMBOHEDRON _____
- PINACOID-TRI _____



CRYSTAL FORM Word Search

W - N H R T E - Y I P T X B F M N Z
 L S O R L I K V D C C A X O D I H O
 T D R D I M A R Y P I D C U B E C L
 D R D V Y N O R D E H A T C O K T -
 A G E X N Y B D I O C A N I P R Z Z
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 Y M C N M J E D J - G J E M E R W Q
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September's Puzzle Answer

X G O U G H R N I C K E L Z Y P
 U T I V W U Y R G S H Z I F R B
 N J I N L C A Y A B O R A X A D
 G D K O E Q P R X P C P Y M I E
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 M V O S I H J X E N O L I T H W

- CUBE
- OCTAHEDRON
- PINACOID
- PYRITOHEDRON
- DIPYRAMID
- PRISM
- PINACOID-MONO
- RHOMBOHEDRON
- TRAPEXOHEDRON
- DODECAHEDRON
- TRAPEXOHEDRON
- PINACOID-TRI
- SCALENOHEDRON



President's Message

by Bruce MacLellan, GMFC President

A couple of thoughts about our hobby --

First - you only get out of it what you are willing to put in it. Speaking with a member of one of the B.C. clubs the other day, I discovered that he was ready and willing to take all of the instruction that the club had to offer, and wanted more. I suggested that he join the executive, make these suggestions and help implement new programs. He backed away saying that he didn't want to get involved with internal politics and personality clashes.

It is inevitable that certain groups seem to dominate the executive of clubs, but I don't think that is intentional. It is more likely that those are the only members willing to stand and put their efforts into keeping the club going. If other members don't want to do "political" work, then it is inevitable that the club will be run by the same members year after year. Though it doesn't always happen, this can lead to stagnation and a certain loss of momentum. A club has to be dynamic, with all members willing and sometimes insistent on getting their views heard and their ideas given a chance.

Gem & Mineral Federation of Canada

Clubs should go out of the way to encourage new members and welcome them. Share your knowledge and experience willingly and cheerfully and always be open to suggestions that seem to show promise. And I say "seem to" because naturally all efforts won't be positive, but enough will be so that we will all benefit in the long run.

Second - I'd like to pass along one suggestion that does seem to be working. One club which has regular lapidary and faceting evenings has tried wirewrapping, silversmithing, soapstone carving, and enamelling in a Saturday 6-hour workshop session format. They have had an excellent response.

Keep in mind that "experts" from other clubs can be invited to come on one Saturday and are more likely to be able to participate as they are not committing to a long term arrangement. Most people feel honored to be asked and club members appreciate being able to try something new.

-- from GMFC Newsletter via AFMS Newsletter.

**MIDWEST FEDERATION
1994 CONVENTION
GEM & JEWELRY
SHOW & SALE**




**Century Center
120 S. St Joseph St.
South Bend, IN**

**Retail Dealers
Demonstrations
Displays**

**Friday Sept. 2 - 10am to 7pm
Saturday Sept. 3 - 10am to 6pm
Sunday Sept. 4 - 10am to 5pm**

**Adults \$3 daily; 3 day pass \$7
Age 6 to 16 \$1.50 daily; 3 day pass \$3.50
Under 6 Free**

OPEN TO THE PUBLIC

Hosted by Michiana Gem & Mineral Society

Information:
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 Accessible

ANNOUNCEMENT

*Michiana
Gem & Mineral
Society*

**1994 Show Theme
Contest**

For the October meeting, come with your ideas for the 1994 show theme, and YOU could win!