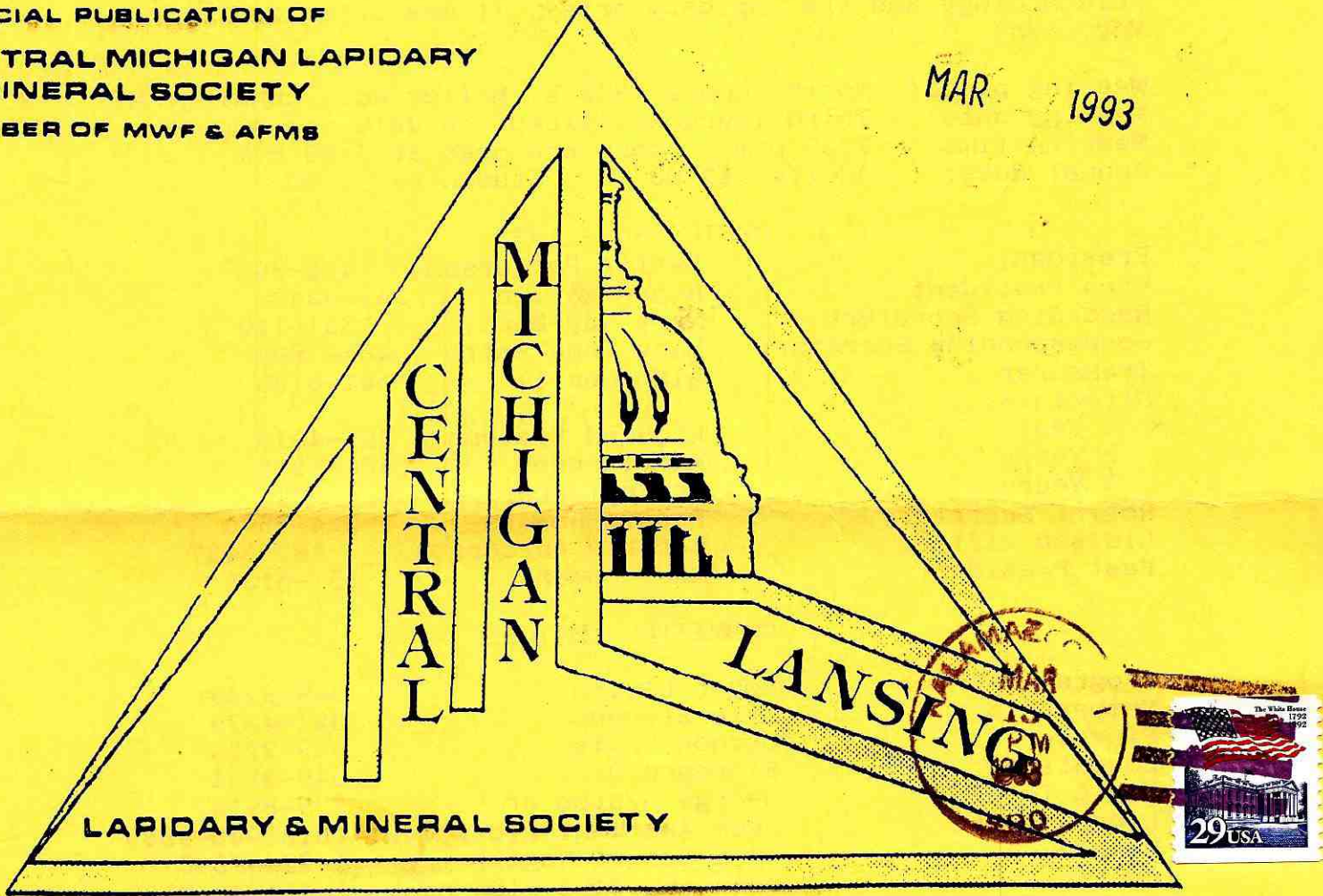


ROCKHOUND NEWS

OFFICIAL PUBLICATION OF
CENTRAL MICHIGAN LAPIDARY
& MINERAL SOCIETY
MEMBER OF MWF & AFMS

MAR 1993



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FIRST CLASS
T I M E V A L U E

ROCKHOUND NEWS

This bulletin is the official publication of the Central Michigan Lapidary and Mineral Society of Greater Lansing, Michigan. It is published the second week of each month except July and August.

The Central Michigan Lapidary and Mineral Society is a non-profit organization, meeting to promote interest and increased knowledge in the fields of mineralogy, geology, paleontology and the lapidary arts. It was organized in May, 1957.

Meeting place: North School, 333 E. Miller Rd., Lansing, MI
Meeting date: Third Thursday, except in July and August
Meeting time: 7:30 p.m. Doors are open at 7:00 p.m.
Annual dues: Adults \$3.00 Students \$1.00

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Vice President	Roger Laylin	349-3249
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Corresponding Secretary	Mary Anne Smith	484-7804
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Field Trips	George Heaton Jr	339-8914
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MEMBER OF:

Midwest Federation of Mineralogical and Geological Societies
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BETTIE'S BANTER (OR PRESIDENT PATTERSON'S PATTTER)

March is nearly with us as I write this, and I'm thinking ahead to our Annual Silent Auction coming up. While the winter weather is with us, it is a good time to sort through our rocks and/or equipment for something some one else might like to buy. So bring it to the March meeting. Or, maybe, you will find some lovely or unusual specimens that you'd like to display at our Show in October. If you should also find some extra pieces or some of lesser quality, put them aside for the Children's Table and bring it to our April meeting.

I was very pleased with the wonderful cooperation of some of our members who helped out at "A Science Day at the Mall" on Saturday, Feb. 20 at Meridian Mall. Joe and Alberta Manina displayed their lovely February Birthstone case; Red and Bessie Rogers displayed the Society's Memorial Case and their beautiful Star Rubies case, while Red demonstrated polishing Star Rubies; Richard Miller demonstrated hand-polishing Petoskey stones and other beach stones; David and Jean Ann Piotrowski had a table full of hands-on rocks, books and tools for identification of rocks; Jeff and Alan Hukill manned the Michigan Map; Lila Stevens manned club and show information and the Kreps Fossil Case; I displayed my case of Records in Rocks, cabochons, critters, magnetic sand, Michigan's State Stone and State Gem Stone; Sally Barber and Grit Turner filled in wherever they were needed; and George Heaton's posters of Field Trip pictures were on display as well. We had a lot of people who interest in our hobby, we urged everyone to come to our show in October. Although we learned at the last minute that the Mall did not allow us to sell, I felt the time and effort expended was worth doing.

Bettie Patterson

WELCOME TO OUR NEW MEMBER: THOMAS TRANA

At the February Board meeting, Thomas Trana was accepted into our club. Thomas is a botanist by trade; and, enjoys computers and audio technology as a hobby. When it comes to "rocks," he is interested in mineralogy and lapidary arts.

The 1993 club directory should be available at the March meeting, but just in case here are Thomas' address & phone:
955 Abbot Rd. #2, East Lansing MI 48823 351-8655.

MARCH 18--THE MOST EXCITING MEETING OF THE YEAR!

Your heart pounds and adrenaline surges, you are engaged in heated (but friendly) competition for that special item...it's a silent auction frenzy!!! For better or worse, we have to admit it, rockhounds are chronic COLLECTORS! Adding to our collection is even more fun when the price is a bargain. Here is how our club silent auction works:

IF YOU WISH TO SELL your surplus specimens, equipment, findings, creations, etc. you will need to fill out a bid slip for each item. On the bid slip you will identify the item for sale, and set a minimum bid. Bid slips will be available at the meeting, or in advance, from Roger Laylin. ITEMS FOR SALE MUST BE HOBBY RELATED. ALL PROCEEDS GO TO THE SELLER, NOT THE CLUB.

The items are layed out on tables with their bid slips. If you wish to purchase an item, simply write your name and bid on the bid slip. You must begin with the minimum bid, and the minimum increase thereafter is 10 cents. Be careful to pay close attention to the bidding, as the auction ends unexpectedly at the sound of Gordon Lewis' horn!

Payment is made at the end of each round of the auction, so PLEASE BRING PLENTY OF ONES AND SMALL CHANGE IF YOU PLAN TO BUY. Having the correct amount speeds up the auction, and makes it easier to divide money at the end of the evening.

Those who do not wish to participate in the auction are welcome to enjoy the club library; work on stuffing bags for the kids table; or, simply have some refreshments and visit.

MARCH FIELD TRIP TO HUNTSVILLE OHIO, MARCH 20 -- George Heaton

The field trip for March will be to the Duff Quarry at Huntsville Ohio on Saturday, March 20th. We will meet at the quarry office at 10:00 am on Saturday morning.

All field trippers must wear a hard hat, hard toed boots, and safety glasses or goggles. Tools needed are: chisels in both large and small sizes, crack hammers of 2-3 lb. size, pry bar, and a sledge hammer of 8-10 lb. size. Don't forget wrapping paper and boxes for packing specimens.

Vugs of minerals are found in the quarry's dolostone. The most sought after mineral is bright, lustrous pyrite in unusual crystal habits. You may also find dolomite crystals; calcite; and; occasionally sphalerite and fluorite. Often you may pick up these vugs in hand size pieces of rock. If you are feeling ambitious, you may also choose to break open the larger pieces in search of hidden treasures.

It is a good idea to resist the temptation to trim excess rock from your vug in the field -- many beautiful clusters of crystals have be thus ruined. Take the pieces home to use a trimmer; or, at least pack the vugs with clay or soil before you go at it with a hammer and chisels.

The November-December 1987 issue of the Mineralogical Records has an article about Duff Quarry and its minerals with photos and line drawings of the various crystal habits of pyrite found there. If you do not subscribe to this journal, stop by the library and take a look at the Piotrowski's copy.

To get to Duff Quarry, take I-75 South in Ohio to Rt. 235. Go South on Rt. 235 through Ada, Alger and Roundhead. Then South on Rt. 117 to Duff Quarry on your left, just before coming to Huntsville. Allow 4 hours driving time from Lansing to Huntsville, Ohio. There is a map on the last page of this newsletter.

EDUCATION -- Florence Hill

Will the education committee please meet at 7:20 at the library table with any suggestions for dealing with study requests.

The survey taken January 21 showed the greatest interest in the study of fossils, rock & mineral identification, geology and minerals. In crafts, the number interested in any category was

so small that this can best be handled on an individual basis. Program Chairman Roger Laylin has a copy of the questionnaire results, and may find them helpful.

Neil and Connie Snapp will sponsor a fossil study group. Watch for an announcement of their first meeting.

As to committee interest, the program, membership, display and publication committees need volunteers. You are most welcome on any of the other committees. Just call the chairman and say "Here I am!"

The five minute talk will be on concretions, geodes, coconuts and thundereggs.

Mary Gowans is scheduled to bring in some rocks from Pennsylvania rocks for identification.

INTERESTED IN GOING TO THE "MAYBEE QUARRY"? SIGN UP NOW!

As announced at the February meeting, Mary Kay Bean has obtained permission for our club to visit the Stoneco Quarry in Maybee, MI. This locality is well known for it's celestite and sulphur. We are limited to 12 people per visit, and no children under 12(?) are permitted. PROPER SAFETY EQUIPMENT IS AN ABSOLUTE MUST.

The July 17 trip was filled at the February meeting. However, as of 2/25 there were still 9 openings for the August 21 date. (Please note, this is a change from the August date announced at the meeting which conflicted with the Midwest Federation Field Trip in the Copper Country.) We may collect from 7:30am until noon.

If you are interested, please give Mary Kay a call at 351-1107.

CORRESPONDING SECRETARY REPORT

During the month of February cards were sent in sympathy to the family of life member Walter Williams. Walter, who enjoyed fossils, always brought Frank & Ila Rickerd to meetings when they were no longer able to drive. Walter will especially be remembered for his cheerful disposition. Cards may be sent to his brother Roman C. Williams at 512 W. Jefferson, Pewamo MI 48873.

We sent get well cards to Florence Hill who is recuperating from cataract surgery. Norma Kelly received a note of cheer while she was hospitalized with high sugar. John Hopkins received get well wishes as he has been hospitalized. And, Mary McMahon is recovering from the flu.

We hope everyone is back to good health in time for our March silent auction! Call me at 484-7804 to leave news regarding any of our members.

Respectfully submitted,
Mary Anne Smith

FEELING CREATIVE? HOW ABOUT MAKING SOMETHING FOR THE SHOW -- WE NEED HOBBIE RELATED GIFTS FOR OUR RAFFLE AND DOOR PRIZES. SEE MARY GOWANS IF YOU HAVE A RAFFLE PRIZE; RICHARD STEVENS IF YOU HAVE SOMETHING FOR A DOOR PRIZE. THANKS!

GRAND RAPIDS FIELD TRIP, FEBRUARY 20, 1993 -- George Heaton

Our field trip to the Michigan Natural Storage Co. in Grand Rapids on Saturday, Feb. 20 brought out 12 of our members to try their luck at collecting the various forms of gypsum that can be found there.

All participants hauled out a good quantity of alabaster, "pencil-ore" and some "window-payne" selenite, so the Children's Table should be in good shape as far as Grand Rapids material.

There were only a very few, very mediocre, selenite crystals collected. Digging in the old areas is very hard and as far as I know, no new areas have been opened up.

43,000 YEAR OLD MINE FOR COSMETICS

via Tulip City Conglomerate 1/93 and others

The oldest mine in the world wasn't used to produce ore for metal but paint for body decoration. South African archaeologists report discovering a mine in Swaziland which was excavated by men 43,000 years ago, according to radio-carbon dating of charcoal remains found with stone age mining tools.

The mine is a mountain of hematite and the hematite is rich in specularite, a pigment prized in ancient times as a cosmetic. Among modern Swazi tribes, only chiefs and witch doctors are allowed to cover their bodies with the shining powder.

MEMORIAL FOR WALTER WILLIAMS -- Florence Hill

Walter Williams ("Tubby") of Fowler died February 2, 1993. Walter was a Life Member of CML&MS. He was an enthusiastic and cheerful supporter of club field trips, and of our Show in its early days. He befriended the Rickerds, and made it his responsibility to see that Frank got to club meetings when Frank could no longer drive. Our sympathy is extended to Walter's brother and other family members.

CLUB BANQUET IS APPROACHING -- MAY 20

Marie Lewis, banquet chair, is busy completing plans for this year's banquet. Once again, the banquet will be held at the Okemos Masonic Temple; and, the food will be prepared and served by the ladies of the Eastern Star. Social hour will begin at 5:30pm with dinner being served at 6:30pm sharp! At the March meeting we will be voting whether to have family style (all you can eat) chicken dinner or plate style salsbury steak dinner.

Mary Anne Smith will be taking care of ticket sales this year. You may get yours at a club meeting, or give Mary Anne a call at 484-7804. Banquet prices remain at \$5.00 for adults and \$2.00 for children. The club picks up the additional cost of the dinners.

THE RED ROSE OF OKLAHOMA via The Petoskey Stone 1/93 and Rockhound Harold 12/92

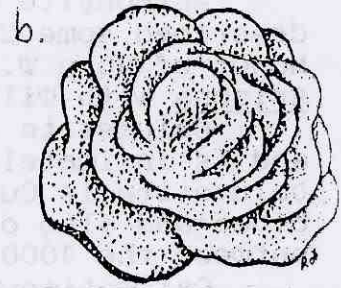
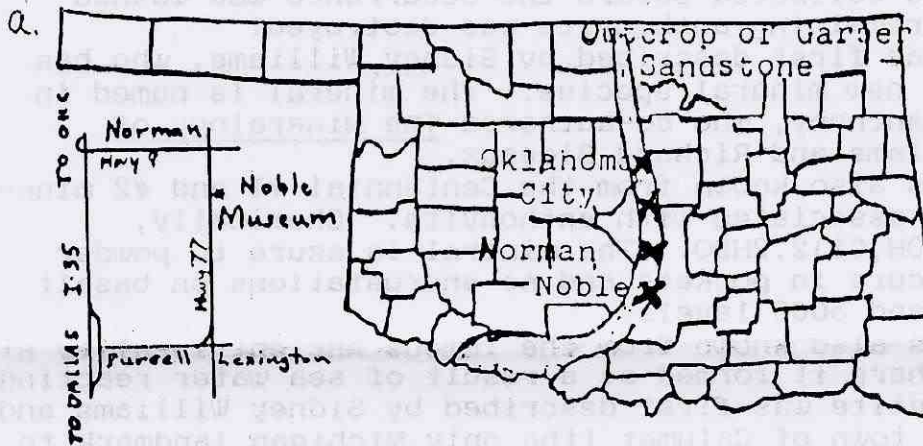
Barite roses consist of reddish-brown sandy crystals of barite (barium sulphate) in petal-like clusters that resemble a rose in full bloom. They are composed of sand and barite in nearly equal proportions and were designated the official State

Rock of Oklahoma on April 8, 1968 when Governor Dewey F. Bartlett signed House Bill #1277.

Barite Roses are found only in Oklahoma and a few whitish gray and yellow ones across the Kansas line. A somewhat similar mineral formation, selenite roses, are often mistaken for barite roses. Selenite is found in many places, such as Egypt, California, Texas, Libya, etc. However, barite roses are very scarce; particularly the best roses. These roses may be seen at the Timberlake Rose Rock Museum in Noble, Oklahoma, south of Norman on Highway 77. Noble was designated the Rose Rock Capitol by Governor George Nigh in 1983. A yearly Rose Rock Festival is held in Noble the first Saturday in May.

a. Map of Oklahoma showing distribution of sand barite roses in Garber Sandstone (xxx).

b. Drawing of well-formed sand-barite rose.



WANTED: TUMBLED STONES FOR MAKING CRITTERS AND MEDIUM SIZED PETOSKEY STONES FOR OUR POLISHING KITS -- IF YOU HAVE SOME TO DONATE, PLEASE SEE LILA STEVENS OR CALL 321-4379. THANK YOU

THE MINERALS OF MICHIGAN'S "TYPE LOCALITIES"-- Dana Slaughter in the Arrowhead News 1/93

The richness and value of Michigan's metal mineral deposits is unequalled east of the Mississippi. Though limited mining continues today, the period between 1850 and 1950 saw the extraction of tremendous amounts of ore. Michigan's mineral heritage is justly famous and Michigan calcites, coppers, datolites and silvers hold their own against any locality.

With so much mining history, and considering the huge amounts of ore mined in the past, one might think that our state might boast of being the "type locality" for a whole host of minerals. A "type locality" is any location from which a new mineral was originally described. Despite Michigan's rich mining history, our state can boast only four type localities, meaning that only four minerals new to science had originally been found in Michigan.

Most of us are familiar with the calcites, coppers and datolites, etc. that we might find (if we're lucky and diligent) on our collecting jaunts, but how many of us have heard of

ANTHONYITE, CALUMETITE, MACFALLITE OR SEAMANITE?! For the collector these four Michigan type locality minerals are all very rare, with MacFallite being the most common. While few of us will ever obtain these minerals for our collections (I've only seen MacFallite of the four) it might be interesting to learn a bit about these elusive rarities.

Anthonyite is known from the Centennial #1 and #2 mines in Houghton County. Chemically it is $\text{Cu}(\text{OH}, \text{Cl})_2 \cdot 3\text{H}_2\text{O}$ and occurs as lavender crystals or encrustations on basalt between the 4000 and 5000 foot levels. According to Heinrich, it is formed by the action of chlorine-rich waters on copper.

A second occurrence for anthonyite is the 1300 level of the Cole mine, near Bisbee, Cochise County, Arizona. Here it occurred as large 5 mm corroded crystals of a vivid violet color. It was found encrusting pyritic ores and is thought to have been formed by the burning of sulfide ores in a nearby stope. Only a few specimens were collected before the occurrence was washed down and all the remaining anthonyite was destroyed!

Anthonyite was first described by Sidney Williams, who has described some 20 new mineral species. The mineral is named in honor of John W. Anthony, who co-authored The Mineralogy of Arizona with Williams and Richard Bideaux.

Calumetite is also known from the Centennial #1 and #2 mines and is intimately associated with anthonyite. Chemically, calumetite is $\text{Cu}(\text{OH}, \text{Cl})_2 \cdot 2\text{H}_2\text{O}$. The mineral is azure to powder blues and also occurs in pockets and as encrustations on basalt between the 4000 and 5000 levels.

Calumetite is also known from the famous ancient locality at Laurium, Greece where it formed as a result of sea water reacting with slag. Calumetite was first described by Sidney Williams and was named for the town of Calumet (the only Michigan landmark to have a mineral named for it.)

MacFallite is known from basalts near Manganese Lake, near Copper Harbor. Its chemical formula is $\text{Ca}_2\text{Mn}_3(\text{Si}_2\text{O}_7)(\text{OH})_3$ and occurs as usually reddish brown compact masses and intergrown crystals in calcite. It is found with braunite, manganite, orientite, and pyrolusite. This locality, known as the Manganese mine, Manganese prospect or the Clark Exploration, is about a half-hour walk north of the Clark mine through the woods. MacFallite is rather abundant at this location.

MacFallite was named in honor of Russell MacFall, for his many contributions to geology, by Moore, Ito and Steele.

Seamanite is known only from the Chicagon Mine, about five miles east of Iron River, Iron County. Here it occurs as pale pink to yellowish brown crystals to 10 x 24 x 1 mm. in post-ore fractures cutting siliceous rock. Chemically it is a manganese phosphate boron hydroxide or $\text{Mn}_3(\text{PO}_4)\text{B}(\text{OH})_6$. It is associated with calcite, sussexite, and other manganese minerals. It was first described in 1930 by E.H. Kraus, W.A. Seaman and C.B. Slawson.

The paucity of new mineral species from Michigan is due largely to the fact that Michigan's huge copper deposits were comprised mostly of native copper rather than copper ores like the open pit mines of the American Southwest. The mines of

Arizona, where tens of new minerals were found, are characterized by oxidized zones near the surface that lend themselves to the formation of many different mineral species. The lack of sulfide ores on the Keweenaw led to rather simple mineralogies. The White Pine deposit is unique in that it is the only major copper deposit in the state where sulfide ores (mainly chalcocite) were/are mined.

While Michigan hasn't exactly been a hotbed for the description of new mineral species, it nonetheless enjoys a reputation for exceptional minerals that few states can match. Michigan minerals, particularly from the Keweenaw, hold a popularity with collectors that has only increased with time. Additionally, there seems to be a trend toward increasing numbers of species collectors, who eagerly seek Michigan's anthonyite, calumetite, macFallite and seamanite.

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LOOKING AHEAD TO THE APRIL PROGRAM

At our April meeting, Red Rogers will offer helpful advice for displaying your collection. Whether you wish to enter competitive or noncompetitive displays at shows, or just wish to show off your specimens at home, this program should be of interest.

In an effort to make this a "hands on" program, you are invited to bring along a selection of your specimens, and, paper to represent the shelves of your display case.

Various plans for building your own display case will also be available at the April meeting.

CLUB CALENDAR

- | | |
|-----------|---|
| March 18 | Regular Meeting and Silent Auction
PLEASE, PLEASE, PLEASE BRING \$1's AND CHANGE |
| March 20 | Field trip to Duff Quarry |
| March 25 | Board Meeting, home of Mary Ann Smith |
| April 8 | Show Board Meeting, home of Rich & Lila Stevens |
| May 20 | Club Banquet- Okemos Masonic Temple |
| July 17 | Field trip to Stoneco Quarry, Maybee MI |
| August 21 | Field trip to Stoneco Quarry, Maybee MI |

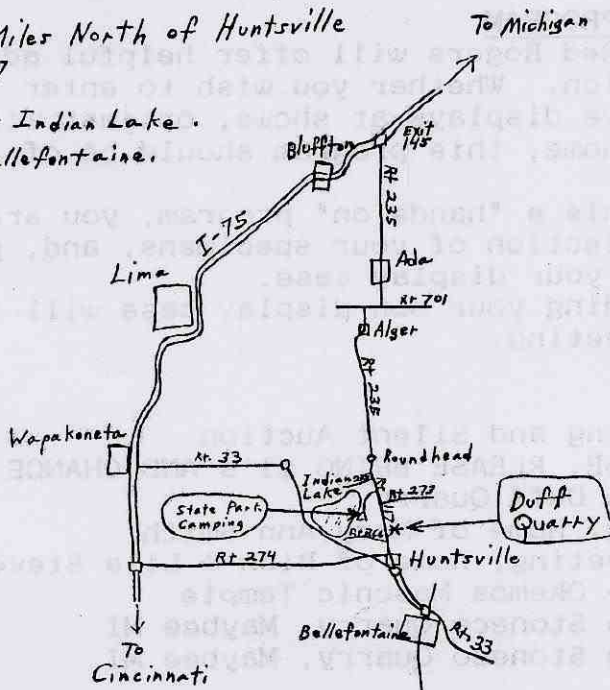
SHOW CALENDAR - SEE RED ROGERS FOR FLIERS

- March 13-14 Roamin Club Auction- Schoolcraft College, Waterman Campus Center Bldg, 18600 Hagerty Rd. Livonia Sat 11am-6pm, Sun 12-6pm
- March 18-20 Jackson Show (Michigan Gem & Mineral Soc.) "Fossils of Yesteryear"- Fraternal Order of Eagles, 302 5th St. Michigan Center Thurs 1-9pm Fri. 10am-9pm Sat 10am-5pm
- March 20 Metro Rock Swap, Dearborn Club 10am-5pm Democratic Club of Taylor 23400 Wick Rd, Taylor free admission & parking
- March 26-28 Flint Rock & Gem Club Show "Rockhound Fiesta"- Williams Comm. Education Center, 3501 Minnesota Ave, Flint Fri & Sat 10am-7pm Sun 12-5pm
- March 31-April 3 Indian Mounds Rock & Mineral Club Show- Eastbrook Mall, 28th Street, Grand Rapids
- May 1-2 Kalamazoo Show, at the fairgrounds in Kalamazoo
- May 1-2 Cincinnati OH Show- Cincinnati Gardens, 2250 Seymour Ave. Sat 10am-7pm Sun 10am-5pm Adults \$5/1 day, \$8/2 day Age 6-15 \$1 park free
- May 14-16 Dearborn Show "Around the Great Lakes"- Dearborn Civic Center, Michigan & Greenfield Fri 5-10pm Sat 10am-8pm Sun 11am-5:30pm
- June 18-20 Lawrence County (Bedford) Indiana Show & Swap- Monroe County 4-H Fair Grounds, Bloomington Indiana
- June 26-27 MGAGS Seminar- Mid-Michigan Community College, Harrison MI
- August 9-15 Midwest Federation Field Trip Convention- Houghton MI

Duff and Son Quarry, Huntsville, Ohio

About 2 Miles North of Huntsville on Rt 117

Camping at Indian Lake. Motels in Bellefontaine.



Minerals to be found: Pyrite, dolomite, calcite, Sphaerulite, Fluorite.

Equipment Needed: Hard hat, hard toed boots, Safety glasses or goggles, 2-3 lb chack hammer, Chisels of various sizes large to small, Sledge hammer 8-10 lb, pairs to carry tools or specimens, boxes and wrapping paper.

Other points of interest worth seeing in this area include Zone Caverns, Ohio Caverns, Mac-O-Choo Cattle, Mac-A-Check Cheetaw.