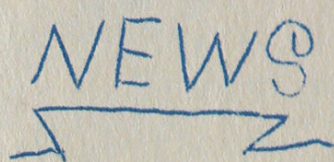


CENTRAL MICHIGAN ROCKHOUND NEWS



Vol. 4

JUNE 1960

No. 6

Affiliated with the Midwest Federation.

Meeting Place: Walter French Junior High School Cafeteria.

Third Thursday of each month except, July and August.

Dues: \$2.00 annually. Students under 18 years \$1.00 annually.

OFFICERS

PRESIDENT- Clarence Kirkby, 1401 Greenview, East Lansing, Mich. ED 2-6809
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EDITOR- Raymond C. Brown, 2116 Quentin Ave., Lansing, Mich. IV 2-6728
EDITORIAL ASSISTANTS- Norman Kunkel, Mrs. Philbrick, Ethel Rathke.

"PRESIDENTS MESSAGE"

May the summer months be filled with all the pleasures that a Rockhounds dream could hold! A Field Trip Convention in a Rockhounds Paradise, Good weather, good collecting and safe driving. We will see you at the June 16th meeting and again at Ishpeming.

Clarence Kirkby.

" PROGRAM JUNE 16th "

Mr. Dave LeMone, a candidate for the Doctor of Philosophy at Michigan State University, will talk on mineral identification at the June meeting. Mr. LeMone studied at the New Mexico School of Mines. He worked his way in part, through school by collecting minerals on the mine dumps in the Southwest.

This should be an interesting meeting. Bring your specimens for identification.

Wm. J. Hooker

"NEW MEMBERS"

We wish to welcome these new members:

Mr. Fred Williams, Box 75 D Rt. #1, Lansing, Michigan

Mr. Bill Hiser, 2260 Traver Rd., Ann Arbor, Michigan

Mr. Timothy Dean Hine, (St.) 1444 Roselawn St., Lansing, Michigan

Mr. Layton J. Hawes, 1161 West M-78, Morrice, Michigan
Katherine Hawes

Suzanne Rynas, 954 Cowley Ave., East Lansing, Michigan

Jo. Rynas (St.)

Peter Rynas (St.)

Mr. Robert Hansor, 26545 Taft Road, Novi, Michigan
Daphene Hansor

Zoe Bennett, 4964 Algonquin Way, Okemos, Michigan

Mr. Thomas Malkin, 5839 Lake Lansing Road, Haslett, Michigan
Mildred Malkin

"LAST DAY"

JUNE 15, is the LAST DAY for reservations at the ISHPERING Field Trip Convention.

This is the LAST BULLETIN until SEPTEMBER. SEPTEMBER meeting on the 15th.

To visit the Kalamazoo Geological and Mineral Society: Annual Picnic.
Time: June 12th -- anytime after 10:00 AM.
Place: County Center -- Take Highway 12 between Battle Creek and Kalamazoo to Junction 31, turn left about 1/2 mile then turn right 7/10 mile to County Center.
Fun for all: Swapping - Displays - Items to buy.
Bring your lunch and rub shoulders with your neighbor rockhounds.

More details and information on another page in this bulletin.

"EMBLEMS"

Arm bands or patches with the emblem of our club is yours for only 40 cents each. Get them while they last from Norman Kunkel. The emblem was designed by Mrs. Norma Stuck. If you haven't seen it yet, it has the State Capitol Dome and the Club Name. It is sure a beauty Thanks to Norma.

Car Emblems A. F. M. S. , American Federation of Mineralogical Societies are available from Laura Kreps for only 50 cents, car emblem includes brackets and screws for easy mounting to the trunk lid or bumper.

"NOTES about MEMBERS"

Mrs. Agatha Dravenstatt had to resign as club Secretary because of illness. We are sorry to loose her help but hope she is better soon.

Mr. L. L. Kenyon 425 Division St. East Lansing is back on our mailing list.

Change of Address: Mr. John W. Morrman can be found now at 911 West Michigan Ave., Lansing, Michigan IV 4-3681

"ROCKS FROM THE COTTOMS"

Howard and Nina Cottom just couldn't find space in the moving van for all their belongings and Rocks too. So they have left behind a part of their collection for the club and club members. There will be some for everyone so bring a box or sack to carry some home from the next meeting.

The collection consist of - Chalcedony - Marcasite - agate - chert - jasper (good for tumbling) - Quartsite - granite - coral fossils - etc. Thank you Howard and Nina and Happy Hunting to You in the State of Idaho.

"BANCROFT, ONTARIO MAPS"

Maps & Key of directions to one of the nearest good collecting areas. It's only 476 miles from Lansing. The cost of these valuable Gem collecting maps & Keys will be only 50¢ which will cover the materials.

We all owe a big vote of thanks to the Meyers Family and Ruth Gross who gave their time to reproduce these copies. Pick up copy from Laura Kreps

"SEPTEMBER "ROCKHOUNDS" SEPTEMBER

-Rock Display Table-

SEPTEMBER

NOTICE** To the following people for the month of SEPTEMBER: You are asked to bring crystals, rock minerals or fossil specimens to the first meeting in the fall (SEPTEMBER). The DISPLAY TABLE has been of great interest and we are sure all who have seen the displays have enjoyed them, so even though there will be a summer recess don't forget we will expect to have many more fine showings. YOUR DISPLAY should be something you have ACQUIRED, FOUND, CUT & POLISHED or DONE SOMETHING TO during the past year, it should be IDENTIFIED, LOCATED and have YOUR NAME ATTACHED so that anyone who is interested can ask you about it.

Richard Stevens
Dr. Harold Stonehouse
Harold H. Stuck
Earl J. Turner
Mrs. Emma Wedel
Dr. Theodore Werle
John D. Wilcox
Jesse Williams
Suzanne Rynas
Robert Hansor

Mrs. Mildred Wilson
George J. Westcott
Russell Kelso
L.L. Kenyon
Fred Williams
Bill Hiser
Timothy D. Hine
Layton J. Hawes
Zoe Bennett
Thomas Malkin

EDITOR'S NOTE - All members of the family are included to display their findings, to save space we have listed only 1 person from each household.

Several new people have been added to our club and their names appear on the above list. We welcome you and hope you will show your specimens whatever they may be, at the September Meeting.

"ROCK DISPLAY FOR JUNE"

"A REMINDER"

REPEATING the list for the JUNE display:

Fred T. Oding
Inez Olmstead
Majel Parks
James D. Patterson
Harold R. Paulson
Gerald Pearson
Allen Philbrick
Ernest Potts

Robert L. Powers
Cliff Prevey
Ethel Rathke
Louise Rees
Frank Rickard
David Service
Jeanette Sloan
Irene Smith

"CORRECTIONS PLEASE NOTE"

DIRECTORY CORRECTIONS ** We regret misspelling the name of Mr. Frank L. Rickard in the Rockhound Directory.
Mr. Harry Maran maybe telephoned through the Lansing Exchange MI 5-0076
PARDON US, sorry we goofed. EDITOR.

"SHAME ON YOU"

1. If you have not donated a specimen for the club display.
2. If you have not loaned a specimen for the club display.
3. If you haven't given second glance at your collection for that show piece the display committee has asked for.
4. If you have not visited the club display which is now at the State Capitol Building.

WE NEED DISPLAY MATERIAL NOW! !

Our club acquired several display cases last spring for the purpose of displaying our club specimens in public buildings where they maybe viewed by many people and to create public interest in our hobby. We must have enough material to rotate the displays each month to create new interest and attract the public.

So far the materials have come from a few families. Will you bring your specimens (donate or loan) to the next meeting. Make it one you will be proud to have your name on. OR you may be called on in September to assist the display committee on maintaining these public displays.

What specimens will qualify? Any item pertaining to our hobby, of good quality that would be worthy of carrying your name. Bring the specimens and let your display committee be the judge.

Examples of specimens needed are as follows:

- Quartz Crystals --Did you ever see Bill Hookers' Collection.??
- Chrysocolla -- I have never seen one like Leon North has.
- Blue Celestite -- John Wilcox has a prize.
- Dog tooth Calcite -- Fred Gasche has some beauties.
- Galena Crystals -- Bryon Meyers got a nice one.
- Halite -- Who got the best specimen?
- Selenite -- I know Kirkbys could spare one .

Lets shake the bushes this time. .

Your Display Committee.

"WHAT KIND ARE YOU ?"

Are you an active member the kind that would be missed?
Or are you just contented that your name is on the list?
Do you attend the meetings; and mingle with the flock!
Or do you just stay home and criticize and knock?
Do you take an active part to help the work along?
Or are you **satisfied** to be the kind that just belongs?
Do you ever voluntarily help at the guiding stick?
Or leave the work to just a few and talk about the clique?
Come out to the meetings and help with hand and heart,
Don't be just a member but take an active part,
Think this over member you know right from wrong;
Are you an active member or do you just belong?

Source Unknown, copied from a local paper.

Frank Mortimer

"THE OJIBWAY SALT MINE"

May 30th was a red letter day for the Rockhounds. Threats of rain did not daunt the members for they expected to be 1000 ft. under ground in Ontario. Among those who went were - The Kirkbys, The Kreps, Eckhardts, Colemans, Stevens, Eustrons, Fred Gasche, The Pattersons and Ethel Rathke, and a guest, Manuel Diaz recently from Panama, there were however several club members who had to stay above ground and wait because the regulations of the Canadian Rock Salt Co. could not allow any under sixteen to enter the mine. In spite of that there were about 30 who did go down to ride in the gondolas over the clean white floor of the tunnels, until in one "chamber" they were shown a wonderful deposit of salt crystals to which they helped themselves freely. Some of the specimens they obtained had bubbles enclosed, which could be seen to move as the specimens were turned.

The Company gave each adult a booklet on the history of salt and of the mine. Some salt is taken out in bulk to be processed; another section is worked by forcing water down to dissolve the salt into brine and the brine is pumped up and moisture removed by machinery and treatment. It is packaged under the name of "Windsor Salt". The Company also gave us a certificate on which our names, each on a separate form, had been artistically inscribed, Stating (for example) that Ethel Wheeler Rathke has been awarded the Honorary Title of Canadian Salt Miner for having made the trip to examine the mine and its operation.

Since there were not quite 30 of us, we could ride along the tunnels in the gondolas; if there had been more than 40, we would have had to walk. We obtained excellent specimens of clear crystals of salt and are enthusiastic over the cordial treatment accorded us by the mine personal.

Ethel Wheeler Rathke

"Hobby Lobbyist"

By Harriet Labarre

Though Henry invited us
Over to sup,
He's riding his hobby
And won't let us up.
We've viewed all his minerals
(Each with its label),
Spread over our laps
and the dining-room table;
We droop and we wilt
While Henry assort
His mica, his garnets,
His rosy quartz;

And ever our hunger
Dims our affection,
Till we're ready to eat
His entire collection.
How we yearn for a host
Who hasn't a stock
Of shale from Nevada,
Of rock from Bangkok,
Which he forces on guests
In shoals and in showers,
For hours and hours and
Hours and hours.

Tri-County Rocks & Minerals
Jennie Meade

Laura Kreps.

"MIDWEST FEDERATION LETTER"

BIG - FIELD TRIP CONVENTION

JULY 1- 2 - 3 - 4th, 1960

ISHPEMING, MICHIGAN

As all of you who have attended these events in the past know, this is the high-light of the rocks and minerals collecting year for the Midwest. This is the time for seeing what has been done in all the earth sciences for the past year, but more than that it is a time for renewing old friendships for making new friends, and having a grand "ole" time.

This year you will be coming to Ishpeming, Michigan for your convention as guests of the Ishpeming Rocks and Minerals Club, and we want you to know that everything that is humanly possible has been done to make your visit an enjoyable one.

For many of you this will be your first trip to the Upper Peninsula of Michigan. We hope you will like it and us. We have a great many minerals here, some of them quite common and some quite rare. We hope that you will be lucky and find some of the really exceptional ones.

Our club has a small mineral museum and here you will see some of the fabulous kidney ores, grape ores, goethite, pyrolucite, and many other outstanding minerals from this area and the Copper Country.

There are crystals that will make you gasp in wonder, from the fine hair-like selenite to the large aphrosiderite garnets. Many of these minerals are still found on the old dumps of the area, but they are not come by easily. It takes a lot of patience and digging to uncover the good ones so come prepared to work. Even though you may not find any of the really rare ones you can rest assured that you will not go home empty handed.

There are a great many minerals that are readily available such as jaspilite, specularite, magnetite, verde-antique, serpentine, pyrite, aphrosiderite garnet, jasper, kona dolomite, hematite crystals the equal of the Cumberland, England material and many others too numerous to mention.

So, plan to spend the July 4 weekend at Ishpeming to have a really good time, collect good minerals, and make new friends. Bring trading goods, a smile and a appetite for friends and food and rocks.

So-long, see you soon.

Bernie Dooley
General Chairman
1960 Field Trip Convention
of Our Midwest Federation

Ishpeming - "THE ROCKHOUNDS PARADISE" and how!

"NOTICE AN INVITATION"

Dear Fellow Rockhounds and Other Lovers Of Natural Science:

The one hundred and seventy members of the Kalamazoo Geological And Mineral Society of Kalamazoo, Michiga, now in it's third year of existance welcomes you to participate in our Annual Picnic and First Rock Show, known as "ROCKFEST". It will be held in a room in the County Center Building at the Kalamazoo County Fair Grounds on Sunday June 12, 1960. The hours are from 10:00 AM to 6:00 PM. Admission Is FREE.

The purpose of this "ROCKFEST" are three-fold. One, to help increase the interest of the members in collecting, polishing and exhibiting; two, to interest more people of the Kalamazoo Area in the Earth Sciences; Three, to give members of our club and interested members of other clubs a chance to do some swapping. The swapping will have to be done outdoors in the parking lot due to lack of room inside. However, if it should rain some of the exhibits will be removed later in the afternoon and room made to do it inside on a smaller scale.

Inside, five dealers, who are members of our club, will display and demonstrate the latest in lapidary equipment and accessories. They will also have material to sell. To help defray expenses, the club will have grab bags for sale. These are filled with crystals, minerals, fossils, etc. They will sell for 25¢, 35¢, and 50¢. The value of these bags is guaranteed to be at least that of the selling price with most of them two or three times the selling price. Needless to say, these are ment for the children and persons just starting to collect.

We also plan to hold a silent auction which will start at 2:00 PM and continue until we run out of material, bidders or time. WE have a considerable amount of minerals, agates, and jewelry already donated with still more to come in. Although we donot claim anything outstanding, we feel that the quality of this material is very good.

As far as the picnic is concerned, Tables are scarce and quite aways from the building. We would suggest that you plan to eat in your cars or else bring you table and chairs or blanket to spread on the ground. Parking space is ample. We will offer, for the convenience of those who want it, coffee, pop and bakery rolls for sale at a table in the building.

There will be an exhibit of minerals, lapidary work, fossils and a Jet collection by members of the club in the building.

The Kalamazoo County Fair Grounds is located on East Lake Street and is visible on the North Side of US 12. The best way to reach Lake Street is to go to Portage Road and go North from US 12 until you reach Lake Street (2 or 3 miles). Then turn East and continue for another mile or two. Look for arrows on all highways leading to the Grounds on East Lake Street. Plan to attend and spend an enjoyable afternoon with the ROCKHOUNDS of KALAMAZOO.

Sincerely yours,

Spencer Van Valkenburgh,
President

" FIELD TRIP NOTES"

Our annual May picnic, at Harry Maran's, was not overcrowded. The weather was not ideal picnic weather but a few of our more hardy members turned out. Somehow one seems to get a lot of enjoyment out of being with others who's interests are the same as yours so this being the case we did enjoy the picnic and the association with fellow rock hounds. Thanks Harry for letting us use your back fourty and for all your rocks we carried away.

SILICA, OHIO TRIP

After seeing Frank and Ila Rickerd's display, at the May meeting, of the wonderful trilobites they got at Silica, Ohio I thought there would be a lot of interest in a field trip down there. Well, I guess there was a lot of interest but again it was by a selected few. The collecting of trilobites must have been good because Gerald Person & family & the Rikerd's were down there on the May trip and went again on June 4th. That makes several trips to this spot for Frank & Ila so I guess they know a good spot when they find it.

THE CANADIAN ROCK SALT CO. LTD. OJIBWAY, ONTARIO

Our May 30th trip to the salt mine was a great success. There were about twenty five of our members to make the trip down in the mine. Nearly every one arrived early and were waiting to go down. We went down in the mine in an elevator. The mine shaft is approximately 1000 feet deep, the elevation of the surrounding area is approximately 573 feet above sea level so we were 427 feet below sea level when we were down in the mine shaft. Sort of makes one feel funny to realize he is so far below sea level without even a diving mask. That is probably further below sea level than many of us will ever be again. Even if you go to the deepest spot in Death Valley, California you would only be 282 feet below sea level.

Before we went down into the mine each of us was given a card to fill out, giving our name and address then we were given helmets and smocks to wear. Most of the salt in the mine is of a commercial grade, too many impurities to use for table or cooking use. After touring the biggest part of the mine were were taken to one part where there was about a two foot layer of a high grade crystalline salt and were told we could have all we wanted of it. Needless to say we all carried out about all that we could handle. Those of you who were fortunate enough to get some of this salt should examine each piece closely to see if you can find any water bubbles. The Kirkby's found several pieces in their collection. When we came out of the mine we were very surprised to find that a certificate had been made out for each of us awarding us with the honorary title of CANADIAN SALT MINER. Quite an unexpected honor. We were also given a booklet telling all about the salt mining history and operation. We all enjoyed it and were glad we went.

JUNE TRIP? NONE !

Due to our late trips in May, graduations and everything coming up in June plus the Ishpeming trip everyone is planning for the first of July we have not planned any trips for the month of June.

We hope to have big things planned for you when we all get settled down after our summer outings. Hope you have lots of fun and good hunting and come back safely. James Patterson.

We know something of the origin and properties of igneous and sedimentary rocks, occasionally these rocks are changed by heat or pressure or the action of hot waters well below the surface of the earth into METAMORPHIC rocks. Weathering, though it changes rocks, is not a type of metamorphism. The act of metamorphism, of change, takes place because of an application of heat or pressure or the action of hot water, either separately or together, to rocks. This may happen when rocks come into near contact with a mass of hot igneous rock intruded into them, when contact metamorphism results. It may also happen when rocks are folded into the depths of the crust, when regional metamorphism results. There is generally not too much difference between rocks that are the result of contact or regional metamorphism, except as to their relationship to intruded igneous rocks. The differences that are found between metamorphic rocks depend on the nature of the original rock and whether they have been changed by heat, pressure or hot water ~~separately~~ or together. Thus SHALES subjected to pressure alone, generally on a regional scale, become PHYLLITES, and with more pressure and some heat become SCHISTS. When hot waters are involved we may get many new minerals in the schists, or perhaps the minerals that are present are recrystallized into larger grains and CHLORITE SCHISTS, BIOTITE SCHISTS, TALC SCHISTS, GARNET SCHISTS etc. Pressure alone has very little effect on LIMESTONES - they may be recrystallized to MARBLE, though generally we consider that heat has also been involved here. The action of hot water, generally considered to have come from an adjacent igneous intrusion and often containing silica, will change the calcium carbonate of the limestone to calcium silicates such as DIOPSIDE, TREMOLITE, WOLLASTONITE, and others. Intense metamorphism of sediments and not so intense metamorphism of igneous rocks results in the formation of GNEISSES.

Original Rock Type	Amount of Metamorphism		
	Little	Medium	Great
shale	phyllite (P)	schist (P,H) schist with new minerals (W)	gneiss (P,H or W)
sandstone	*	quartzite (P,H)	gneiss (W - P or H)
limestone	*	marble (P,H or H,W)	gneiss (P,H,W)
igneous rock	-	gneiss (P,H)	gneiss (P,H - W?)

* perhaps some recrystallization giving a coarser grained rock.

A little amount of metamorphism generally means regional metamorphism or furthest away from an igneous intrusion in contact metamorphism. A medium amount of metamorphism indicates contact metamorphism or regional metamorphism and a great amount of metamorphism indicates regional metamorphism after deep burial and gneisses are generally found in areas of mountain building.

Besides those minerals already mentioned, the following are typical of metamorphic rocks:- Andalusite, Sillimanite, Kyanite, Staurolite, Epidote (sometimes) .

ROCKHOUNDS may be defined as METAMORPHOSED PEOPLE the longer you are a rockhound the more metamorphosed you get.