

Volume 10 No 9 ~

May, 1969



The

GLACIAL  
DRIFTER



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	Mr. & Mrs. Lloyd Henton
	Mrs. Ruth Steele
	Miss. Marie Spielmaker
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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 PM at the Grand Rapids Public Museum, Multi-Purpose room, East Building. Summer meetings at various parks as announced.

Membership dues are \$5.00 per year for a family, \$3.00 for single adult, and \$1.00 for students under 18 years of age. Dues are payable to Treasurer-year is from September 1 through August 31 of the following year.

Advertising in the GLACIAL DRIFTER is limited to uniformed size of only one third page at the rate of \$3.00 per issue, September through may only.

All material for publication shall be in the hands of the EDITOR no later than the third Wednesday of the month or a week after the regular monthly meeting.

Permission to reprint articles appearing in the GLACIAL DRIFTER IS HEREBY GRANTED, PROVIDING PROPER CREDIT IS GIVEN.



# WAGAY - be you can make these!

- May 14, 6:30 p.m., Museum East Bldg., POTLUCK SUPPER, Election of Officers; "Geology of Grand River Valley"
- May 17; 1 p.m., Field Trip, Grand Ledge
- May 19; 7:30 p.m., Bd. of Control, B. Teunis, 1150 Ball N.E.
- May 28, 8 p.m., Mineralogy Group, Fay Reed, 425 Lafayette N.E.
- On June 22, this group will have its annual potluck picnic at noon at the Horace Merrick home in Muskegon Heights
- May 30-June 2, Mazon Creek, Ill. Field Trip sponsored by Indian Mounds Club
- June 6, 6:45 p.m., Regular Meeting, Hager Park
- May 10, 11--Cedar Valley Rocks & Minerals Show, Armar Ballroom (between Cedar Rapids and Marion, Iowa)
- June 7, 8--7th Annual Rock Swap, State Line Gem & Mineral Soc. Fulton Co. Fairgrounds at Wauseon, Ohio
- June 12-15--Midwest Field Convention, Murdo, S. Dak.
- June 19-22--"Gemboree of the Rockies", Salt L. City, Utah
- June 21, 22--Rock Fiesta, County Fairgrounds, Kalamazoo, Mich.
- Aug. 2, 3--Lakeland Gem Club Show, Minocqua, Wis.

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## MAY 14 ANNUAL MEETING COMBINES IMPORTANT BUSINESS WITH GOOD FOOD, GOOD FUN, GOOD PROGRAM

*Ummmm*, rockhounds are the best cooks! Plan to eat at 6:30 sharp. Braing your own table service and a dish to pass-- maybe two, if the whole family comes. Individuals coming alone who don't find it convenient to prepare food, may contribute 50¢ toward the cost of coffee, etc. (but don't forget your own table service!) Mrs. Arthur Ferguson, Mrs. Donald Bowers and Mrs. Rex Krausbauer are in charge, assisted by Mrs. James VanVuren at the coffee urns.

*Good*, look! Special rock displays for your enjoyment. The Fergusons will bring materials which they found around Murdo, S. Dak. last year. And young Greg Arnold will show the "braggin'" specimens he found at Bellevue. While everyone else was pounding ledges the hard way, Greg simply explored under the big rock out in the middle of the quarry pool. Of course he got wet to the neck, but it paid! His Brother George has an interesting green fossil he'd like identified, too. You'll envy these kids their dog-tooth calcite!

*Horrah*!--and congratulations to the new officers who will be elected. YOUR vote is important.

*Ummmm*, how interesting! Mr. James Muller, science teacher at Central Christian High, will tell about the geology of the Grand River Valley--with aerial shots from Lansing to the river mouth, and Indian lore as well. Sounds fascinating!



SOMETHING NEW IN SUMMER MEETINGS --  
Notice Changes In Dates!

Since the Museum's Blandford Nature Center, where we had hoped to hold our summer meetings, will not be available...and since our June regular meeting date conflicted with both the Murdo convention and with local park reservations, our summer meetings will be as follows. (Detailed directions will be included in the summer newsletters, but mark the dates on your calendar now.)

Wed., June 4, 6:45 p.m. picnic, Hager Park (near Jenison)  
Wed., July 9, 6:45 p.m. picnic, Ideal Park  
Sat., Aug. 23, Allendale Town Hall, joint Rock Swap with Indian Mounds Club. Starts at 11 a.m. and goes on all afternoon. Bring your own table service and a cold dish to pass. AND some good swapping material, of course! This should be a real fun day!

PROJECT-SUMMER! Your Board of Directors is asking that each and every club member bring to the September meeting one really good rock specimen to be presented to the club. It should be labelled as to identification, source, etc. A special committee will take charge of this collection, disbursing the pieces as seems best--some to the Calvin College geology dept., some as special gifts, etc. (Of course, as long as you're saving one beauty for the club, save a couple of others for the November Silent Auction, too!)

NEW OFFICERS TO BE VOTED AT MAY MEETING

The following candidates for office for 1969-'70 are submitted by the Nominating Committee (James F. VanVuren, Mrs. Ruth Steele, Miss Marie Spielmaker).

President: Arthur Ferguson, James DeZwaan Sr.  
Vice-President: Harry Angell, Richard VanBeek  
Secretary: Mrs. R.C. Smith, Glen Marvin  
Treasurer: Mrs. Dorothy Ferguson  
Historian: Mrs. Alice Duprey, Miss Vera Joyce  
Liaison Representative: Edward Pryce, Dr. Robert Smith  
Editor: Gordon Williams  
Members-at-Large (four to be elected)  
Mrs. Dora Hurd                      Mrs. Marilyn Arnold  
Ford Hurd                              Lee Chapin  
Ted Duprey                              Mrs. Lee Chapin  
Larry Fegel                             Miss Dorcas Jacokes  
George Arnold                          Miss Harriet Jacokes

Officers will be elected at the May meeting. Nominations may be made from the floor, before balloting begins, provided that the proposed candidate has previously consented to be nominated.





FIELD TRIP SCHEDULED FOR MAY 17;  
INVITED FOR MEMORIAL DAY WEEKEND TRIP

Saturday, May 17, join our field trip to Grand Ledge, to collect fossils, sulphur, coal. We will meet between 1 and 1:30 p.m. in beautiful Fitzgerald Park. Take I-96 to M-100 (Grand Ledge exit). Follow M-100 into Grand Ledge to the traffic light, and turn right. This puts you on Jefferson, which becomes Grand Ledge Hwy. as it goes out of town. Within about 2 miles you will see the Fitzgerald Pk. sign.

Following a little prospecting about the park, we will continue on to the quarry. To reach this, continue on about a mile out Grand Ledge Hwy., past the Grand Ledge Clay Products Co., then make a right hand turn on the first gravel road. About a mile down this road, across R.R. tracks, will be the quarry entrance (a cable across it). Park on the road and walk down. Good hunting, everyone!

The Indian Mounds Club is sponsoring a Memorial Day weekend field trip to Dresden Lakes, Ill.--about 20 miles south of Joliet, in the Mazon Creek area, famed for fossils. We have been invited to join them. If you plan on this, or for more information, call their field trip chairman, Marie Spielmaker.

MURDO, HERE WE COME!

As of this writing, quite a few of our members are planning to attend the Midwest Field Convention in Murdo, S. Dak, June 12-15. Dr. R.V. Smith and James DeZwaan Sr. will be official delegates, with the Arnold Wendt Srs. as Alternate Delegates, so we should have good reports.

Big plans are being made for the Thurs. night free Western barbecue. Gov. Frank Farrar and former governor and Congressional Medal of Honor winner Joe Foss will be on hand, and there'll be, literally, dancing in the streets. Speaker at the final banquet will be A.I. Johnson, state mine inspector, with some of the rollicking incidents in S. Dak. mining history.

If you have not yet made reservations, you should know that most accommodations are filled, and you may have to park your camper or tent farther away than you had planned. Those without camping facilities were still being quartered in private homes, the last we heard. You can write Mrs. Jessie Lehr in Murdo (zip 57559) about reservations.

Among those planning the Murdo trip are the VanVurens, Ted Dupreys, Bob Teunis's, Jim DeZwaan Srs., R.B. Smiths, Ken Jones, Bill Wendts and Arnold Wendt Srs. If there are any others, your Drifter editor would like their names.

DON'T LICK THAT ROCK! Increasing reports have been made of serious fungus inhalation, as well as mineral and bacterial poisoning through licking rocks. Have a small, sponge-ended squeeze bottle instead.





## SOME SAFETY-FIRST TIPS FOR CAMPING AND FIELD TRIPS!

How we love to get outdoors in the summer! Isn't it great that the new camping equipment makes it easier than ever for the whole family to go? Still, when it's a new way of life, or involves skills used only a few weeks in the year, it's easy to forget small but important details. Here, culled from many sources, are a few safety thoughts and tips that seemed worthwhile.

Plastic food bags or containers can melt into enclosed "bubbles" when tossed into a campfire, and then explode with dangerous force. A Mich. Conservation news report cited an incident in which a youngster was showered with molten plastic and severely burned when a plastic bag tossed into the fire apparently heat sealed and then burst out.

On coolish evenings, a clay flower pot placed over a burner becomes a radiating heater that will take the chill off tent or camper. A plastic bleach bottle filled with hot water and slipped into your sleeping bag before retiring provides a cozy nest.

When leaving your campgrounds, always be sure your campfire is stone cold by dousing it with water--BUT, do not throw cold water on hot rocks. It can cause them to shatter, and sometimes explode. Douse only the fire. Simply shovelling a pile of sand or dirt over the fire will keep the embers and ashes hot a very long time, and someone else might walk through it and get severely burned.

We read of persons, sometimes whole families being suffocated while sleeping in a tightly closed camper with the heater going. Any kind of artificial burning material burns up all the oxygen in a closed area. A one-inch opening in window, door or ventilator may mean the difference in life or death.

New tents or any type of canvas cover should always be opened and thoroughly aired before using, as the material used in waterproofing the fabric contains poisonous gas fumes. Without thorough airing, they may cause serious illness or death.

Sleeping bags should not be cleaned in coin-operated dry cleaning machines. This kind of cleaning distorts the structure of the comforter, and if the cleaning cycle is inadequate the sleeping bag will still contain large residue of the cleaning fluid. In lower Mich. a sleeping bag cleaned this way was stored in the trunk of the car. It was used that night by a 16-year-old boy, who was found comatose in the morning. He died eleven days later. According to the death certificate, death was attributed to inhalation of perchlorethylene fumes, the solvent used in dry cleaning.

A more cheerful campers note: For a sure fire, pour hot



paraffin, inside and out, over cardboard egg cartons. Place a charcoal briquette in each of the 12 holes, close and tie each end together. Cut in half. Each piece will start easy and provide enough heat to cook a meal.

YOU CAN'T BE TOO CAREFUL .....

.....On field trips, the finest specimen in the world wouldn't be worth an accident to yourself or to someone else. Wear the right clothes. Have the right tools. Use some common sense.

Some people go into a quarry swinging a hammer at every rock without realizing that a glancing blow can cause splinters to fly out. Eyes are most vulnerable--wear safety glasses or goggles if you're chipping rocks. Just last fall, while a member of the Ozark Earth Science Club was cleaving a rock in two, a fragment flew up and hit him in the chest. It penetrated through the skin and struck a blood vessel, causing severe bleed-bleeding. Prompt first aid managed to control this flood of blood, but his field trip ended there. It can happen to anyone.

Watch out for falling rocks and be sure the one you are moving is not a "key" that will release a mass of others. Overhanging ledges are risky, too. Wearing fairly heavy gloves will save your hands from considerable scratching and scraping--after all, those rocks were sharp enough to cut up meat for the Indians! If you have children with you, see to it that they do not go roaming around where they can cause slides. Do not collect directly above or below people.

It is smart to wear a hat; to have water in the car, plus a first aid kit and a triangular bandage as well. Finally, always ask permission before entering someone else's property. And stay away from equipment. Many a quarry has been closed by some inconsiderate person wrecking expensive machinery.

As the Indian Mounds Club says, "Play SAFELY, work SAFELY, and travel SAFELY; we would like to collect dues from you next fall!"



C WAHN

OOPS!

(Neb. "Rear Trunk")



## AN APPRECIATION



The outer appearance of calm and beauty of the Mineral Show little portrays the preceding hard work and planning that goes on. Jim De Zwaan spent days at a time at the Museum and talking to people, working up plans of the Show, gathering displays and making contributors happy with space, urging and encouraging new contributors, giving of his ideas and time. A most familiar sight of the day of setting up displays is Jim and his brown bag everywhere, lending a hand or a screwdriver or hammer, all the while setting up his own display. So to Jim DeZwaan, master planner, goes our appreciation for a beautiful, successful show. Also, it was Jim's idea to open another day of the week, Tuesday, for a self-polishing program. It was amazingly popular and Jim spent Tuesday afternoons busy with the kids. Well done, Jim!

Busy Elaine Smith took time to get the Press to publish articles and pictures of the show and to write up those marvelous articles in the Drifter - with one hand yet! The article in last month's Drifter was a masterpiece, the kind Elaine continually puts out. Our sincere appreciation goes to her to Elaine.

Not many of us realize the worry and effort Ruth Steele put into those film programs for Sunday afternoons. It is so frustrating not to hear from a film company in time, or to have a film refused or cancelled too late, or arrive the day after you wanted to use it. But the show was always ready. Great work, Ruth!

Gordon Williams lined up the demonstrators for Saturdays and Sundays and they proved a popular part of the show. The silver-smithing class drew interest because their display showed what could be done. Thanks, Gordon and demonstrators.

And those who have worked on the Shows know that we couldn't get far without Dr. Rose. He always somehow has time to help and never refuses anything asked. His programs are a joy to see and hear. Thank you, Dr. Rose, we appreciate this.

Arnold, Sr. and Elsie Wendt took over the job of supplying hosts and hostesses for weekends, efficiently and with dispatch. Hosts and hostesses were on the job and a very good job it was. Thank you, Elsie and Arnold, and all!

And thanks to the Museum staff for all their help and cooperation, especially to Ardath Allen who seemed to be everywhere, lending a hand and her artistic ideas.

From the Co-Chairman (Marion Jennings)

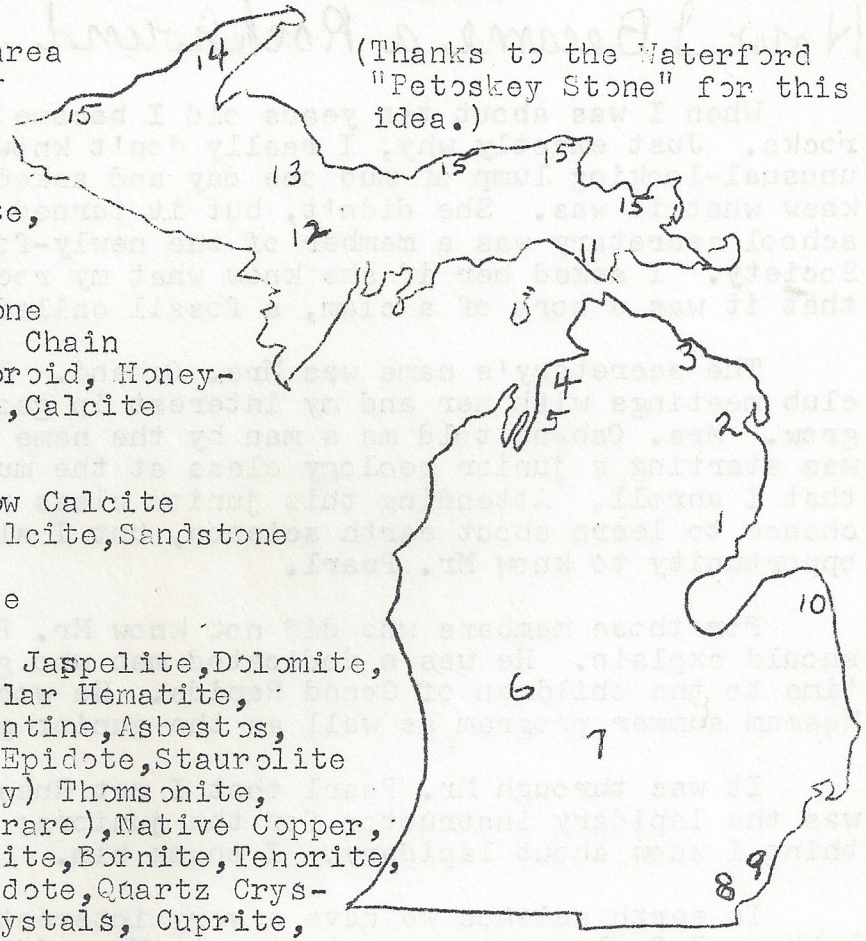


### A ROCKHOUND'S MAP OF MICHIGAN

(Locations are by area and do not show any definite location.)

(Thanks to the Waterford "Petoskey Stone" for this idea.)

- 1&6 - Gypsum
- 2&5 - Calcite, Pyrite, Marcasite, Chert, Anthraconite
- 3 - Fossils, Limestone
- 4 - Petoskey Stone, Chain Coral, Stromatoporoid, Honeycomb Coral, Pyrite, Calcite
- 7 - Pyrite, Calcite
- 8 - Calcite
- 9 - Celestite, Yellow Calcite
- 10 - Chert, Brown Calcite, Sandstone
- 11 - Gypsum, Dolomite
- 12 - Chert, Flint
- 13 - (Iron Country) Jaspelite, Dolomite, Chert, Talc, Specular Hematite, Tourmaline, Serpentine, Asbestos, Garnet Crystals, Epidote, Staurolite
- 14 - (Copper Country) Thomsonite, Chlorastrolite (rare), Native Copper, Datolite, Chalcocite, Bornite, Tenorite, Chalcopyrite, Epidote, Quartz Crystals, Epidote Crystals, Cuprite, Chrysacolla, Mohawkite, Prehnite
- 15 - Agates, Epidote, Conglomerates



MICHIGAN WEEK  
May 18 - 24

Michigan has more recognized rock hobbyists than any other state except California. There are now at least forty affiliated mineral clubs in Michigan.

Michigan's lower peninsula is 277 miles long (N-S) and 195 miles E-W. Upper peninsula is 318 miles E-W and 164 miles N-S...as big as Conn., Mass., Rhode Island and Delaware combined.

Michigan has the longest shoreline of any state, 2,242 miles (and another 879 mi. if islands are included). This equals the length of the Atlantic coast from Maine to Florida. No point in Michigan is more than 85 miles from the Great Lakes.

Michigan, almost surrounded by fresh water, produces 1/3 of the nation's salt.

The only commercial deposits of native copper in the world worked with any financial success are in Michigan. The Rogers City limestone quarry is the world's largest. Mich. ranks 2nd in production of bromine, iron ore, sand & gravel; 3rd in natural magnesium compounds; 4th in stone & peat. Saginaw supplies the graphite used in foreign lead pencils. Nearly 30% of the world's asphalt is mined in Michigan.



## How I Became a Rockhound... by Larry Fegel

When I was about ten years old I became interested in rocks. Just exactly why, I really don't know. I found an unusual-looking lump of mud one day and asked my teacher if she knew what it was. She didn't, but it turned out that the school secretary was a member of the newly-formed G.R. Mineral Society. I asked her if she knew what my rock was. I was told that it was a sort of a clam, a fossil called a brachiopod.

The secretary's name was Mrs. Osband. I started attending club meetings with her and my interest in geology started to grow. Mrs. Osband told me a man by the name of Mr. Leslie Pearl was starting a junior geology class at the museum and suggested that I enroll. Attending this junior class not only gave me a chance to learn about earth science, but I also received the opportunity to know Mr. Pearl.

For those members who did not know Mr. Pearl perhaps I should explain. He was a dedicated man who gave much of his time to the children of Grand Rapids. He worked with the G.R. Museum summer program as well as the junior group in winter.

It was through Mr. Pearl that I met Russell Girard. Russ was the lapidary instructor for the juniors; he taught me everything I know about lapidary. I thank him.

In earth science we have a very interesting and rewarding hobby. I feel great appreciation to Mrs. Osband for introducing me to it, and especially to Leslie Pearl and Russell Girard for the instruction and knowledge I have gained from them.

(EDITOR'S NOTE: Larry has shown his appreciation in more than words--by carrying on the work of Les and Russ as the leader of the junior group, now known as the Leslie Pearl Junior Rockhounds. Larry is now enrolled at Grand Valley State College, and is going into the field of Biology.)

\* \* \* \* \*

### CLASSIC MICHIGAN ROCK BOOK NOW AVAILABLE

As a service to members, the Board has ordered 10 copies of "Rocks and Minerals of Michigan", a classic and indispensable book issued by the Mich. Dept. of Natural Resources. They will be available at the May meeting for 50¢ each. Also on hand will be a listing of all available publications of the Mich. Geological Survey, some free, some at minimal cost. Copies of many of these are now on file in a special folder in our Library. Another recent book has come to our Library from the Ionia Club, to whom the Morton Salt Co. sent 100 copies, following a program there. It is titled "The Water In Your Life" by William Laas and Dr. S.S. Beicos, and it is an excellent book, very readable and very informative.



PETOSKEY STONES AUTOGRAPHED  
BY INDIAN CHIEF'S GRANDDAUGHTER

An opportunity to have a unique keepsake may be available to us through the enterprise of Bob Gierman of the Grand Valley Rock and Mineral Soc. of Ionia. Mr. Gierman has made arrangements with Miss Ella Jane Petoskey, granddaughter and last surviving third-generation descendant of Chief Petosegay to autograph a limited number of the Petoskey stones which were named for him. The stones are of paperweight size, and she signs her name in India ink on a background strip of white paint. For each signature she receives \$1, which Mr. Gierman feels is an excellent way to supplement the meager income of this intelligent and gentle little retired teacher.

We have told Mr. Gierman that our club would be very interested in joining him in this project (which was at his invitation). We have also invited Miss Petoskey to be our guest at our annual potluck supper in May. However, she has become ill, and is at present residing with a niece in Lansing, where she can receive proper care. She spends her summers in Harbor Springs. We wish her a speedy recovery from her present illness, and do hope to have the pleasure of meeting her soon.

In another issue, we will print for you Miss Petoskey's own story of the founding of the City of Petoskey, as it was given in the Grand Valley Lithogram. In the meantime, if you would be interested in having a signed, polished Petoskey stone, please contact the Drifter Editor without delay. If you furnish your own stone, the charge will be \$1. If you wish us to furnish the stone, the charge will be \$3 - \$4, depending on size and quality. Your stones should have written identification on white tape.

WHEN DAY IS DONE

When day is done and there's no sun  
To light up agates on the ground,  
He gathers gear and sheds a tear  
For all the rocks he has not found.

His sore tired feet and pang to eat  
Urge him to be homeward bound.  
A work week, then, He's back again,  
He never quits - the old Rockhound.

He cuts and grinds on that day's finds,  
Rocks are piled up all around.  
He worts, he tosses - some gains, some losses,  
He's sure the busiest guy in town.

He tests and grades, he sells and trades,  
He even buys some by the pound.  
But - end of the week, he's up a creek!  
He sure has fun! That Old Rockhound!

{Rock Talk via Nebraska Rear Trunk}



2. LIZZADRO

## MUSEUM FIELD TRIP GREAT SUCCESS

Ah, there's nothing like the friendly confines of a big bus to give you that "home away from home" feeling! Consider the shared experiences of the one-big-happy-family group which gathered at 6 a.m. to journey to the Lizzadro Museum of Lapidary Arts in Elmhurst, Ill.

The coffee and rolls didn't arrive. Turned out to be a good thing, because at the breakfast stop (one place took one look and turned us all down) a steady stream of gasoline was noticed pouring out from under the bus. Luckily this turned out to be merely a connection, speedily fixed. We saw a bit extra of the environs of O'Hare Field, before our driver found the Museum.

The opportunity to view the carvings, intarsias, and specimens on display was well worth the journey. Everyone also enjoyed the Museum slide program, the Alaskan camping movie featuring Sir Edmund Hilary, and the gift shop. It was an especial treat to meet Mr. Lizzadro himself. "One thing about having a museum," he said, "Most people think you're dead."

Getting the bus out of that crowded parking lot was an adventure in itself. Getting us onto the right eastbound throughway turned out to be another. The heavy, acrid smog darkening the whole south end of the Chicago area made us grateful for Grand Rapids' relatively clear air. Nearly ended up at a wedding for dinner, but had a nice meal anyway. Dusk brought on a bit of community singing. Our bus driver thanked us for a nice day and drew cheers. "With luck," he concluded, "we'll find M-21." He really did a good job; furthermore, with his wife expecting a baby momentarily, he didn't know whether he'd be a proud paper (2nd) by the time he got home.

Yes, it was a great day--enjoyed by the Teunis's, the Dr. R.B. Smiths, Marion Jennings, George Walcott, the Beauvais, Beryl Joyce, Vera Joyce, the Fay Reeds, Nellie Mead, Karl De-Back, the DeZwaans, the Arnolds, Willard Iteen, Henry Tchozeski, the Fergusons, the VanVurens, the Heatons, and a gust, Peggy Ward. From Grand Haven, Mark Mierle and Mrs. Joldersman. From Indian Mounds club, the Wm. Ammermans, Arline Duprey and Kenneth Duprey. Last, but not least, those busy members of both local clubs, and the field trip chairman responsible for the day's arrangements--Ted and Marie Duprey.

Final note: The Lizzadro instructor commented that they had never before seen a club come in all wearing their club emblems. They thought it was a great idea.

Apparently sitting on a bus for hours makes you want to exercise. At any rate the next day found Teunis's, Arnolds, Smiths, Dupreys and others (plus the Muskegon Club) congregating at the Bellevue Quarry, picnic lunches in dusty hands, and making some good finds. Surely only dedicated rock hobbyists would pick an old rock quarry as their scenery of choice on a beautiful day like that!



ON HUNTING ARROWHEADS ---

"After breakfast I made a crude chip-flipper out of dead willow. Any stick will do, cane length and sharpened on the end. The idea is to use the sharp end to flip over any suspicious piece of rock; this avoids stopping to pick it up or turn it over. Most of the artifacts are buried and some of our best have been seen only by having an edge exposed.....Turn over any small odd-shaped piece of rock that looks like it doesn't belong there. This is a good axiom because much of the material that prehistoric man made his tools from was brought into the area. Agate, jasper and obsidian artifacts can be miles from outcroppings of these materials....."Arrowheads" over an inch long were actually throwing stick points. The delicate smaller ones were the real arrowheads and much younger. The bow, with its need for a light point mounted on a slender shaft, came into use about 1,100 years ago." (by K.D.Flock, a retired forest ranger, via Ozark Earth Science News)

ADDITIONAL NEWS NOTES: Past-Pres. Willis Atwell and his wife looked mighty glamorous when they were guests at the Nixon Inaugural Ball, as pictured in the national News Bulletin of the Am.Assoc. of Retired Persons....Just got word of the Gem Show and convention of the Eastern Federation, to be in Rochester, N.Y. June 26-28. They have a really fine lineup of speakers.

MEMBER'S WANT AD:

For Rent: House on beautiful Beaver Island; completely furnished except towels and sheets; sleeps 10 easily; 30-ft. porch overlooking L.Michigan.; \$75 week. Phone 949-4093.

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(At their Apr. 14, 1969 meeting, the Board of Control adopted the following revisions to what we have formerly termed the by-laws of our Society. We suggest that you fasten this sheet into your 1969 Membership Directory.)

RULES AND REGULATIONS OF THE  
GRAND RAPIDS MINERAL SOCIETY

ARTICLE I: Name: The name of this organization shall be known as "The Grand Rapids Mineral Society".

ARTICLE II: Purpose: The purpose of this organization shall be to further the interest in rocks and minerals and in the arts and sciences relating to it.

ARTICLE III: Membership: Membership is open to anyone interested in the purpose of this organization, upon payment of dues.

Membership shall consist of three groups: Student, Individual Senior, and Family.

ARTICLE IV: Dues: The dues of this organization shall be:  
1. Family Membership, \$5.00 per year  
2. Individual Membership, \$3.00 per year  
3. Student Membership, \$1.00 per year

The dues shall be due and payable at the September meeting in advance of the fiscal year.

All dues will be as stated above regardless of time of joining this organization. No refund will be made of any dues paid. Unpaid membership will be dropped from the roll after Dec. 1.

All persons who became members of this organization by Jan. 1, 1959, shall be known as Charter Members. All members who attended the organization meeting on Oct. 30, 1958, shall be known as Founding Members.

ARTICLE V: Fiscal Year: The fiscal year of this organization shall be from Sept. 1 to the following Aug. 31.

ARTICLE VI: Meetings: The regular membership meetings of this organization shall be held once a month at a time and place designated by the Board of Control. Regular meetings during July and August may be suspended by a majority vote of those members attending the June meeting.

The Annual Meeting shall be held in May, at which time officers for the coming year shall be elected. New officers shall assume their duties on Sept. 1.



(Rules and Regulations--2)

ARTICLE VII: Official Publication: The official publication of this organization shall be a monthly bulletin, to be known as "The Glacial Drifter". It shall transmit notices of regular and special meetings, official business of the Board of Control, and the annual Treasurer's Report, as well as articles of general interest.

ARTICLE VIII: Officers and Directors: The executive officers of this organization shall be:

1. President
2. Vice-President
3. Secretary
4. Treasurer

These officers shall constitute an Executive Committee empowered to take action on behalf of the Board of Control, and the Society, should this become necessary between meetings of the Board of Control.

The Board of Control shall consist of the following: the above named officers; a liaison officer, a bulletin editor, a historian, four elected members-at-large, and the immediate past president.

At such time as a Junior group is organized, the president of this group will be an additional member of the Board of Control.

The term of office for officers and directors shall be for one year concurrent with the fiscal year.

ARTICLE IX: Nomination and Election: The President shall appoint a nominating committee to present a slate of officers at the regular meeting in April.

Additional nominations may be made from the floor in April; also, nominations of members for office as write-in candidates may be made from the floor at the May meeting, before ballots are cast. Consent to be nominated must be obtained from any prospective nominee before his name is offered in nomination.

The nominee for President must be a present or former member of the Board of Control. A President shall not immediately succeed himself in office.

Election of officers shall be by simple majority of those ballots cast at the May meeting.



(Rules and Regulations--3)

In case of a vacancy on the Board of Control, the President shall appoint a person to fill the vacancy, with the approval of a simple majority of the Board of Control.

ARTICLE X: Governing Body: The government of this organization shall be vested in the Board of Control which shall meet at the call of the President or in his absence, by the next officer in charge, in the order shown in ARTICLE VIII of these rules and regulations.

Because all business of this organization is to be conducted by the Board of Control, any member of the Society wishing to inform himself as to this business, or to present any suggestion or project for the consideration of the Board of Control, is welcome to attend any Board meeting.

ARTICLE XI: Duties of Officers: President shall preside over all meetings of membership and Board of Control, and shall perform all other duties usually pertaining to this office, including appointing committee chairmen. Vice-President - shall assist the President and assume the duties of the President in the absence of that officer. He shall also act as chairman of the program committee. Secretary - shall record the minutes of all meetings and handle correspondence. Treasurer - shall collect dues and issue membership cards; shall receive and disburse funds upon the approval of the Board of Control; shall submit a financial report after an audit of the books, at the close of the fiscal year.

ARTICLE XII: Amendments: These Rules and Regulations may be amended as conditions arise, by vote of 2/3 of the Board of Control. Such changes will be announced to the club membership at the next regular meeting, and shall be published in the club bulletin or otherwise mailed to all members.



Grand Rapids Mineral Society  
Mrs. R. B. Smith, Editor  
1445 Breton Rd. S.E.  
Grand Rapids, Mich. 49506  
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(Rules and Regulations--3)

In case of a vacancy on the Board of Control, the President shall appoint a person to fill the vacancy, with the approval of a simple majority of the Board of Control.

ARTICLE X: Governing Body: The governing body of this organization shall be vested in the Board of Control which shall meet at the call of the President or in his absence, by the next officer in charge in the order shown in ARTICLE VIII of these rules and regulations.

Because all business of this organization is to be conducted by the Board of Control, any member of the Society wishing to inform himself as to this business, or to present any suggestion or project to the organization of the Board of Control, is welcome to attend any Board meeting.

ARTICLE XI: Duties of Officers: President shall preside over all meetings of membership and Board of Control, and shall perform all other duties usually pertaining to this office, including appointing committees. Vice-President - shall assist the President and assume the duties of the President in the absence of that officer. He shall also act as chairman of the program committee. Secretary - shall record the minutes of all meetings and handle correspondence. Treasurer - shall collect dues and issue membership cards; shall receive and disburse funds upon the approval of the Board of Control; shall submit a financial report after an audit of the books, at the close of the fiscal year.

ARTICLE XII: Amendments: These Rules and Regulations may be amended or modified in whole or in part by vote of 2/3 of the Board of Control. Such changes will be announced to the club membership at the next regular meeting, and shall be published in the club bulletin or otherwise mailed to all members.