

MINUTES OF MEETING—MARCH 10, 2001

The March 10th, 2001, meeting of the Midwest Chapter of the Friends of Mineralogy was held at the Wayne County Fairgrounds, Richmond, Indiana, in conjunction with the Eastern Indiana Gem & Geological Society Show.

Twenty members and guests were present.

At 1:00 PM, member, Terry Huizing, presented a slide illustrated talk, "Mineral Collecting Down Under", describing his recent experiences field collecting in Tasmania. Terry had the rare opportunity to visit the classic locality for Crocoite (bright red to orange prismatic crystals of lead chromate-PbCrO₄) at Dundas, Tasmania.

Following this talk, a business meeting was conducted by President Edington. The minutes of the January 14th, 2001, meeting was accepted as printed in the March newsletter. The treasurer's report was not available.

Old Business: The 4th Midwest Mineral Symposium will be held in conjunction with the Cincinnati Gem, Mineral, Fossil & Lapidary Show at the Cincinnati Convention Center, 5th & Elm, on Saturday, May 5, 2001, from 2:30 -6:00 PM (EDT). Details are printed in the March newsletter.

New Business: George Heaton, Vice President for Field Trips, reported that the Grand Rapids Cold Storage site is closed for security reasons, at least temporarily. George has tentatively scheduled a March 24 field trip to the IMI Pendleton Quarry near Anderson, Indiana. As always, please contact George Heaton at 517-339-8914 for confirmation and registration prior to making the trip to a site. An April 21st trip to Bluffton, Ohio, is also planned provided the company is not operating their crushers that morning.

Member, Fred Lewis, presented designs for a new chapter logo. There was consensus at the meeting that the emblem should include some representation of the states mostly included in the Midwest Chapter—Ohio, Indiana, Michigan, Kentucky, Illinois and eastern parts of Iowa. Fred will give the editors a copy of the proposed design – decision will be made at the Bloomington show.

The Club will have a display at the Cincinnati Show following the show theme "Colorful Carbonates". Members are encouraged to loan specimens for inclusion in this case – please contact Nelson Shaffer at h: 812-339-6623 or <shaffern@indiana.edu>.

The meeting was adjourned.

Albert Sicree, Secretary



REPORT OF THE MARCH FIELD TRIP BY GEORGE HEATON

Our March 24th field trip to the Irving Materials, Inc., Pendleton Quarry near Anderson, Indiana, attracted eight Friends of Mineralogy members and ten from my Lansing, Michigan club. Those people who stayed home because they thought the weather might be too wet or too cold missed what turned out to be a beautiful collecting day. As usual, for a George Heaton led field trip, it was sunny and dry, although a bit cool, which allowed one to work hard without getting hot and sweaty. This was a good start for the collecting season.

I believe everyone collected an ample amount of calcite and I even saw a few quite decent specimens that some of our group had found. Some of us even collected some very nice yard rocks. My brother, Roger, and I spent about twenty minutes trying to load one into the car that didn't look very big, but it proved too heavy for us. It seems like rocks are getting heavier every year.

Editor's Note: George is right. The quarry at Pendleton is a very good collecting site for calcite. Perhaps a new find at this quarry—sphalerite. If anyone has ever found sphalerite there, please let the editor know. Thanks—fmc

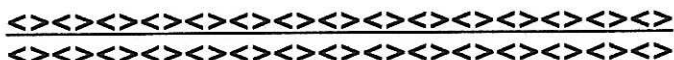
MEMBERSHIP RENEWAL DEADLINE

Members must renew by May 5, 2001 to continue as a member in good standing. This will be the last newsletter you will receive unless you renew by the date above. Send your check or money order to Lorraine Wright, Treasurer, Midwest Chapter
1505 S. Randolph St., Indianapolis IN 46203
\$15.00 each individual, \$8.00 for each additional member of same household.



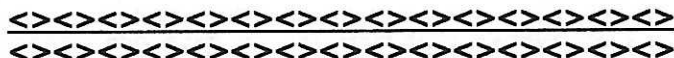
FIELD TRIPS

Mr. George Heaton has arranged two field trips for April and May. More information appears elsewhere in this issue. The newsletter is being sent out early to notify members of these field trips. **You must be a paid member to attend both of these events.**



4TH ANNUAL MIDWEST SYMPOSIUM

Don't forget to send your registration form to Ernie Carlson by April 28th.
The latest up-date is enclosed for your benefit.
Fees for the Symposium do not include admission into the Cincinnati show.
Special reduced parking rates for attendees at the show and Symposium at System Parking, Inc. 7th & Elm.



VOTE ON THE NEW LOGO

Mr. Fred Lewis has designed a variety of possible logos for the Midwest Chapter. You will find a ballot with the different logo designs on Page 7. We ask that you make your choice and return the ballot by June 15, 2001, to the President. The ballots will be counted at the June meeting in Bloomington.



SILENT AUCTION

We will be permitted to be a part of the silent auction at the Bloomington show.

Details will be announced in the next newsletter, but now is the time to hunt in those boxes for specimens you have not seen in quite a few years and donate them to the Midwest Chapter. This is a small money-raising project.

**Bring your specimens to the Bloomington show or send them to Nelson Shaffer. 530 Cabot Ave., Bloomington IN 47408
Please indicate that they are for the silent auction at the June show.**

We will also have a silent auction at the Greenfield show in September.



CALENDAR OF EVENTS

- Apr. 28-29—Troy OH— Gem & Mineral Show, Jr. . Fair Bldg. Miami Co. Frgds, Co. Rd. 25-A. Free. Info: 937-773-0545
- May 5—Cincinnati OH—4th Midwest Mineral Symposium. Theme—Colorful Carbonates. Speakers. 2:30-6:00 PM. Pre-registration \$10.00, At door \$12.00. Info: Ernie Carlson, Dept. of Geology—Kent State Univ. Kent OH 44242
- May 5-6—Cincinnati OH—37th Annual Gem, Mineral, Fossil & Jewelry Show of Greater Cincinnati. Show Theme: Colorful Carbonates. Convention Center, 5th & Elm. Hrs. Sat 10-7, Sun. 11-5. Adm.
- May 19-20—Cleveland OH—Cleveland Area—Parma Lapidary Club North Coast School of Lapidary Arts 33rd Annual Gem & Mineral Show & Sale. Cuyahoga Co. Frgds, Bagley Rd. Frs. Sat. 10-7, Sun 11-5. Adm. Info: 330-725-3900
- May 26-27—Lexington KY—Blue Grass Gem & Mineral Club's 38th Annual Gem & Mineral Show—"Hidden Treasures Under Foot". Oleika Shrine Temple, 326 Southland Dr., Sat. 10-7, Sun 11-5. Free.
- May 26-28—Wheaton IL—Gem, Mineral & Fossil Show, DuPage Co. Frgds. 2015 W. Manchester Rd., Hrs. Sat-Sun 10-6, Mon. 10-5. Adm. Info: 630-896-7133
- June 2—Lost River Field Trip—Tours of Indiana's Lost River Karst System. ORLEANS IND. Depart 8 AM-SE corner Town Square (SR37 & SR 337. Orientation 7:40 AM. Info: Bob Armstrong 317-253-6951
- June 9-10—Donnelsville OH—Gem, Mineral, Fossil Show + Headley Ballpark. Sat. 10-6, Sun. 10-5. Info: 937-322-1021.

THE DUGWAY GEODE

The Dugway geode is one of the most interesting and attractive mineral forms found in Utah. Most are spherically shaped rocks with an agate lining frosted with quartz crystals projecting towards an inner cavity. However, others have been found which have a solid fill of opal or amethyst crystals, some with brown opalite, and occasionally some are found with calcite crystals.

The two most frequently asked questions about the geode are: How were they formed, and how does one recognize them from other rocks?

It is relatively easy to recognize the geode because of the agate striations on the outer surface. The only caution is that occasionally the striations have been eroded smooth and, although still visible, can be hard to see.

Known throughout the US as "Dugway Geodes," these interesting formations occur in great abundance on the western side of the Dugway Mountain Range in Utah's Tooele and Juab Counties. They were probably formed during the middle Tertiary period (approximately 40 million years ago) when lava flows were common occurrences in this area of Utah and southern Idaho. When cooled, many of these flows formed rhyolite rock, which is acidic and contains the greatest silica content of the normally encountered lavas. Gas cavities, or vugs, resulting from releases of gaseous materials are very common to most lava flows. These cavities persist throughout the transformation of the molten lava to rhyolite rock, and their formation represents the primary stage in the development of the geode.

As the lava changes from a liquid to a solid, contraction occurs, resulting in cracks. These cracks represent the secondary stage in the geode formation, as they provide an ideal reservoir for the channeling of silica dioxide (quartz) solutions which originate in the molten lava.

The quartz solutions begin to permeate the cracks and appear to be attracted to the inner wall of the cavity, where they are deposited in distinct layers. This is the tertiary stage. However, this process is not continuous and varies in both intensity and degree of mineral purity.

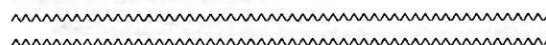
Temperature undoubtedly plays a significant but obscure role in the transformation of silica dioxide from a solution to agate, chalcedony or crystals. The different layers of

agate bands found in many Dugway geodes are ample evidence of the various impurities within the deposition solutions, and the abrupt interruptions of the depositional process. A slight content change of the minerals within the solution will impart a different color agate, while a pure solution of quartz will form clear crystals.

It appears that the initial process of quartz deposition was conducive to agate formation, while the later process was conducive to the formation of crystals.

The outer surface of the cavity is reinforced by quartz during the aforementioned process, thus creating an autonomous unity within the surrounding rhyolite rock. At this point the geode is formed and awaits its time to be freed from the rhyolite by the process of erosion.

John W. Barry, News & Views, via NAPA Gems 1/95



WHAT IS A PHANTOM CRYSTAL?

A phantom crystal is actually a crystal within a crystal. The makeup of the phantom must be the same as the one that encloses it. There may be more than one inside a single crystal. The usual explanation of phantoms is intermittent growth, growing for a while then stopping. For a period the crystal is exposed and a very small amount of foreign matter (dust, etc.) falls on its surface. The conditions then change and the crystal starts to grow again, with the possibility of this happening several times. The result is a crystal that appears to have one or more other crystals enclosed within it. Sometimes phantoms are oriented the same as the enclosing crystal; at other times they are not. In clear crystals, such as quartz, the enclosed crystal appears shadowy and faint and, therefore, we have the name phantom. The difference between a phantom and an inclusion is that the inclusion must be a different mineral species.

Via Chips & Chatter, T-Town Rockhound and Rockpile 96/97

FIELD TRIP—BLUFFTON STONE CO., BLUFFTON, OHIO

SATURDAY, APRIL 21, 2001

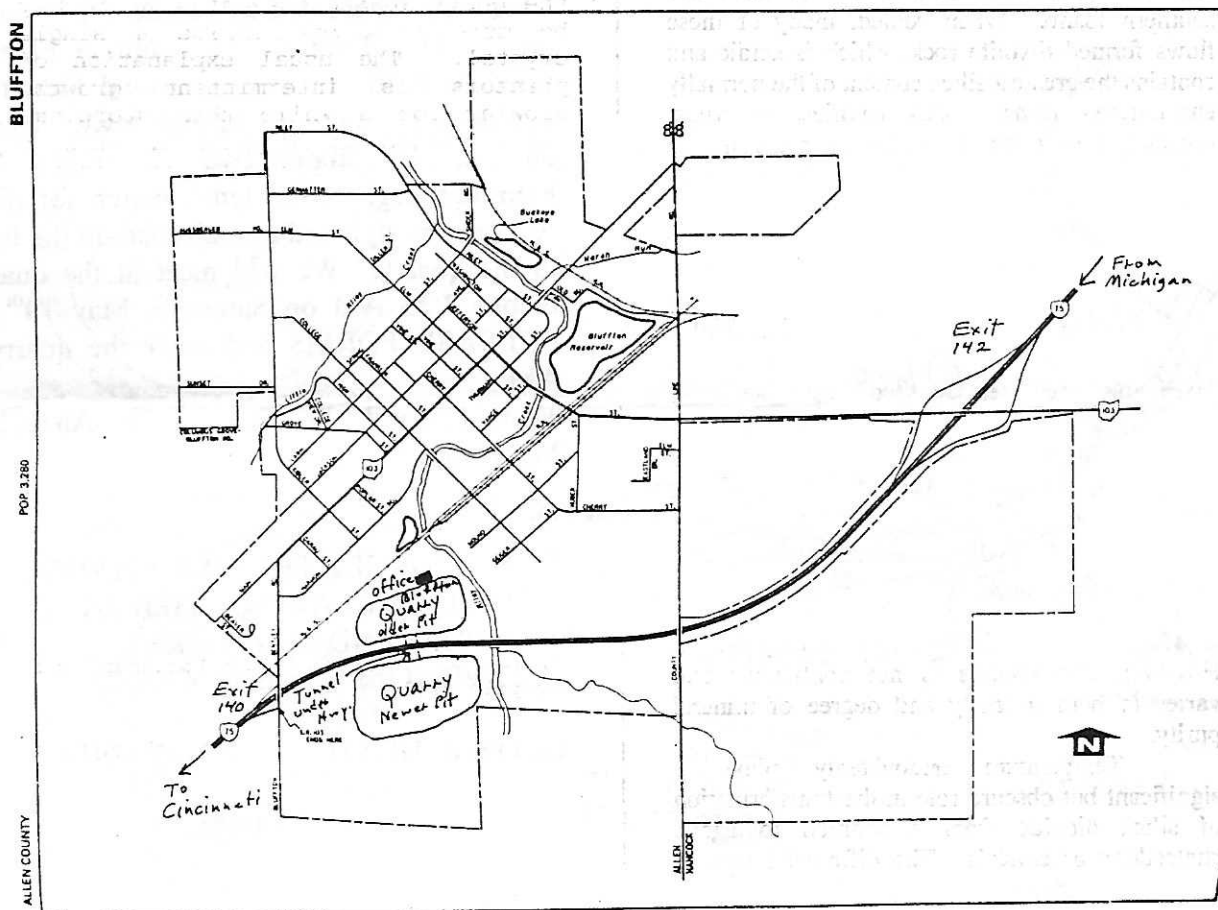
FROM GEORGE HEATON, VICE-PRESIDENT (FIELD TRIPS)

We have TENTATIVE PERMISSION to visit the Bluffton Stoneco Quarry at Bluffton, Ohio, on Saturday morning, April 21, 2001. The quarry is located next to I-75 at exit number 140. We meet at the quarry office at 7:30 AM and collect until 11:30 AM.

I was told to call the quarry about a week before our planned visit since making plans this far ahead, the quarry does not know what their work schedule will be like. If they have TO RUN THE CRUSHER that morning, they WILL NOT be able to ALLOW VISITORS due to the increased traffic. All those interested in this field trip, please CALL ME a few days before the scheduled field trip to be sure it has not been canceled or rescheduled.

Minerals to be collected are fluorite of mostly yellow to brown color, small white dolomite crystals and sometimes small red sphalerite crystals.

GEORGE HEATON 1-517-339-8914



DON'T FORGET--DAYLIGHT SAVINGS TIME IN OHIO

FIELD TRIP—FLEMINGSBURG, KENTUCKY

SATURDAY, MAY 19, 2001

FROM GEORGE HEATON, VICE PRESIDENT (FIELD TRIPS)

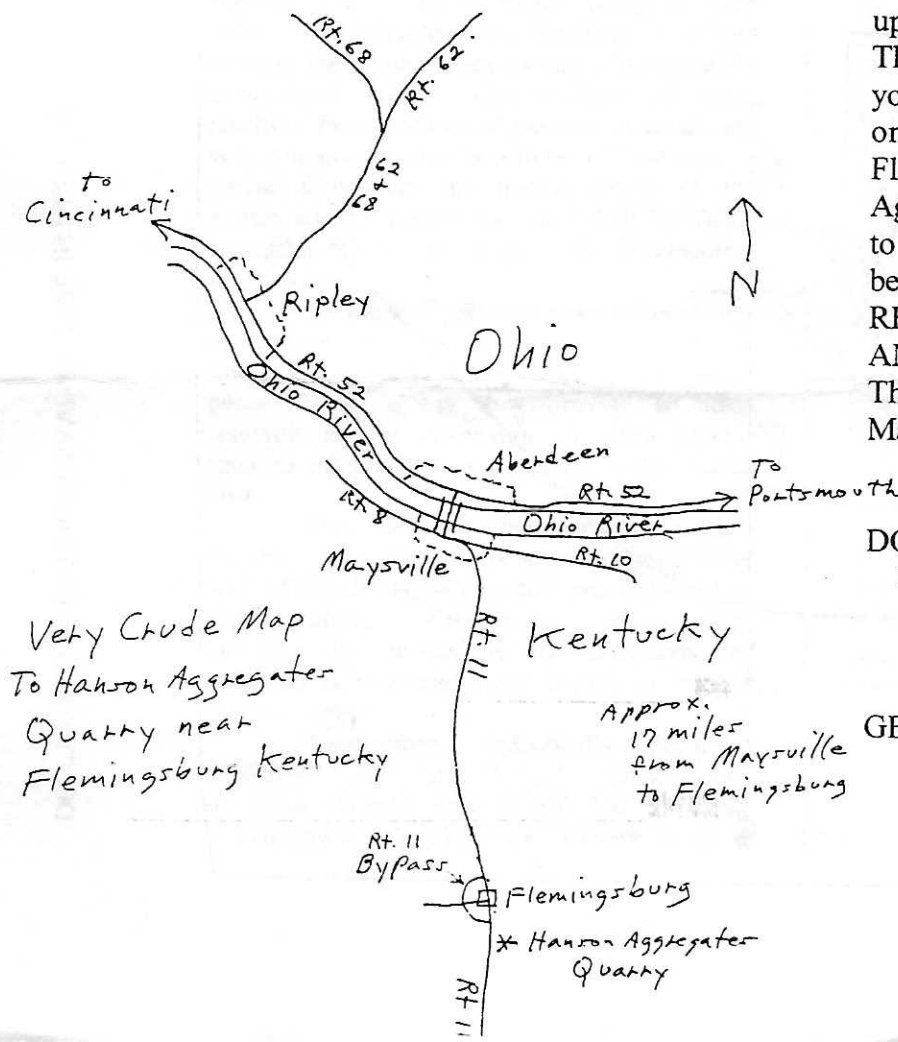
For our May Field Trip, we have permission to visit the Hanson Aggregates Quarry near Flemingsburg, Kentucky, on Saturday, May 19, 2001. This quarry only allows collecting on Saturday mornings from 7:30 AM to 11:00 AM. This means most of us will need to travel Friday afternoon and spend Friday night somewhere close enough to Flemingsburg to arrive at the quarry before 7:30 AM. ALL VISITORS MUST HAVE HARD HAT, HARD TOED BOOTS, SAFETY GLASSES OR GOGGLES, ETC. The usual tools are needed such as cold chisels and 2-3 lb. crack hammers. Heavier hammers and pry bars are also useful, and don't forget boxes and wrapping paper for specimens. This quarry is for the calcite collectors like myself. The calcite here is usually clear, lustrous rhombohedron, sometimes sprinkled with small pyrite or marcasite crystals. Barite may also be found as clear, colorless blades.

To get to the Hanson Aggregates Quarry from Ohio, cross the Ohio River at Aberdeen to Maysville, Kentucky, where you will make a left turn and pick up Rt. 11. Take Rt. 11 South to Flemingsburg. There is a Rt. 11 bypass around Flemingsburg if you do not wish to go through town. The quarry is on Rt. 11, about two (2) miles South of Flemingsburg, on the left. Watch for the Hanson Aggregates sign and a small road on the left leading to the quarry. We will meet at the quarry office before 7:30 AM on Saturday, May 19th to SIGN RELEASE FORMS and enter the quarry at 7:30 AM.

There should be motels in Aberdeen and Maysville.

DON'T FORGET THE TIME CHANGE-----
DAYLIGHT SAVINGS TIME IN
OHIO AND KENTUCKY
(in effect the beginning of April)

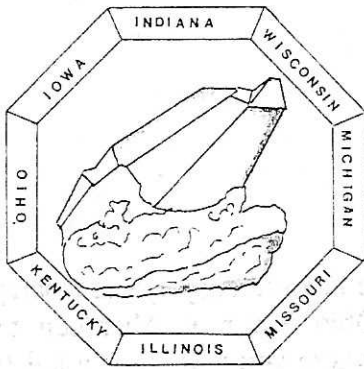
GEORGE HEATON 1-517-339-8914



BELOW YOU WILL FIND THE DESIGNS THAT MR. FRED LEWIS HAS DRAWN FOR US. WE WILL NEED YOUR HELP IN DECIDING THE LOGO TO USE FOR THE MIDWEST CHAPTER

WE ASK THAT YOU MARK YOUR CHOICE AND SEND THIS BALLOT BACK BY JUNE 15, 2001, TO PRESIDENT, D. EDINGTON, 217 W. BROWN ST., KNIGHTSTOWN IN 46148 WITH YOUR CHOICE OR EMAIL US AT dandme@spitfire.net WITH THE STYLE YOU PREFER.

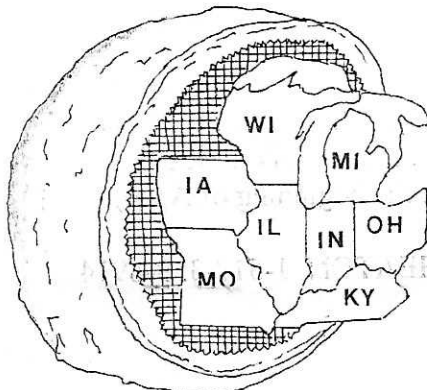
THE VOTES WILL BE COUNTED AT THE JUNE MEETING IN BLOOMINGTON ON JUNE 23, 2001 THIS IS VERY IMPORTANT AND WE WANT ALL TO PARTICIPATE IN CHOOSING OUR NEW LOGO



#1 _____



#2 _____



#3 _____

NAME _____