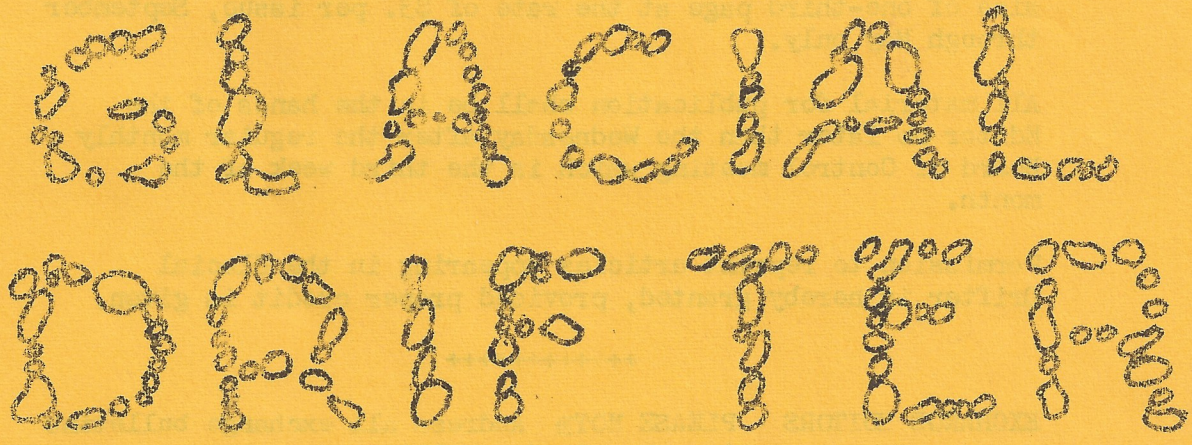


The



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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 7:30 p.m. as announced in the Glacial Drifter. 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 16 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.

+++++

EXCHANGE EDITORS - PLEASE NOTE: Address all exchange bulletins to: Mr. Gordon Williams
2038 Parade NW
Grand Rapids, Michigan 49505

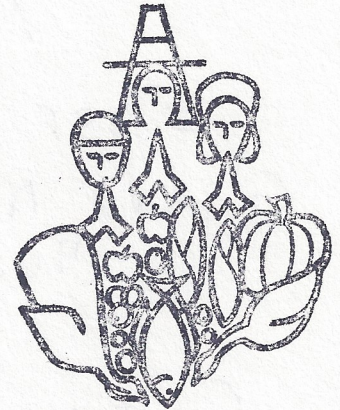
the Glacial Drifter

Volume 14 No. 3

NOVEMBER 1971

G.R.M.S. CALENDAR

- November 10 - Annual Silent Auction
East Bldg., Grand Rapids
Public Museum - 7:30 p.m.
- November 13 - Basement Field Trip
(details inside)
- November 15 - Board of Control at Rich
VanBeek's, 1227 W. Leonard
- November 24 - Mineral Study Group at the Ferguson's
- December 3 - Annual Christmas Pot-Luck at the Museum
- January 12 - Regular Meeting at the Museum
- January 15 - Chicago Field Trip to Lizzadro or Field Museum
(details inside)



thanksgiving



Let us be thankful that there
still is sunshine, that we can
glimpse the blue of the sky
and in our onward way, continue
to look up.

Let us be thankful for friends
with kindly smile and cheerful
words.

This is a time for grateful
thanksgiving!

-Author unknown

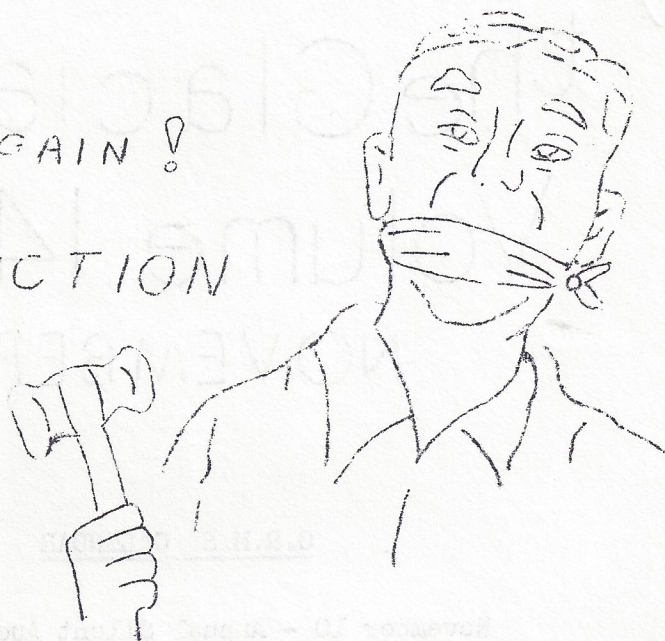
IT'S THAT TIME AGAIN!

SILENT AUCTION

NOVEMBER 10, 1971

7:30 PM

EAST BUILDING
GRAND RAPIDS PUBLIC
MUSEUM



CUTTING MATERIALS — SPECIMENS

CONNOISSEUR'S TABLE

PEBBLE PUP'S TABLE

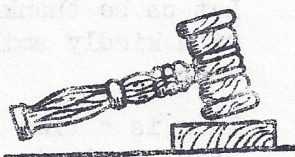
DONORS MAY HAVE 50% RETURN IF DESIRED

REFRESHMENTS AVAILABLE

COME FOR AN EVENING OF
FUN AND FELLOWSHIP

AND SOME GOODIES TO TAKE HOME, TOO!

WE NEED GOOD
SPECIMENS -
CUTTING MATERIAL -
LAPIDARY WORK -
FOSSILS



WE ALSO NEED
COOKIES -
COFFEE BARS -
BROWNIES -
ETC.

FROM THE PRESIDENT'S ROCK ROOM

You'll remember that last month I promised to recount my experiences on those many miles I logged this summer hunting rocks. In June I made a flying trip to the upper peninsula, leaving June 3 and returning June 6. I made this trip for two reasons. First, my wife and children went to Tennessee to visit the family for a two week stay; and second, I have never had a chance to really explore the upper peninsula alone. So this is the way it went:

On June 3 I worked until 3:30 p.m. (had my wagon packed and ready to go the day before with everything from a metal detector to bandaids) then went home to get food for the trip and ate my supper. By then it was 4:30 and I had to get to the bridge no later than 8:15 because I wanted to see the sunset on the "Big Mac." I crossed the bridge at 7:55 and the sunset was worth the fast trip. That night I drove until I reached a place called Hovey Lake Campground--this is state owned and FREE. I reached there at 10 p.m. and went to sleep in my car.

Next morning I was up at 5 a.m. as the sun was just rising. I crawled out of my car to brush my teeth and was greeted by hoards of hungry mosquitos. I just made it back to the car before I was eaten alive! I then went on to Marquette and then to Presque Isle Park. At 6:30 a.m. I cooked my breakfast on the shore of Lake Superior. The lake was just like glass and there were no bugs to bother me. It was simply beautiful. This was the first and last time I was able to have a warm meal because of the black flies and mosquitos.

My first rock hunting site was the Champion iron mine. I had a metal detector with me and if you really want to hear a metal detector go crazy try it on the Champion mine dump--you're sure to get results.

After an hour and a half here I had enough specular hematite so I went on to find staurolite crystals. I was following the directions in the Muskegon County Rock and Mineral publication, "The Prospector," but I was never able to locate the site where staurolites were supposed to be. At noon I went on to Alberta looking for pyrolusite. I was successful but it was pure torture for the black flies were so thick you could not keep them off for more than a few minutes with bug spray. I endured this for about an hour and a half and could not stand any more and went on to the Allouez mine and found a few small pieces of copper after a long search.

From there I went to a mine near Copper City where I found some very nice pieces of copper--it was in the road and not on the dump that I found the best pieces. When I left it was getting late but
(concluded on page 2)

THE EDITOR'S ROCK ROOM (concluded from page 1)

I stopped at some other mine south of Calumet and hunted until 9 p.m., never finding a piece of copper! So I crawled into my car and went to sleep.

Next morning I was up at 5 a.m. and drove down to Dodgeville to a mine dump. I found my largest piece of copper here, weighing 13 pounds, and other small, nice specimens. I went on to the Greenland and Mass City area. First stop was the Old South Lake mine... I hunted for three hours and found only a few very small pieces of copper. Then I went to a mine off M-35, on the side of a high ridge. The shaft was still open. I went in and found large icicles (real ones!) though it was 85° outside. I also found some nice pieces of copper in quartz. Leaving this mine I went to another near Mass City where I found two of my best specimens, one a half-breed (silver and copper). It was laying in the mine road not more than six feet from the car. I used a metal detector for all of my finds. This was a great help. Last stop was the Algoma Mine where I found some fair pieces of malachite. Next day I drove home--total trip was 1500 miles.

-0-0-0-

At our October board meeting it was decided to take the Museum for our show again this year. It will run for the month of March. Rich VanBeek volunteered to be our show chairman again this year. Let's give him the support he deserves. He did a real great job last year and I'm sure he will give us a good show this year.

We also need a theme for this year's show. Anyone having any suggestions, please call Rich or myself. Or bring your suggestions to the next meeting. We appreciate your help.

--Roger King

-0-0-0-

P.S. Anyone interested in seeing my rock collection, please don't hesitate to call. I'll enjoy showing it to you.

-Roger

And don't forget our auction. Please bring yourself and a friend. You may bring your specimens for the auction that night, and Mrs. Doombos will be needing your contributions of cookies, cup cakes, any snacks for the snack bar. Be sure to bring them along!

DUES were due in September. If you haven't paid yours yet, see Dorothy Ferguson. She'll be glad to see you. We'll soon be checking memberships against our mailing list. Remember we can't send you a Drifter unless you are a member!

FROM THE EDITOR'S ROCK ROOMDUES ARE DUEDUES ARE DUEDUES ARE DUE

Sixty-two members and guests met Wednesday evening, October 13, at the Museum's East Building to hear Dick Matych of Muskegon, Ass't. State Director of the Midwest Federation tell our club what the Federation has to offer and then to show us his beautiful mineral collection. Thanks, Dick.

As he was speaking, the thought crossed my mind that this is tremendous -- now -- what can we do for the Federation? "For it is in giving that we receive."

Visitors at our October meeting we were glad to welcome were:

Mrs. Rosy Smith, Duarte, Calif.
Dick and Mrs. Matych, N. Muskegon
Robert Phillips, N. Muskegon
Elizabeth Creaser, Chicago, Ill.
Jim Zandee, brother of our new member, Don Zandee

Joan, our new raffle gal needs some donations. It is doubtful if she will need them for November (Silent Auction), but let's get them to her for the December meeting.

President Roger reported on his trip to a quarry about 60 miles outside Nashville, Tennessee. Lots of fossils.

Steve Tchozeski, Henry and Bette's son, now a teacher at Belding Public Schools, recently took a group of 100 students on an ecology and environmental field trip to Grand Haven.

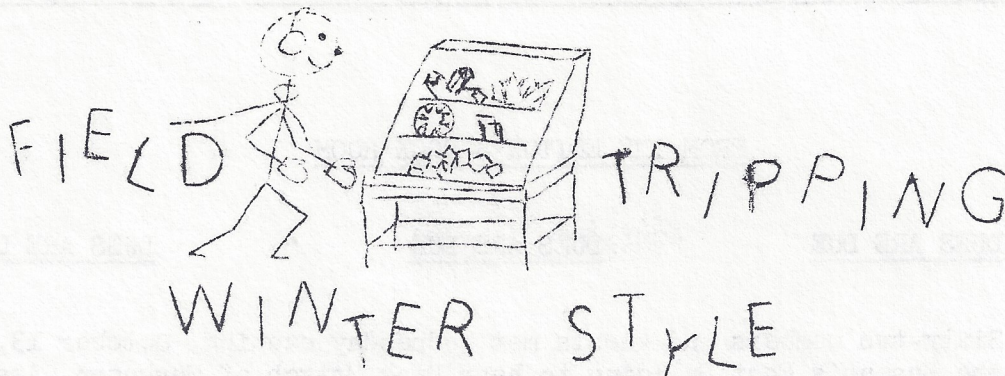
The Editor's attendance at the Rock Identification class has been interrupted about half the time. However, he is glad to report about 25 people taking a very helpful course from Karl Bruder of the Grand Rapids J. C. staff.

Karl DeBack has some good cases (less glass) available for \$8. each. Anyone interested should call him, 243-4014.

If you find a mistake in this bulletin, consider it was put there with a purpose. We try to publish something for everyone, and some folks are always looking for mistakes.

Anyone going to the Detroit Show, Nov. 6? If so--would you mind writing it up for the Drifter? We had planned on going, but stubbed our toe on one of life's little quirks---conflicting dates.

Look for Rich's exciting plans for our January field trip.



by Rich VanBeek

Field Trip Chairman

On Saturday, November 13, at 2 p.m. we will have our first Basement Field Trip of the season. We will go to the home of Henry and Bette Tchozeski at 2941 Edgewood Ave. NE. Edgewood runs north from Three Mile Road and is the second street east of Coit or the fifth west of Plainfield. Henry is well known in our club for his jade carvings and for his collection of Netsuki (ivory carvings from Japan dating back for a few hundred years) as well as for his general collection and lapidary work.

Steve Tchozeski will also have a display for us to see. Although now married and living at Bostwick Lake, he will have his display at his parent's home because of the distance we would otherwise have to travel. So this will be a "double-stop" although in one home. Having been a geology major at Central Michigan University and now an earth science teacher at Belding High School, Steve will undoubtedly have a tremendously interesting display.

We're still trying to find a third place to visit. At the last board meeting we decided to have a basement field trip in November rather than go to a quarry because of the uncertainties of the weather this time of the year, so there was insufficient time to ask for volunteers. Some whom we called were willing to have us but because of conflicts we were unable to get everyone together on one date, and some we were unable to reach by phone, but we're still trying. Any volunteers? We are looking for someone in or near the northern part of the city (north end or west side) to keep traveling distances reasonably short.

The deadline for the Drifter is upon us, so this is the best that we can do for now. We will have further information and the schedule at the silent auction on November 13. If you wish to volunteer, but are unable to be at the meeting, call me (459-3903) or the Tchozeski's (361-1405).

We are also looking for volunteers from any part of town or from within a reasonable distance of Grand Rapids for one or two basement trips later in the season.

BUS TRIP TO CHICAGO PLANNED

On Saturday, January 15, 1972, we will have a field trip to Chicago via a North Star Line bus. You will have your choice of going either to the Field Museum of Natural History in Chicago or to the Lizzadro Museum in Elmhurst, Ill. We will leave Grand Rapids at 7 a.m.

FIELD MUSEUM

The exhibits in the Field Museum are arranged in 47 halls covering nearly 15 acres. About one half of this 706' by 438' building is devoted to earth science. Hall 30 contains more than 1000 examples of carved Chinese jade dating back to 1500 B.C. Hall 31 has gems and jewels; Hall 34 has physical geology; Hall 35, moon, meteorites, and minerals; Hall 36 has economically important ores and minerals; Hall 37, fossil plants and invertebrates; and Hall 38 has fossil vertebrates. There is a restaurant in the museum. Across the street is the Shedd Aquarium which has a new exhibit of a coral reef.

LIZZADRO MUSEUM

"Lizzadro has one of the greatest collections of faceted gems, lapidary work, and carved jade which I have seen," says Ted Duprey, who was field trip chairman when the Grand Rapids Mineral Society made a trip to Lizzadro a few years ago. Saying that it takes a full day to see all of the exhibits here, Ted was especially impressed by a mosaic of a street scene which almost appeared to be in "3D." There are also slide programs to be seen. This is a relatively new museum, being less than ten years old.

Since we have to make reservations with the bus company well in advance to be certain that a bus will be available on the date we want, we would like to have all reservations in by Saturday, Nov. 20. Bus fare will be \$7.75 and must be paid in advance. We will have tickets for sale at the next meeting (silent auction) and on our basement field trip on Saturday, Nov. 13. If you can't get your tickets then, call me at 459-3903 or the King's at 532-6239 to make arrangements for your ticket purchase. When the bus is full, obviously we will be unable to accommodate any more. Be sure to get your tickets early. If you are interested, be sure to get in touch with me.

-Rich VanBeek

MARVE'S SAFETY CORNER

The latest on safety equipment for field tripping is that the owner's of a mine or quarry may require visitors and guests (that's us) to wear the same safety equipment that they require of their employees. This includes a hard hat, goggles (in some cases hardened prescription lenses may be all right), and some places may also require safety shoes.

The Midwest Federation Convention will also require a hard hat and goggles in order to go on their field trips.

And don't forget safety when cracking those geodes in the basement or back yard. They shatter at home just as well as in the field!

-Marve Mulder
Safety Chairman

SHARE

YOUR

HOBBY

The Ferguson's recently had the pleasure of showing fossils, mineral specimens, and lapidary examples to the two 5th grade classes at Fairview School in Walker.

They were the most impressed by the geodes and the black light box. About 40 children attended and were given a brachiopod, a piece of crinoid stem, and a small tumbled beach stone from Lake Superior. One of the classes is hand polishing a Petoskey stone which we had given them previously. We received individual letters from the members of one class, thanking us for coming and inviting us back again.

BANK EXHIBIT CLOSES

Our club exhibit which was in the Union Bank lobby was removed on October 30. Mrs. Diane Alksnis thanked us for putting in the display and said she had received some very nice comments on it. She says that we may be asked to display again in a year or so. Thanks to all the folks who furnished materials and to the hard workers who put in the display, especially Gordon and Dorothy Williams who did the lion's share of the work. (Editor's note: Nonsense, we all worked, and it was fun. I recommend the experience to all our club members.)

(Bob and Ruth Beauvais want you to know they made a special trip down one Saturday morning to see the display and were much impressed. As always, the variety of talent displayed by the club members was remarkable; and modestly, no names were put in the case for credit.)

VAN VUREN AND COMPANY GO TO BROWN COUNTY, INDIANA

We left Grand Rapids at 3:45 p.m., Friday, October 15. Arrived down at Brown County State Park at approximately 10 p.m. Set up camp and went to bed. And as usual the park was quite crowded because of the color tours. All managed to find a suitable campsite though.

Up early Saturday morning and after finding a few of the members of the club in the park, we drove into Nashville where we all met at the courthouse at 10 a.m. We sure were surprised at the number of members waiting there. Those who showed up were Jim, Emily, Ken and Virginia VanVuren; Marilyn, George, Greg and George Arnold; Marilyn's folks, John and Dorothy Schippers; Mable and Don Bowers; Art and Dorothy Ferguson; Marie and Ted Duprey, Ernest and Ruth Potter; Arnie and Elsie Wendt; Elsie's brother and his wife, Jim and Gen Giddings; Arlene, Marve, David and Linda Mulder. There were 26 in all. We were just delighted at such a fine turnout.

We left the courthouse shortly after 10 and headed for Birdie Galyan Rd. near Bloomington where the Duprey's showed the members where to find large crinoid stems. Further up the road were lots of beautiful geodes being dug out of the road bed. A nice, gooey, muddy road bed, and I do mean muddy!

At approximately 1 p.m. Jim as usual decided it was time to eat. Some of the members had already packed their lunches and ate them at roadside parks on the way back to Nashville. Others ate in restaurants but the VanVuren's and the Duprey's took advantage of the fish fry in back of the court house in Nashville.

After dinner we traveled to Bean Blossom and Helmsburgh, to Lick Creek to look for more geodes. There was a new bridge put in over Lick Creek and the creek bed was pretty well bulldozed over and the geode hunting seemed to be real good. Got back to the park about 6 p.m. and figured this was a complete day of rock hunting.

Later that evening some of the members came over to our campsite where a roaring fire was going and had a hot dog roast. A few of us took advantage of the square dance going on in the recreation building. This was a full and complete day.

On Sunday everyone was on his own. We just rode around the beautiful countryside and took in all of the scenery with the Duprey's. We also took in all the hustle and bustle of the little town of Nashville. In the evening we all sat around the campfire, drank coffee and relaxed. Some headed for home Sunday and the rest of us stayed until Monday.

(concluded on page 8)

VAN VUREN TRIP (concluded from page 7)

Monday, after sleeping late, the Duprey's headed for other parts of Indiana and south into Tennessee. The VanVuren's and Greg and George Arnold went horseback riding and then headed for home.

A wonderful week end in Brown County was enjoyed by all.

-Emily VanVuren

-O-O-O-O-

"There's a patch on the eye of
rockhound, Jim Crockett,
'Cause his goggles were parked
in his coverall's pocket."

-O-O-O-O-

BASEMENT FIELD TRIPS - Cooperate with your field trip chairman when he calls on you. We all like to see other collections.

-O-O-O-O-

ARE YOU A ROCKHOUND OR NOT ?

If you hit the road at ten to four,
And drive a hundred miles or more,
And look for rocks till your eyes are sore
YOU'RE A ROCKHOUND

If you dig all day in the boiling sun
Pack a sackful home when the day is done,
And still insist you're having fun--
YOU'RE A ROCKHOUND

If you camp at night where rattlers crawl,
Where coyotes howl and dogies bawl,
And your dreams are not disturbed at all--
YOU'RE A ROCKHOUND

If you head for home with an overload,
Down a rough and rutted mountain road,
And break a spring and don't explode--
YOU'RE A ROCKHOUND

But, when your club puts on a show
To strut their stuff, and raise some dough,
And your Braggin' Rocks just aren't there
THEN YOU KNOW

YOU'RE NO ROCKHOUND!

-Rocks and Minerals

via Rocky Ritings

DUE YOU KNOW? - - - - - DUES ARE DUE ! !

"DOLLS" HEAR ABOUT THE MINERAL KNOWN AS DOLLITE

by Dorothy Claypool

What is it that's "highly reactive," violently explosive if not expertly handled, changes color when placed near certain other specimens of the same mineral, turns blue when left on the shelf for a long time, and has many other characteristics which have long intrigued researchers and scientists?

It's the chemical mineral commonly known as "dollite," but scientifically referred to as femalium, Dr. A. T. Bever--with tongue in cheek--told members of the Geologists' Wives Club at a luncheon meeting.

His summary report of research on the physical and chemical properties of Dollite, or femalium--for which the chemical formula is FeMaLe--was previously presented at a meeting of the Mineral and Gem Society.

Although not a geologist (he's associate professor of biochemistry and head of the biochemistry department at the University of Oklahoma School of Medicine), Dr. Bever is the husband of a "rock hound," who is a member of the Mineral and Gem Society.

You will note," he said, "that Fe is not found in the similar mineral, malium, (symbol for malium is MaLe), which is structurally stronger but grinds easily under pressure. Fe is the chemical symbol for the ferrous iron constitution, giving the mineral great wearing qualities."

The Le of the dollite formula is the symbol of the element leave-me-alonium, which makes up one-third of this mineral's composition, he said, "and is responsible for 50 percent of its reaction in the frozen state..."

Specimens of dollite, or femalium in this country, he continued, while usually white, exhibit chromotropism--that is, the ability to change color, explained Dr. Bever. It quite easily takes on a green coloration, he said, if it is a moderately good specimen placed next to a more perfect and well formed specimen.

"A quick color reversal can be obtained," Dr. Bever said, "by placing this moderately good specimen next to a poor specimen... causing the green color to fade, and in some instances, causing a rosy glow to appear."

Other physical and chemical properties of dollite, or femalium, include "a powerful and over whelming seductive action upon malium (MaLe).

"A small sample of femalium," he said, "can completely convert a large specimen of malium to an inert pile of ashes in an amazingly
(concluded on page 10)

DOLLITE (concluded from page 9)

short time. Such vigorous reaction is unexcelled in the world of chemistry."

Magnetic properties of femalium have been explored. While this mineral has quantities of cast iron in its constitution, Bevers said, "it has no ferro-magnetic properties, that is, does not attract iron or steel, yet shows marked magnetic attraction for metals such as gold, silver, platinum and malium--and a noted attraction for the gem stones such as diamonds, rubies...and a remarkable latent tendency to attract certain species of fur."

Dollite is expensive for collection, experimentation and maintenance, the speaker said. Eventually, he believes, "this fascinating and tempestuous mineral will be tamed by man, but probably only after man himself has been modified by femalium."

Geologists' wives were shown Figure 1 from the technical paper on dollite, illustrating structure and axial indices of idealized specimen of femalium "dollite"--the ideal measurements being 36-26-36, hourglass in shape, rounded at the corners.

Continually interrupting Dr. Bever's tongue-in cheek technical discussion with waves of laughter at the double entendre throughout, the club members well knew what this man (malium) was talking about.

He was talking about something they knew well--call it dollite, femalium, FeMale, call it themselves and you and you and you.

(Printed in the Oklahoma City Times on February 7, 1963, and clipped and contributed by Max Loeffler.) Via: "The Puddin' Stone News"
& Flint Rock & Gem Club

-o-o-o-o-o-o-o-o-

SO YOU THINK YOU HAVE JADE!!!

1. If a small chip is knocked off the end of the suspected broken surface, it should NOT sparkle in the sun. If it does, it is not jade.
2. If you can scratch it with a knife point, it is not Jade.
3. It should be much heavier than a rock of similar size.
4. Tap the specimen lightly with the point of your hammer. If a small moon-shaped fracture shows up it is agate or jasper but not Jade.

If it is Jade it will have a smooth, waxy, almost greasy look.

-Arrowhead Min. Club via Golden Spike News, via
Rockfinder

FLASH!! ATTENDANCE AT 1972 MIDWEST CONVENTION TO BE LIMITED!!!!

If you've been thinking of attending the 1972 Midwest Federation Field Trip Convention at Ishpeming, Michigan, next June, better read this!

We have just received advance information about this convention (last of the field trip conventions, we understand) and it looks as you'll have to plan early if you want to be included. It is to be limited to the first 3000 registrants. Field trips will be by bus only, no cars allowed.

Everyone MUST be registered at least 30 days prior to the convention. Cut-off date will be June 19, 1972. Convention dates are July 20, 21, 22, 23, and 24. NOBODY will be permitted to join the Field Trip Convention after that closing date (June 19). The Ishpeming Club is a small club and 3,000 field trippers presents a stupendous task for this group.

The registration fee of \$15. will include:

- (1) Bus trips on Saturday and Sunday as well as bussing on Thursday and Friday.
- (2) Pancake breakfast (all you can eat) Friday, 6 a.m.-2 p.m.
- (3) Chicken bar-b-que 5-7 p.m. Friday
- (4) Administrative expenses including Convention Hall - show pass for four days - bulldozing on two piles - field trip guide expenses, etc. Not included are the box lunches needed on Saturday and Sunday, or the annual banquet and luncheons, motel or camping expenses.

Our treasurer, Dorothy Ferguson, has complete information on the convention--that is, all the information we have so far received--including Campers' Registration Blanks and Registration Blanks. She'll be glad to give you any information she has.

Better start thinking about it now and making your plans early. All Midwest shows are great and this one sounds like a real treat.

-o-o-o-o-o-o-o-o-o-

CONFUSE-US SAY:

- 1) He who finds strange dinosaur fossil has bone^{of} contention.
- 2) Persons who have rock clubs must also have strong arms.
- 3) He who rocks boat soon gets bottom wet.
- 4) Timid man who goes in rock quarry will soon get boulder. .

THE ROCKY MOUNTAIN AGATE

(Dendritic Agate)

It is a mystery to many people how the peculiar little scenes and moss spots ever got inside such a hard rock as agate. It is the claim of geologists that the spots were formed when minute cracks and holes in the softer part of the rock were filled with metallic oxides when the world was young. These oxides make four distinct colors that blend together to form various combinations of colors, or only appear in single color in one rock. The red color is iron oxide, the black is oxide of manganese, the green is oxide of copper and the blue is oxide of nickel.

This theory has been developed through the use of high-power microscopes, which show little canals which once carried these minerals suspended in water. The water dried out, the canals closed so that the naked eye could not detect it but the oxides remained, staining the rock in wonderful designs.

The fern-like and branch effects of trees and grass come from the fact that these tiny canals branch out from a common center. In addition to these canals the rock became flawed in a process of shrinking which took millions of years and placed the stone at seven on the hardness scale.

The stones have taken on a design that is much like the ferns seen on a window on a frosty night.

-From a brochure obtained in Rocky Mountain Park
via The Petoskey Stone

--o-o-o-o-o-o--

OUR SILENT AUCTION IS OUR ONLY MONEY-MAKING VENTURE DURING THE YEAR
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--o-o-o-o-o-o--

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