

FEBRUARY 1971



GRAND RAPIDS
MINERAL SOCIETY

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The Grand Rapids Mineral Society is a Non-Profit Corporation affiliated with the Midwest Federation and the American Federation of Mineral Societies.

Meetings are held the second Wednesday of each month at 7:45 p.m. in the Multi-Purpose Room, East Building, Grand Rapids Public Museum. Summer meetings are at various parks as announced.

Membership dues are \$5. per year for a family, \$3. per year for a single adult, and \$1. per year for students under 18 years of age. Dues are payable to the treasurer. The year is from September 1 through August 31 of the following year.

Advertising in the GLACIAL DRIFTER is limited to a uniform size of one-third page at the rate of \$3. per issue, September through May only.

All material for publication shall be in the hands of the EDITOR no later than the Wednesday after the regular monthly BOARD OF CONTROL meeting which is the third week of the month.

Permission to reprint articles appearing in the GLACIAL DRIFTER is hereby granted, provided proper credit is given.

Member - National Bulletin Editors Association.

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EXCHANGE EDITORS - PLEASE NOTE: Address all exchange bulletins to:

Mr. Gordon Williams, Editor
2038 Parade NW
Grand Rapids, Michigan 49505

THE GLACIAL DRIFTER

FEBRUARY 1971

VOLUME 13 NO. 6

G.R.M.S. CALENDAR

February Meeting

Time: 7:45 p.m. - February 10, 1971

Place: East Building, Grand Rapids Public Museum.

Program: Dr. Richard Lefebvre of the Geology Department of Grand Valley State College will present his lecture and pictures of volcanoes. Of special interest should be the story of the "Surtsey" volcano that has recently erupted near Iceland.

Board of Control will meet Monday, February 15 at the Ted Duprey home, 3326 Badger SW, Wyoming

Mineral Study Group will meet Wednesday, February 24, at the Robert Beauvais home, 3308 Wilson SW, Grandville.

LOOKING AHEAD

March 10 - Regular meeting of G.R.M.S. Steve Tchozeski will give the program on the Erosion and Deposition of the Eastern Lake Michigan Shore Line.

March 13 - Set up day at Grand Rapids Museum for Annual Rock Show.

April 14 - Regular meeting of G.R.M.S. Open date on program

April 18 - Take down date for Rock Show displays

May 12 - Regular meeting of G.R.M.S. Dr. J. Cotter Tharon, Geology Department head, Hope College.

FEBRUARY FIELD TRIP

February 20 - Second Basement Field Trip. (see Chairman Rich's article for details)

FROM THE PRESIDENT'S ROCK ROOM

We are now well along in preparations for our Annual Rock Show. The winning name, submitted by Marguarite Peterson is "Rocks and Minerals - Keys To The Past!" The Board thought this very appropriate for the type of show planned this year.

In other actions the Board voted to purchase an electric typewriter at a slightly higher price than originally authorized. This has since been done; voted to have the February Field Trip on February 20, and none in March due to the show.

Show Chairman, Rich, requests that all members who are planning to put in windows please sign up by the next meeting, February 10.

About 30 members and friends enjoyed our first basement field trip on the 16th of January, when we visited the homes of Dr. & Mrs. Robert B. Smith, Mr. & Mrs. Casey Doornbos, and Mr. & Mrs. Robert C. Smith. The club wishes to thank them for opening their homes and furnishing refreshments to the group. The weather was mild and the specimens were A-1. If I were to pick one from each, I would say Dr. Smith's agate window, Casey's jade carvings, and June's volcanic material display, were tops. But it is difficult to pick when there is so much to choose from.

NEWS ITEMS.

Members are reminded that the club has a 'black light' for their use. It is loaned out a month at a time as our library books are. Do not pass up these club services.

Add to your calendar of events: "Archeology Here and There" Show at the Museum, February 6 through March 10.

The Indian Mounds Club has invited us to join their field trip to the Natural Storage Gypsum Mine on February 13. For the newcomers: take hammers, chisels and a good light, Coleman or electrical equivalent. The temperature is about 55° so a light jacket is enough if you are working. A head lamp is handy. Safety goggles are a must as on all field trip. The time is 9:30 a.m.

Safety hint: If your cnisel has a mushroom handle, grind it off!

February Board Meeting at the Ted Duprey's home, February 15.

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FROM THE EDITOR'S ROCK ROOM

. . . .and you wouldn't believe what it looks like! We are in the process of completely re-arranging our equipment and making some needed repairs. What a mess!

How about the announcement in show chairman Rich's article that we have the moon rocks for a week! Read his article for particulars.

The editor attended the planning session for the show, and has a few items of interest to pass on.

The cases on the north side of the museum will be given over to the geological periods of history and will be developed by using club members' donations. The show will be oriented toward Michigan but will by no means be limited to Michigan. Besides stressing the educational angle, the economic importance of the geological phenomena will be emphasized.

The window chairmen are:

- 1st case - Rich VanBeek, Introduction
- 2nd case - Dr. Richard Rose, Pre-Cambrian and Cambrian
- 3rd case - Larry Fegel, Silurian and Devonian
- 4th case - Steve Tchozeski, Mississippian, Pennsylvanian, Permian
- 5th case - June Smith, Triassic, Jurassic, Cretaceous
- 6th case - Marguarite Peterson, Cenozoic era

Elsewhere in this issue the President has made the announcement of the Archeological Show, Feb. 7 to March 10 at the museum. The "here" of the theme means just that and specifically the Norton Mounds. The "there" refers to the mid east Biblical archeology of the Jordan Valley. Alaskan archeology will also be treated in the show.

The regular meeting of the Archeological Society will be held February 18, at 8 p.m. at the museum, East Building. Mr. Frankfurtor, Museum Curator, will present the program, "Dating the Past." He will present the same program for one of our G.R.M.S. programs during our tenure at the museum.

Anyone in need of an L-shaped 3' x 6' jewelry showcase? If you are, or know someone who does need one, call Robert Beauvais, 534-3871 Area 616.

Now for the piece de resistance from the Editor's Rock Room. This cold blizzardy day, the Editor's Editor compiled a state by state digest of trip information along with a little reminiscing to accompany it. You will agree that she has a fine way of managing words. She manages me as skillfully--and I love it.

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Some people are like blisters, they don't show up until the work is done.

JANUARY 26, 1971 Today's beautiful blizzard blows my mind as surely as it just blew a sparrow from our feeder on an erratic flight from tree to fence top. The floor can stay dirty and the furniture can glare dustily--I'm busy living the storm, busy remembering another life, a childhood lived out in the north.

Winter wasn't a season. It was a Force, wild with winds and snow; glaring bright with winter sun on ice; blue, black, white star studded nights; and an occasional sly warm wind that turned the whole world into mush slush with kids laughing and crying out their snow ball fights, sparrows and crows wheeling and dealing, and the whole world "shoveling out."

And then again, and again, a storm.

Winds slapped our hilltop house; winds that gathered force across ice covered Lake Michigan--and slapped it so hard that the house shook or weaved with the storm. Snow piled against the front door until it could not be opened, and drifts snaked around into sheltered spots building up eave high, only to move and rebuild according to the wind's fancy, or until a warm spell anchored it until spring.

"Going out to play" was Life--exciting, exhausting, and sometime painful. Getting ready to go out was work. Long sleeved, long legged, drop door underwear (wool), with long stockings, black sateen bloomers, heavy knit wool petticoat and pink sateen petticoat, and a warm wool dress were only enough to keep us warm in the house. For outside play we added heavy black knit wool leggings over our shoes, then four buckle arctics - or boots to you! Two pairs of mittens, a heavy coat and cap, and the final twirl and knot of long scarf and we were cocooned for play in the worst storm. When our clothes filled with snow and froze on us, we gave up and went inside. Then the misery started. Feet and hands hurt. Boots and leggings wouldn't come off. Our clothes were wet, even--or especially--our long johns. And in a two pair of underwear day, that usually meant that we let them dry on us.

Yes--the fun of playing out, and the misery of coming in!

But even as today's storm calls me back to yesterdays, so also it promises of tomorrows. And with the tomorrows comes spring and the chance to get out and away from the city with car and trailer, the chance to be free of some of the confining limitations of today.

We call this freedom "rock hunting", altho you may call it swimming or even mountain climbing--or loafing in a hammock. But to us it is rock hunting. Hunting often leads to finding, and finding is fun too. So, today, as I watched and remembered, and felt the storm, I've also been thinking of tomorrows and rockhunting. I've been leafing thru the club scrap books. So many places to go. So many choices.

As few of you have seen the scrap books, I have made a partial listing of locations and materials to be found as given in clippings we have taken from exchange bulletins. You may find this list helpful in deciding your summer rock hunting locations. If you see

(continued from page 4)

something that interests you, ask for the scrap book and look up the material given.

This listing will not be offered again altho the scrap books will be kept up to date. Save this list for future reference.

ARIZONA - Tucson area - chrysacolla

Saddle Mt. - various materials (some fire agate)

Milley Ranch (near Petrified Forest) - wood

Gardner Canyon (we hope this is Arizona. Trip written up by Goldie Howard, Muskegon Club) - pink and cream banded onyx.

Geer Ranch - (south of Petrified Forest) - wood

ARKANSAS - Onyx Cave (near Eureka Springs) charge to dig for onyx

Buffalo River mining area (vicinity of "Old Rush", "Ralph", etc.) Maunee Mine - crystals, dolomite, quartz, sphalerite, calcite, Smithsonite

Russellville - fern fossils

FLORIDA - White Springs - Suwannee River agatized coral and agatized coral geodes

Venice - shark's teeth

LaBelle (Caloosahatchee River) fossils (several other fossil locations given)

GEORGIA - Oscar Robertson Farms, Ball Ground, Ga. (pay to dig) - stauro-lites and other minerals

IDAHO - Spencer - opal

ILLINOIS - Dresden Lake (power station)-fossils

INDIANA - Bean Blossom area - geodes (small, orange, solid)

Berry Quarry, North Vernon, Ind. - butterscotch calcite crystals

Shoals, Ind. - railroad track - blue barite

Corydon (quarry)-pink curved dolomite crystals, very clear calcite crystals

IOWA - Pints Quarry, Raymond, Iowa - calcite and fossils

Rockford - famous collecting site for fossils

Muscatine - agates

Morning Sun and August quarries - fossils

MICHIGAN - Charlevoix - fossils

Alabaster - U. S. Gypsum Co. - pink and white alabaster and gypsum

Bayport- Bayport Limestone Quarry - calcite crystals, chert, flint

Bellevue - Cheney Quarry - calcite and marcasite, fossils

Flat Rock, Huron River Quarry - calcite and celestite

Glenn - septaria

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MICHIGAN (continued) Grand Rapids - Grand Rapids Gypsum and Grand Rapids Natural Storage Mine - gypsum and selenite
 Grand Ledge - Grand Ledge Clay Products Co. - concretions with pyrite, sphalerite, leaf fossils
 Monroe - France Stone Co. - dog tooth calcite, colomite, some sulphur
 National City - National Gypsum Co., Michigan Gypsum Co. - alabaster and gypsum
 Norwood - anthraconite, marcasite concretions, pyrite along shore of Lake Michigan (west)
 Omar - County Road Quarry - calcite
 Rockwood - Michigan Silica Co. - blue celestite, yellow calcite
 Rogers City - Limestone Quarry - calcite and fossils
 Scofield - Michigan Stone Co. - calcite, celestite, sulphur
 Charlevoix - Medusa Quarry - fossils, good Petoskey stone
 Ishpeming and Negaunee Area - see clipping
 Copper Country - see clipping

MINNESOTA Pipestone Quarries (no collecting) - pipestone

MISSOURI - St. Louis Area - barite, limonite, drusy quartz, agate
 Meramec Caverns, Stanton (no collecting)

NEBRASKA - Ogallala - along Platte River - wood
 Hay Springs area - seed agate, some Fairburns, good agate and jasper
 Holmesville and Wymore, Nebraska Quarries - blue celestite, golden barite crystals, fluorescent calcite geodes
 Crawford - Fairburn agates

NEVADA - Battle Mountain - turquoise, \$5. to hunt dumps; good

NEW YORK - Herkimer - "Herkimer Diamonds"
 Moonstone Mine - Leibs M. Mine - Saranac Lake - pay

NEW JERSEY - Trotter Mineral Dump, Franklin.
 Also Museum - \$2. - Field trips - 216 minerals

NORTH CAROLINA - Many fee locations
 Franklin - ruby and sapphires - several locations - pay. Good. (Corundum mines)
 Newfound Valley - sapphires in old corundum mines - commercial.

OHIO - Medusa Quarry - Sylvania - fossils
 Pugh Quarry - Weston - marcasite, pyrite, calcite, barite, dolomite, fluorite
 Lime City Quarry - Lime City - blue celestite crystals with calcite, brown fluorite, ruby sphalerite (Maumee Stone Co.)
 Clay Center Quarry - Clay Center - bladed celestite, fluorite, and calcite crystals, fossils.

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OHIO - Brownsville - Ohio flint stone (pay)
Genoa - U. S. Gypsum Co. - celestite and fluorite
Maumee - Maumee Stone Co. - nail head calcite, fluorite, celestite
Waterville - France Stone Co. - calcite, celestite, selenite
Woodville - Ohio Lime Co. - celestite, calcite, fluorite,
strontianite

OKLAHOMA - Salt Plains Wildlife Area, near Jet - selenite crystals

OREGON - Prineville - thundereggs
Salem and North Oregon beaches - agates
Friday's Ranch, Madras - thundereggs

PENNSYLVANIA - Quarries near French Creek State Park:
1. Dyer Quarry - phrenite, bysolite, stilbite, calcite
2. Eastern Lime Quarry - dolomite, fluorite, calcite,
quartz
3. Kibblehouse Quarry - chabosite, epidismine,
natrolite, others
4. Cornwall Mine - small mineral and micromount material
5. French Creek Mine - calcite, chalcopryrite, hematite,
pink calcite, golden calcite, pyrite

SOUTH DAKOTA - Between Scenic and Interior on Highway 40 - green and
red fluorescent chalcedony, calcite crystals
Wasta - Fairburn agates and mudballs that contain shells

TEXAS - Big Bend area - fluorite

VIRGINIA - Amhurst - amethyst (fee)

WASHINGTON - Okanogan County - thulite (fee), serpentine, soapstone,
aventurine, onyx, rose quartz, blue agate
Ringold area - agate, fossils
Rattlesnake Hills - petrified wood. Fee.
Saddle Mountain - excellent wood. Fee.
Red Marble Quarry, near Valley - various

WISCONSIN - Elmo Zinc Mine, Cuba City - minerals, crystals, fossils

WYOMING - Wiggins Ford - Yellowstone area - wood
Wamsutter - turritella agate
"Double Cabin Camp", junction Frontier and Wiggins Creek -
wood in creek waters

Publishers Note: Sometimes areas are closed to the public on
short notice. Be sure to check around a little before going
to hunt.

MOON ROCK SAMPLE TO BE AT OUR ANNUAL ROCK SHOW!

That is the exciting news we have just received from the Governor's Office. We will have it for display during the first week of our show!

ROCKS AND MINERALS: KEYS TO THE PAST. This will be the theme for our Twelfth Annual Rock Show at the Museum this year. This describes perfectly the educational aspects which we are stressing. As described more fully elsewhere in this issue we are planning a club display depicting the geological periods. The board unanimously agreed that this theme, submitted by Mrs. Lawrence Peterson, is perfect. Congratulations!

And now for YOUR part, for everybody's part: If you have not already done so, we ask that you submit the entry blank, found elsewhere in this issue, as soon as possible. We want to provide space for all of our members who want to exhibit and also to other clubs who have exhibited in the past. But we do want to utilize all the space we have available. So we ask that you submit your entry by the next meeting on February 10 so that you will be certain of having space. If any space is still available after this date we will begin allocating it to other groups and we already have some requests. We don't want to make them wait till the last minute. So get your entry blank in soon!

Since our club exhibits will consist mostly of rocks and fossils "in the rough" as found in nature we hope that in the individual displays many of our lapidaries will show the artistic side--that rocks can be beautiful as well as informative.

And don't forget our club display. We are looking for material from all of you. Since we are surrounded by collecting areas for Devonian fossils (Sylvania, Arkona; Rogers City, Charlevoix, etc.) there will be no shortage of these but we need fossils from the other periods. If you do not know the geological period we can probably determine that if you know where it was found. But let us know what you have soon because the committee is already planning and we have to know what will be available. If you have any questions call any member of the committee, listed below and on the entry blank.

General Show Chairman - Rich VanBeek
Assistants - James VanVuren, Roger King
Publicity Chairman - Gordon Williams
Hosts and Hostesses Chairman - Emily VanVuren
Program Co-Chairmen - Bob and Ruth Beauvais
Demonstration Chairman - Arnold Wendt, Sr.

-Rich VanBeek

ONE MORE ITEM ABOUT THE SHOW.

One of the fine old traditions of our club is that we serve coffee and cookies to those who work so hard on opening and closing day to set up and take down the displays. So we need your contribution of cookies for one of those days. Since there is no special place to note this on the entry blank, please make a note on the bottom of the entry blank and let the committee know if you will furnish cookies either on set-up day, March 13, or take-down day, April 18. They'll be appreciated.

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AND ABOUT THOSE FIELD TRIPS.

Our next "Basement Field Trip" will be held on Saturday, February 20, beginning at the home of Mr. and Mrs. Arnold Wendt, Sr. at 439 Parkside Drive NW. Parkside runs north from Lake Michigan Drive a few blocks east of Wilson Avenue (West Beltline) in Standale. Then we will go to the home of Mr. and Mrs. Roger King at 1957 36th St. SW and then on to the home of Mr. and Mrs. Ted Duprey at 3326 Badger SW; both of these homes being in Wyoming.

Our first Basement Field Trip was a great success. We had a good turnout and everybody seemed to enjoy themselves as well as drool over the outstanding specimens and artistic work displayed.

If you weren't at our last meeting and therefore didn't receive a Field Trip Questionnaire, please read and note your choices on the one which is included in this edition of the Drifter. This is the only way we can be sure of planning trips which will please as many members as possible. Thanks for your help.

Field Trip Chairman,
Rich VanBeek

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IT WORKS! IT REALLY WORKS! To burnish those tumbled stones to a beautiful high gloss just do this: After removing stones from the final polish, wash thoroughly, then run another 12 hours or more (as you choose) in a solution of $1\frac{1}{2}$ cups sugar, $1\frac{1}{2}$ cups Breeze detergent and water to cover stones. You will have one of your more pleasant surprises.

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DON'T MISS THESE ARTICLES in Jan.-Feb. Earth Science. From "Rock to Cabachon" by Russell Greer of the Muskegon County Rock and Mineral Association and a Mid-West Federation Vice-President. And "Pink Copper Bearing Prehnite" by N. King Huber, geologist with the U. S. Geological Survey. From Jan. issue of Gems & Minerals, a tip from Mrs. Ford Hurd on pre-polishing Petoskey Stones.

-The Rockslide

Mrs. Ford Hurd is a member of G.R.M.S.

BOOKS

THE ARCHEOLOGY OF MICHIGAN by James E. Fitting The Natural History Press \$18.95

From the point of view of the rockhound the ARCHEOLOGY OF MICHIGAN might be seen as what our predecessors in our favorite land did with their rocks. It is to a large extent their handiwork in shaping rocks to their purposes that has left a record of their life styles.

Artifactual indications of man in Michigan go back to around 11,000 B.C. This was before the great lakes had stabilised their boundaries and levels from the glacial retreat and it is believed that much of the evidence of early man along the lake shores is now flooded by current lake levels. Lake shores and the lower ends of the state's major rivers have yielded the most traces of early human occupation. The familiar Bay City to Muskegon line has been an important boundary of climatic and soils type conditions that affected the modes of the occupying peoples.

Radiocarbon dating sets the time of early copper mining at around 2500 B.C. The radiocarbon system of dating has been important in showing the cultural sequence of prehistoric remains. Some of the many occupational sites have yielded thousands of artifacts to systematic archeological sifting. No stone chip, bone fragment or charcoal bit is too small for cataloging as part of the complete picture. Bone fragments can identify the animals that were used for food and charcoals show the tree species that provided fuels, fruits and nuts.

Styles of weapon points changed with the age as much as we see styles change now. Pottery and ceramics began to appear two or three thousand years B.C. Once the use of pottery spread, its style of shape and patterning became useful in cultural identification. Corn did not become an important diet item before 1000 A.D. The early peoples of Michigan probably never depended much on agriculture although they were gatherers of natural vegetation (cultigens) for food. Some agricultural products were obtained from peoples to the south by trade.

In historic Indian culture a similar trade pattern of furs for corn existed between Michigan and its southern neighbors. The fur trade gradually shifted to French and British European interests with the advent of the white man.

From the references in the book it would seem that much more archeological work has been done in Michigan in the past ten years than in all of Michigan's history. Groups from the University of Michigan, Michigan State University, Wayne State University and several local archaeological society chapters have been active in the last decade.

James E. Fitting, the book's author, is the grandson of Mrs.

(concluded from page 10)

Florence Klotz Nunneley of Portland. The author's gift of a copy to his grandmother has graciously been presented to the Portland District Library. A previous knowledge of archaeological terms and methods would be useful in getting the full impact of the book.

by RWG - via Grand Valley Lithogram

Another publication of interest to rockhounds has recently become available: "COLLECTING MINERALS IN MICHIGAN" by R. W. Kelley and H. J. Hardenberg. It is available FREE from the

Department of Natural Resources Publication Room
Mason Building
Lansing, Michigan 48900

And Mr. I. Kuehner, geologist with the Department of Natural Resources has indicated that the "GUIDE TO MICHIGAN FOSSILS" by R. W. Kelley is being reprinted and should be available before long.

--The Prospector via Illowa News Grinder

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ROCK SHOW

HOST - HOSTESS SCHEDULE

ROCK SHOW

<u>Sunday, March 14</u>	Mr. & Mrs. Cornelius Doornbos Joan, Daniel and Paul Miller
<u>Saturday, March 20</u>	Mr. & Mrs. Earl VanderWerf Mr. & Mrs. James DeZwaan, Sr.
<u>Sunday, March 21</u>	Mr. & Mrs. Ford Hurd Mr. & Mrs. Clyde Littlefield
<u>Saturday, March 27</u>	Mr. & Mrs. Lawrence Peterson Mr. & Mrs. Arnold Wendt, Sr.
<u>Sunday, March 28</u>	Mr. & Mrs. Henry Tchozeski and Family Miss Marie Spielmaker Mrs. Ruth Steele
<u>Saturday, April 3</u>	Mr. Richard VanBeek Mr. William Gorlitz
<u>Sunday, April 4</u>	Mr. & Mrs. James VanVuren and Family Mr. & Mrs. Ted Duprey
<u>Saturday, April 10</u>	Mr. & Mrs. Don Crabbs and Family
<u>Sunday, April 11</u>	Mr. & Mrs. Gordon Williams
<u>Saturday, April 17</u>	Mr. & Mrs. George Arnold and Family
<u>Sunday, April 18</u>	Mr. & Mrs. Roger King Mr. & Mrs. Peter Boogart

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It is not necessary that we should all think exactly alike, but we should all think.

LOCATIONS BEING CONSIDERED FOR FIELD TRIPS IN 1971

GRAND RAPIDS MINERAL SOCIETY

Please check those locations to which you would like to see the Grand Rapids Mineral Society sponsor a field trip. Although checking a location is not a commitment that you will go, we ask that you only check those which you would seriously consider going to. This will be used as a guide in planning next year's field trips.

- () 1. Arkona, Ontario. About 225 miles. Horn corals, brachiopods, crinoids, bryozoa, some trilobites. This would probably be in the spring which is reputed to be the best collecting time here.
- () 2. Pugh Quarry in northwestern Ohio. About 200 miles. Calcite crystals (some large)
- () 3. Grand Ledge, Mich. About 50 miles. Fossils of vegetation, branches, some leaves, lepidodendrons, coal, sulphur.
- () 4. Charlevoix, Mich. About 200 miles. Brachiopods, trilobites
- () 5. Trip by chartered bus to the Chicago Museum of Natural History (formerly the Field Museum). Probable cost: about \$7. per person for bus fare.
- () 6. Guided tour, probably by bus, focusing on the glacial geology of the Grand Rapids area. We would have pointed out to us such things as former channels of the Grand River, moraines, kettleholes, deltas, former shorelines of the glacial ancestors of Lake Michigan, channels which formerly carried glacial meltwater, outwash surfaces, etc.
- () 7. Rogers City, Mich. About 250-275 miles. Trilobites, brachiopods, cephalopods.
- () 8. Beaver Island, Mich. About 200 miles. (Would be a rather expensive trip. Boat fare \$5.50, fare for cars .25. The Robert Smith's may be able to provide some lodging and auto transportation on the island.) Jasper conglomerate, epidote, copper ore, jaspilite (these are glacial deposits), trilobites, brachiopods, chain coral. Not all at one location.
- () ⁹Dundee and Maybee, Mich. About 150 miles. Sulphur, fluorescent aragonite, celestite
- () 10. Brown County, Indiana. About 350 miles. Geodes and fossils
- () 11. Terre Haute, Indiana. Fossils.
- () 12. Illinois (Coal City area) About 200 miles. Fern fossils

Some of these are uncertain as to whether field trips are permitted. If interest is indicated we will investigate. Number going from your family ()

signature

Midwest Federation's NEWSLETTER



Published monthly except July and August as a service to member clubs
All news, articles, subscription orders and requests for information concerning publication
should be sent to P.O. Box 1130, Des Moines, Iowa 50311

Issue No. 112 - February 1971

1971 CONVENTION AND SHOW

Come to Mansfield, "The Fun Center of Ohio", July 22-25. The show committee wants this to be an enjoyable show with something for all the family. On the serious side, however, there will be some very informative programs and a number of excellent educational displays.

Individual exhibitors, either competitive or non-competitive, will be given free admission. This does not apply to club exhibits. There will be an area for "come and go" cases. These exhibits, however, will not give free admission.

The roster of dealers is complete and there will be 30 of the top dealers from coast to coast covering all types of material and equipment. Cafeteria food service will be available in one of the fairgrounds buildings and camping is permitted on the grounds.

Packets of material will be sent to clubs in February. These will include flyers, advance registration forms, exhibit entry blanks, and information on accommodations.

Watch the Newsletter each month until show time for additional information. - B. F. Parr, chmn., 1488 Marion Ave. Rd., Mansfield, Ohio 44906

OUR STAMP PROGRAM

The Midwest continues to help saving lives by asking its member clubs to save used postage stamps. The used stamps are turned into cash to provide food for hungry children overseas. Each dollar can provide up to 220 pounds of food.

Cut stamps from envelopes or paper leaving about 1/4 inch margin of paper around the stamp. Count the stamps into bundles of 100 and mail them together with your name, name of your club and your complete address to Mrs. W. H. Steinbrenner, 2813 Patricia Drive, Des Moines, Iowa 50322.

Please do not send torn stamps or straight edges and commemorative stamps are most desirable.

IS YOUR CLUB PARTICIPATING IN
THE SCHOLARSHIP PROGRAM?

UNIFORM RULES SUPPLEMENT

A copy of the Uniform Rules Supplement is being mailed with this issue of the Newsletter to all officers, members of the Executive Committee and all members clubs. Please insert this sheet in your Uniform Rules (RED) book.

1971 WINNER OF AFMS SCHOLARSHIP AWARD

Dr. Eugene S. Richardson, Jr., of Gurnee, Ill., has been voted the American Federation of Mineralogical Societies Scholarship Foundation Award for 1971. The Federation, which has well over 60,000 members, presents this Award annually for outstanding achievement in the field of Earth Sciences.

Dr. Richardson has been Curator of Invertebrate Fossils for Field Museum of Natural History since 1946. During that interval he has written many articles for the Field Museum publications, and for other paleontological journals. He is advisory editor of paleontology for Earth Science Magazine, and an Honorary Member of the Midwest Federation of Mineralogical Societies, the Lake County Gem and Mineral Society (Waukegan), the Earth Science Club of Northern Illinois (ESCONI) and the Chicago Rocks and Minerals Society.

Pen State University awarded him his M.S. Degree in 1942, Princeton his Ph. D. in 1954.

No Midwestern Paleontologist has helped the amateur as much as has Dr. Richardson. He regularly and frequently lectures to Chicago area audiences and works closely with local club members in their search of the strip coal mining area southwest of Chicago which has produced so many spectacular paleontological finds.

In behalf of the Foundation he will select schools that will receive grants from the Foundation to assist six graduate students for two years each in pursuing their work toward a Masters or Doctors Degree in any of the Earth Sciences. -W. H. deNeui, President

ZIP CODE CORRECTION

Our First Vice President, Bernard Parr, 1488 Marion Avenue Road, Mansfield, Ohio has had his zip code erroneously printed on the MWF stationery and in other publications. His correct zip code number is 44906.

A PLACE FOR MINING AND INDUSTRY

With all the current emphasis on ecology and conservation, it would be too bad if people did not realize that there is a place for mining and industry," writes Calvin George, chairman of legislation and conservation for the Midwest Federation. In support of this observation, he cited two recent articles. Quotations by permission from the articles, the first from the April Ore Bin, publication of the Oregon Department of Geology and Mineral Industries, and the second from the March Missouri Mineral Industry News, published by the Missouri Geological Survey, follow:

The sand and gravel industry in Oregon, being concentrated in the Willamette Valley near the population centers, is becoming hard pressed to provide the raw materials needed to build our highways, bridges, and airports. There is a potential shortage of this valuable product for the coming years, because many of the better deposits are being overrun by housing or other incompatible developments. What happens to a gravel pit after it is mined out? Can the land be reclaimed or put to other uses?

We are printing the following editorial which recently appeared in the Missouri Mineral Industry News:

Mineral deposits are where you find them; sometimes they're in convenient places, sometimes not, but wherever they are they can only be recovered by mining. Once highways, homes and industries are built over mineral deposits they are lost and must be sought elsewhere. The Geological Survey has long advocated sequential use of lands underlain by mineral deposits. First, mine the minerals with a plan toward reclamation and reuse of the land. Second, reclaim the land so that it may well yield more than was gained from the mining. And third, reap the benefits in increased tax revenues from land that might have been rendered worthless without forethought.

Is this practical? The city of Mexico, Mo. has schools built on land that once was a "worthless" clay pit; the clay that was once there financed the reclamation and part of the school construction and the upbringing of many of the kids who go there, while serving the nation in such capacities as boiler linings and launch pads for space vehicles. Last month the Nation's First Lady toured a reclaimed coal strip mine (in Illinois) that will eventually bring its developers more money than the coal brought the mining company. Underground mines in Kansas City and Springfield provided cheap concrete aggregate and road stone for many years; now the mined space houses instrument factories, computer centers, warehouses and terminals that will provide profit for the owners and taxes for the cities far in excess of the value of minerals that were once there, and are now used.

The Columbia (Mo.) coal mining problem is an ex-

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in 1971

A BOOK FOR FOSSIL COLLECTORS

"Record In Rock", a handbook of the Invertebrate Fossils of Nebraska by Roger K. Pabian and illustrated by Sally Lynne Heald. Has 99 pages, maps, tables, drawings, color plate, bibliography. Write University of Nebraska, Conservation and Survey Division, Lincoln, Nebraska. Price is 50¢ (52¢ in Nebraska).

This paperbound book is a must for every fossil collector in the midwest. The skillful presentation and the excellent drawings are of infinite help in the identification of all fossils less than 325,000,000 years old. The appendix listing all the fossil invertebrates, plants, and fishes that have been found in the state, with a complete list of references to the primary literature on each genus, makes this a truly scholarly book. But the clear, concise language makes this a publication for anyone who really wants to learn in this area - young or old, amateur or professional.

cellent example of how mining's poor public image and the public's uninformed outlook combine to saddle the citizens with higher utilities costs and lower tax revenues from unattractive developments. Some time ago, Peabody Coal Co. leased acreage outside Columbia for strip mining of coal. Subsequently the city annexed the area and immediately a hue and cry arose to stop the proposed stripping.

It happens that Peabody supplies Columbia City Utilities and the University with coal, and the beauty of this particular coal field lies in its proximity to the coal-fired electric generating plant. The savings in trucking costs can be passed on to the people of Columbia in the form of lower electric bills.

But this is not the only reason for advocating coal stripping Columbia. The technology is already available for reclaiming mined lands; it is now possible to plan mining in a way that will give an end product of attractive landscape with recreational lakes, etc. that can be a part of the normal mining expenses. The great shovels that expose the coal need not be the monsters they've been portrayed as; people made them, people can control what the machines make.

We can think of no better way to have one's cake and eat it too. Why not work out a plan with the mining company for imaginative reclamation of the mined lands?

MRS. OLIVER ROSKAM

The Midwest Federation extends its sincere sympathy to Oliver Roskam in the death of his wife Betty Elizabeth on December 25th. Oliver and Betty were co-chairman of the Bulletin Editor's committee.

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Grand Rapids Mineral Society
Annual Gem and Mineral Show

ENTRY BLANK

March 13 - April 18
G. R. Public Museum

Again the members of the G.R.M.S. have an opportunity to show the community what "rock hounds" do. We can share with others our knowledge and our prized possessions, and at the same time interest others in our hobby. There will be room for a single piece or a complete display. You name it and the Committee will fit it into the show.

NAME _____ PHONE _____
ADDRESS _____

This year we are planning a new feature. The cases along the north side of the hall will be used for a cooperative club display depicting the geological periods. The committee working on this will be Larry Fegel, Mrs. Lawrence Peterson, Dr. Richard W. Rose, Mrs. June Smith, Steve Tchozeski, and Rich VanBeek. We invite all members to loan specimens for this display. The rest of the cases will be available for individual exhibits as in former years. We urge you to get your entry blank in early!

I have the following specimens for the club display: (please indicate the kind of rocks and/or fossils and the geological period or where found.)

SPACE REQUIREMENT FOR AN INDIVIDUAL EXHIBIT _____
(please indicate full case or space needed)

Type of exhibit: Mineral () Lapidary () Fossil ()
Geological Oddity () Educational () Other ()

I will help. . . . Lapidary Demonstration Thursday () Saturday ()
Sunday ()

Take my turn as host or hostess Saturday ()
Sunday ()

If you prefer not to remove your display on Sunday, April 18, you may do so on the evening of Tuesday, April 20. In that case, please indicate here ().

Since the club will not be able to insure exhibits you should arrange for this yourself if you are displaying something which you feel must be insured.

Please fill in this blank as soon as possible and give or send to

Rich Van Beek, 1227 W. Leonard St., Grand Rapids, Mich. 49504
Phone 459-3903