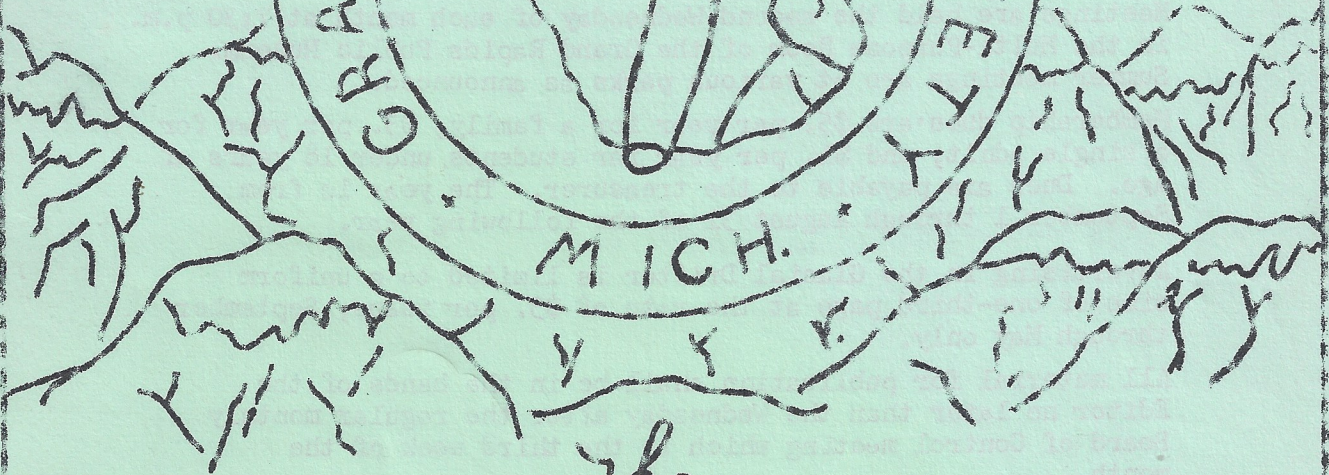
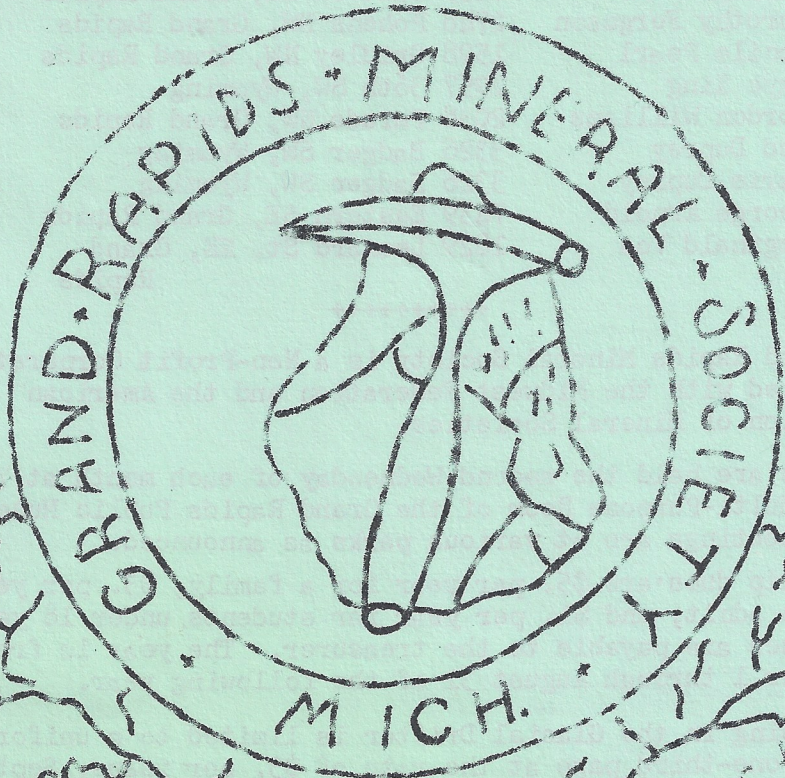


MAY 1972



The

GRAND RAPIDS MINERAL SOCIETY

BOARD OF CONTROL

President	Roger King	1957 36th SW, Wyoming	532-6239
Vice-President	Robert Beauvais	3308 Wilson SW, Grandville	534-3871
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	Marie Duprey	3326 Badger SW, Wyoming	532-3841
	George Arnold	7439 Eastern SE, Grand Rapids	698-8856
	Reginald Vos	1829 Leonard St. NE, Grand Rapids	459-2729

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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. in the Multi-Purpose Room of the 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.

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EXCHANGE EDITORS - PLEASE NOTE:

All exchange bulletins should be addressed to:
Mr. Gordon Williams, Editor
2038 Parade NW
Grand Rapids, Michigan 49505

THE GLACIAL DRIFTER

VOLUME 14 NO. 9

MAY 1972

MAY MEETING

Place: East Building, Grand Rapids Public Museum
Time: 6:30 p.m. - Pot Luck Dinner - Election of
(see President's Rockroom) Officers
Program: MWF Slide Program "The Copper Country
and Its Minerals"

G.R.M.S. CALENDAR

- May 15 - Board of Control at Roger King's
May 31 - Mineral Study Group at Nellie Mead's
Regency Park, 2506 Normandy Dr. G.R.
May 20 - Field Trip to Rensselaer, Indiana (see Field Tripping)
June 13 - Picnic Meeting. You will receive more information
as to the place later.

COMING SHOWS

- May 12-14 Rockfest '72, Kitchener, Ontario
May 20-21 Cuyahoga Co. Gem & Mineral Show
Cuyahoga Co. Fair Grounds, Eastland Rd., Berea, O.
May 20-21 Clare Rock & Mineral Club, Centennial Museum,
Sanford, Mich.
May 20-21 Wonderland of Gems, Fairgrounds, Kalamazoo, Mich.
June 3-4 State Line Gem & Mineral Society Rock Swap
Fulton Co. Fairgrounds, Wauseon, Ohio. Free Camping,
shade, fun swapping, open Friday evening
June 3-4 Rock River Valley Gem & Mineral Show. Presenting
Olive Colhour with 6 cases of her own beautiful
creations. At the Wagon Wheel, Rockton, Ill.
July 19-24 Midwest Federation Convention, Ishpeming, Mich.
Aug. 1-5 Bancroft Rockhound Gemboree, Bancroft, Ontario

FROM THE EDITOR'S ROCKROOM

Election of officers for the next G.R.M.S. year will be May 10.

The editor agreed to allow his name on the ballot to present a complete slate of officers. I am now happy to report, as will others, that a new name will be on the ballot.

The past two years have been great fun. However, it is my firm conviction that the vitality of any organization lies in wide participation by its members. So it is with the Drifter. It needs another touch and now will have it.

To all of you who submitted material, to the officers, the Beauvais' (the publishers who worked far harder than I), and everyone else who helped so unstintingly--thanks so very much.

To our exchange editors - watch the June issue for the new name and address for your mailing.

Good hunting!

Our sympathy is extended to Mrs. Glenn Marvin and her family. Mr. Marvin passed away on Sunday, April 23. He had been a member of G.R.M.S. for several years

CAN WE BREAK A HABIT? Bob Beauvais reports that he was looking through some material he inherited along with his job as vice-president and became interested in reading the 1971 Nomenclature Supplement of the American Federation of Mineralogical Societies. Under recommendations of the Commission on minerals for which more than one name is in common use he found two which surprised him. The commission advises us to use Celestine, not celestite, coelestine, coelestin, or zolestin. And it recommends Baryte, not barite, barytine, barytite, or schwerspath. There are 27 others listed, but in most cases we are familiar with the correct name, but these two were a surprise. This Nomenclature Committee uses as its sources the American Mineralogists Publication January 1-December 1, 1970 and the British Mineralogical Magazine, January-December and British Abstracts.

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Only the guy who isn't rowing has time to rock the boat.
Gem Scoop via Rock Dobber

FROM THE PRESIDENT'S ROCKROOM

This will be my last article before the coming summer, so I would like to tell you about the rock hunting trip we have just made, on the 21st, 22nd, and 23rd of April. This was to Keokuk, Iowa again to hunt for geodes.

When I planned this trip last winter there were quite a few people who said they wanted to go, but due to work and car problems not any of the originals were able to go.

On Thursday afternoon, April 20, we received a surprise phone call from Ernest and Ruth Potter telling us that they would like to meet us in Keokuk to hunt with us. This was a very pleasant surprise because we do enjoy hunting with our fellow rockhounds.

So we had a very nice group: the Potters in one car and in our car there was my wife and sons, Lance and Michael, and one of our neighbor's sons, Donny Anderson, and myself. Donny is nine years old and this was his first rock hunting trip. He sure did enjoy it.

We arrived at the motel at 10 a.m. Friday, driving for seven hours in the rain, but a little rain will never discourage a true rockhound. My wife decided to stay at the motel with Michael. He has been ill so much of his life that we did not want him to get wet. She was to watch for the Potters so she could tell Ernie where to find us. Lance, Donny and I went off to look for geodes in some of the muddiest creeks I have ever hunted in. The boys and I had a good time getting super dirty and finding lots of good geodes. We were just coming out of the creek when we ran into the Potters. We talked over the situation and decided to try out a new creek.

Both boys were sleeping when we arrived there, so Ernest and I took a walk down the creek while Ruth stayed with the boys. This creek had a lot of geodes in it, but it also had been picked over quite a bit by other rockhounds. We walked about a quarter of a mile down when it started to rain and by the time we got back to the car we were wet clean through. We drove back to the motel which ended the hunting for Friday.

By Saturday the weather cleared up so Ernest and I decided to go out early to try and find new places to hunt. We covered a large area south of Hamilton, Illinois. We found the right formation (Warsaw) in many places, but there were not any geodes in it. So we went back to the motel to pick up the rest of the group. We then went to look for new places in Missouri. Just about the whole of the day was spent there but we never found a geode. We did have an experience I don't think any of us will ever forget. We took a road that was marked on the map as ^{an} improved dirt road. It was the worst road I think I have ever driven on in my life. It was all clay and after 2 inches of rain from the day before it was like soup. We were lucky we both made it through without getting stuck. I would think twice before ever driving down a road like that ever again. It was really something!

(concluded on page 4)

FROM THE PRESIDENT'S ROCKROOM (concluded)

At the end of the day we did get over to Gray's Quarry at Hamilton and dug geodes until the sun set in the west. But the hunting there was the best I have ever had so we ended up with some pretty nice geodes, ending another great rock hunting trip.

I will be thinking of going back to Keokuk later on this summer, if you are interested in going please let me know. I have some new places to check out with the possibility of finding some nice geodes. It really is a lot of fun. So come on, all you rockhounds, and join us.

Our May meeting brings up the election of officers. Study over the candidates and vote for the one that you think would be best for the job. Let's all work together to make this year's election a good one.

Our co-chairmen for the pot luck supper are Mrs. Arnold (Joyce) Wendt and Mrs. George (Marilyn) Arnold. Don't forget to bring two dishes to pass. The more food we have the better the appetites. And bring your own table service. Rolls and beverages will be furnished.

At the Board Meeting this month we discussed the coming events. The joint rock swap with the Indian Mounds Rock Club is planned for September. It has been moved into September so it will not interfere with vacations. It is hoped this date will work out better.

I would like to give a special thanks to Jim Frans for a beautifully prepared program on birthstones at our April meeting. I truly enjoyed every bit of it and I am sure everyone else did too. Thank you, Jim, we are all glad to have you as one of our members.

Also a big thanks to our June Smith for the fine movie on the Great Lakes. It was a delightful added attraction, very entertaining as well as informative. Thank you, June.

We also have a number of field trips coming up this summer. So come on, all you rockhounds, let's all get out and enjoy our hobby. Have a good summer with lots of good luck in your hunting, or whatever you plan to do.

-Roger King

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THE NOMINATING COMMITTEE for 1972 submits the following slate of officers:

President - Robert Beauvais	Vice-President - Arnold (Bob) Wendt Richard Van Beek
Secretary -*Marilyn Arnold Nellie Mead	Treasurer -*Dorothy Ferguson
Historian - Arlene Mulder Sandie Faole	Liaison Officer -*Faye King Joyce Wendt
Editor - Arthur Ferguson	
Board of Control - Karl DeBack Marvin Mulder *Reginald Vos	Ruth Potter Ernie Potter Lucile Pearl
*Incumbent	Jim Frans

SUMMING IT UP - "THE MIRACLE WORLD OF MINERALS"

In this final "wrap-up" of our 13th annual rock show, "The Miracle World of Minerals," we would like to thank Gordon Williams for producing the brochures which the hosts and hostesses passed out to the visitors.

Faye King, Refreshment Chairman, did her usual great job of seeing to it that our members had enough to eat both for the noon meal and for snacks on "set-up" day, March 4. To Marie Duprey goes our thanks for preparing the delicious barbeque. We also thank Reggie and June Vos for the use of the typewriter with large type.

The official attendance was 18,770. This figure breaks down to 14,127 who came thru the Jefferson Ave. entrance and 4,643 thru the Washington St. entrance. This does not include the 3,303 who purchased tickets for the planetarium show, many of whom undoubtedly also went thru the museum and saw our show. Any who may have entered by one of the other entrances missed being counted.

After handing out the exhibitor's ribbons at the last meeting we had two more left than we thought that we should so if any exhibitor did not get a ribbon let us know. We are still looking for the owner of the three cigar boxes of fossils which became mixed in with our things on March 4.

Following a suggestion from Em Van Vuren we had a visitor's register this year. A few of the comments are: "Very interesting"; "Good. Less repetition of some materials"; "Excellent"; "Your shows are always good!!!"; "O.K."; "Very impressed"; "I feel this is the best yet"; "Excellent displays especially rock exhibit"; "Very educational"; "Great"; "Artistic"; "Good educational program"; "enjoyed very much." Not nearly everyone registered, of course, but here is a list of the home towns of those who did, either in ours or the museum's book:

(unless otherwise specified, the towns are in Michigan)

Vestaburg	Grand Haven	Comins	Wyoming
Big Rapids	Fremont	Grandville	Lowell
Cedar Springs	Jenison	Hudsonville	Byron Center
Bay City	Muskegon	Cascade	Grenoble, France
Kentwood	Windsor, Ontario	Middleville	Ada
Holland	Allegan	Standale	Battle Creek
Saugatuck	Hamilton	Sparta	Laings
Hastings	Leslie	Chicago, Ill.	Newaygo
Conklin	Greenville	Saranac	Lake Odessa
Kalamazoo	Ionia	St. Thomas, Ont.	Kent City
East Jordan	Niles	Kalkaska	Clarkston
Boston, Mass.	Ann Arbor	Ironwood	Lakeview
Marne	Fridley, Minn.	Sturgeon Bay, Wis.	Houghton
Zeeland	Portage	Covert	Romeoville, Ill.

(continued on page 6)

"THE MIRACLE WORLD OF MINERALS" (continued)

School groups and Scout troops attending: (figures are numbers in group)

Forest Hills High (185)	Jackson Pk. Junior High (90)	Kentwood (60)
Lakeview High (30)	Scouts (20)	Brookside
Holland 8th (42)	Grandville Jr. High (90 plus 5 teachers)	Campau Park
Grandville High (60)	Parkside (60 plus 4 teachers)	Coit Headstart
Cub Scouts (35)	Zoeland Elementary (25)	Portage (120)
North Park (65)	Grandville Special Ed.	Lowell (60)
Burton Ungraded (34)	East Elementary, Grandville	Kendall (25)
Central Elementary	Jefferson Elementary (22)	Covert (20)
West Elementary (120)	Muskegon 7th Day Adventist (10)	Huff (40)
Educational Park (20)	West Side Christian (42)	

And now for the complete list of everyone who helped make "The Miracle World of Minerals" a success. We hope that we haven't overlooked anyone, but if we have let us know and you will be acknowledged later. Some have participated in more than one way (as many as five) such as host or hostess, demonstrator, exhibitor, chairman, etc.

Museum Personnel:

Norma Raby	W. D. Frankforter	Jean Gorecki	Jim Marler
Eleanore Poelstra	Frank Burtt	Jerri Rau	Anna Fraser
Dave DeBruyn	Elmars Karklins	Terry Viele	Jim McDonald
Evelyn Fox	George Hamilton	Anne Leiber	Liza Wainoris
Evelyn Grebel	Horace Frownfelder	Milda Purins	Ardath Allen
John Schippers	Bob Bushewicz	Dale Smith	Abe Postema
Pat Fortuna	Pam Key	Robert LaMora	Beryl Leiber
Janet Hook	Ray Reindersma	Jerry Huffman	Billy Lyons

Larry Fegel and his "Junior Rockhounds":

Tim Smith	Brad Hoag	Chico Vega	Tony Endres
Jeff Endres	Ned Endres	Ken Blakeley	Denise Blakeley
Cindy Blakeley	Jane Ward	Shelly Baker	Sheryl Sams
Jim Zarembo	Norman Thomas	Jeffrey Shusta	Susan Lucasse
David Huizenga	Tom Stuecken	Peggy Dunning	Paul Wondolowski
Susan Wondolowski	Mary Beth Richards	Laura Perry	

Other club members:

Marilyn Arnold	Mrs. George Walcott	Leona Crabbs	Paul Miller
George Arnold	Jimm Miller	Jim Crabbs	Dan Miller
George Arnold, Jr.	Karl DeBack	Steve Crabbs	Arnold Wendt, Sr.
Greg Arnold	Ruth Steele	Janet Crabbs	Elsie Wendt
Henry Tchozeski	Ted Duprey	Kim Crabbs	Arnold Wendt, Jr.
Bette Tchozeski	Marie Duprey	Jim VanVuren	Joyce Wendt
Nancy Tchozeski	Randy Main	Em VanVuren	Helen Slavinskis
Steve Tchozeski	Chuck Corey	Ginny VanVuren	Gordon Williams
Joyce Tchozeski	Dave Byrne	Ken VanVuren	Dorothy Williams
George Walcott	Don Crabbs	Joan Miller	Nellie Mead

(more on page 7)

"The Miracle World of Minerals" (continued)

Dick Lemmink	Tom Zandee	Dora Hurd	Dr. Robert Smith
Gert Lemmink	Marian Jennings	Karl Bruder	Elaine Smith
Edward Mroz	Lucile Pearl	G.R. Junior College	June Smith
Don Kinsey	Bob Beauvais	Stan Wondolowski, Sr.	Bob Smith
Sandi Feole	Ruth Beauvais	Fran Wondolowski	Matt Smith
Marc Feole	Rob Beauvais	Stan Wondolowski, Jr.	Peggy Atkin
Jeff Feole	Art Ferguson	Clyde Littlefield	Marguerite
Kris Feole	Dorothy Ferguson	Elizabeth Littlefield	Petersen
Pete Boogaart	Marie Spielmaker	Ernie Potter	Marvin Mulder
Crystal Boogaart	Dr. Richard Rose	Ruth Potter	Arlene Mulder
Jim Zandee	Erwin A Skins	Roger King	Reggie Vos
Don Zandee	Ford Hurd	Faye King	June Vos

We don't know where to begin or end with the news media thru which we received very fine coverage thanks to the efforts of Terry Viele of the Museum. There were several articles and numerous announcements in the Grand Rapids Press and also articles in the Walker "Advance" and the "Grand Rapids News" and perhaps other suburban papers which have not come to our attention. We have also been told that WOOD radio made many announcements and WOOD-TV covered the show on newscasts. Unfortunately we do not have the names of any individuals.

We would also like to thank "Bozo", the program director, cameramen and other technicians of WZZM-TV for their interview of Dan Miller and Don Zandee. Our thanks also go to Fran Harding, Ed Phelps, Program Director Dan (didn't get his last name) and the cameramen and technicians at WKZO-TV for the interview on "Accent." The people at WKZO were very interested and asked many questions about the rocks we had along before going on the air and afterwards said that next time they would have to allow more time than the 7 minutes and 20 seconds allotted for our segment this time.

Once again thanks to all who participated.

-Rich Van Beek, Chairman

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ONE OF OUR BUSY MEMBERS REPORTS: On Monday, April 24, I gave a rock lecture to Kenny's (my son) class. They are studying rocks. I took about 10 different types of rocks, unpolished, polished and the rock set in jewelry to show the children. After the lecture I gave each of the children a piece of pyrite and marcasite (which Marie Duprey donated) and made them real happy. After this the children brought rocks up to me to identify them. They are finding rocks very interesting. I also find it is getting Kenny a lot more interested in the hobby of collecting rocks.

-Em VanVuren

DID YOU KNOW? . . . In Dorset Mountains in Vermont, a cavern of over eleven acres has been cut from almost solid marble. The roof is held up by pillars of marble, left standing, 30 feet thick by 80 feet high.

S H O W A F T E R M A T H

Did you know that. . . fifteen members loaned over 240 specimens comprising 102 different minerals in ten classes for display in the club cases for our 13th annual show?

I wish to thank Karl DeBack, Ted and Marie Duprey, Art and Dorothy Ferguson, Ford and Dora Hurd, Roger and Faye King, Clyde and Elizabeth Littlefield, Nellie Mead, Lucile Pearl, Ernie Potter, Dick Rose, Robert and Elaine Smith, June Smith, Rich Van Beek, Jim and Em Van Vuren, and Arnie and Elsie Wendt for allowing me to raid their collections for our mineral display.

Dorothy Williams did a beautiful job of arranging "The Miracle of Appearance" case, and Ernie Potter was a great help to me in arranging "The Miracle of Chemistry" case, while my ever-loving spouse put together the Michigan specimens in the "A" case in the middle of the hall. We both worked on "The Miracle of Discovery" case.

Ruth accuses me of going to our contributors' homes and saying, "I'll take that -- and that -- and this -- and this," but I really don't think I was quite that demanding. I did ask if I could use a specimen here and there!

I enjoyed planning and arranging the club portion of "The Miracle World of Minerals," and I learned quite a bit about the world of minerals too while doing it.

The museum staff was most cooperative and my special thanks must go to Ardath Allen who arranged for the painting and decorating of the case interiors, made the signs, and was very helpful!

Again, my thanks to all of you who had a part in this effort, and I'm not at all sorry that Rich asked me to take the job!

-Bob Beauvais
Mineral Display Chairman

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YOU MAY WANT THIS . . . From the U. S. Printing Office you can obtain "Gem Stones of the U.S." This catalog is excellent for collectors and lapidarists. It has 49 pages with illustrations and describes semi-precious and some precious gemstones and their principal locations. 25¢. Ask for Catalog No. 119.3:1042-G,

- "Puddin" Stone News"

HERKIMER DIAMONDS

by Ted Duprey

Let's take a trip east to hunt the beautiful and elusive quartz crystals popularly known as HERKIMER DIAMONDS.

We leave Wyoming, Michigan, after work around five in the afternoon, taking M-21 east to Port Huron, Michigan. We enter Canada across the Blue Water Bridge and travel east through Sarnia, Ontario. We then take highway seven and highway 22 to London, Ontario, arriving around ten in the evening, and camp overnight at Fanshawe Park, which is on the North End of London.

After a very restful night we arise around 5:30 a.m., eat breakfast and are on our way by 6:30 a.m. We take Highway 401 east to Woodstock where we join Highway 2. On 2 we continue east, past Brantford, and join Highway 53. Staying on Highway 53, we skirt Hamilton, and continue until we come to Highway 20. On 20 we go through Stoney Creek and make our way to the Queen's Highway. We travel the Queen's Highway until we join Highway 405 which takes us back into the United States across the Lewiston-Queenston Bridge.

We are now on I-190 which takes us through Niagara Falls, N.Y., across Grand Island. After crossing we leave I-190 at I-290 and continue until we join the New York Thruway. We stay on the Thruway until we come to Exit #30. Leaving the Thruway at this point, we go through Herkimer, N.Y. to Highway 28.

We now take Highway 28 to the town of Middleville, N.Y. As we approach Middleville, we begin to see the signs advertising the diamond digging locations.

We make arrangements to camp at one of the several camping sites in the area, and then go to one of the quarries. Paying our fee, we enter and find a likely looking place and start to work. (I prefer the Ace of Diamonds.)

We get out our equipment, heavy chisels, shovel, pick, and several hammers. (Ranging from rock hammers up to eight or twelve pound sledges.)

The material that we have to break up is a grayish to slightly brown dolomitic sandstone, known locally as the Little Falls Formation. This material is quite hard and never cracks the way you want it to.

Just a note of caution: One should wear safety glasses or goggles and safety shoes (tennis shoes are all right if one wants sore toes, sore feet, and possibly a broken or sprained ankle). Good gloves are a must.

In cracking the rock one looks for cavities and if lucky will see the crystals sparkling back. In the cavities and seams one will find at times a very gooey clay substance, which should be checked for crystals.

The first time we were there, we found small pink crystals, which we threw away because they were not what we were looking for. These crystals, we found our later, were very good dolomite crystals.

In some of the cavities one will find a black substance, which according to some geologists is a material called anthraxolite. Sometimes this material will appear as inclusions in the quartz crystals. Upon very careful examination of the crystals one will find that some of these inclusions are on old faces that have been covered up with more quartz, appearing as phantoms.

(concluded on page 10)

HERKIMER DIAMONDS (concluded from page 9)

Some individuals have found the crystals with bubbles of water in the crystal. I have asked geologists why liquid should appear inside the crystals, and I always get the same answer. When you find out let me know. My theory is that the liquid was trapped during perhaps rapid solidification of the quartz material. Other crystals have been found that contain small amounts of pyrite, siderite, hematite, limonite, calcite and sphalerite.

from "Arrowhead News"

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DOWN THE LAKE TO A ROCK SHOW

Friday evening, April 21, Ted and Marie Duprey, Jim, Emily and Ken Van Vuren left for Warren Dunes State Park. This was the first time all of us were ever at this park and found it a real nice place to camp. When we got there we ate supper, talked a while and went to bed. The next morning (Saturday) we got up and had breakfast and Kenny was just dying to walk the sand dunes, so we had to follow after him. We walked over the dunes to Lake Michigan and did a little rock hunting on the beach.

After the hard walk we went back to camp where everyone was complaining about being hungry again so we ate dinner. Then we decided to go and find Bear Cave. It is one of the few caves found in the Great Lakes area. We found it and took a tour through it. The cave is four miles north of Buchanan, Michigan, and is quite interesting. At least we can say we were in Bear Cave. After the tour we headed back to the campground and had supper and went to bed early.

The Michiana Club Show was held in the gym of a school at South Bend. They had some wonderful displays and demonstrations. One man was making spheres (round balls) out of rocks which were just beautiful. Another demonstration was wire jewelry. Taking a small rock of any kind and wrapping wire around it to make rings, necklaces and such. At the show we ran into Mr. & Mrs. Hollis Merrick. They sure do get around. It was a long day as this was only a six hour show. Around 6 p.m. we took out our displays and headed for home, all tired out but we had a real good time.

-Em Van Vuren

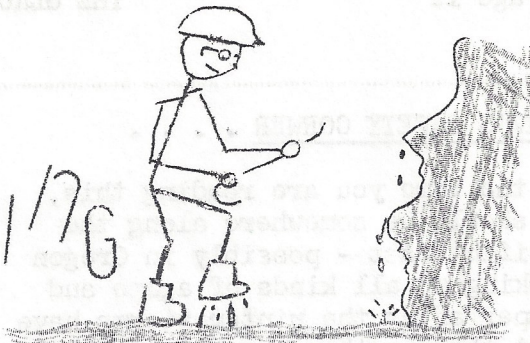
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SAFETY TIP: Breaking rocks. - To avoid the obvious danger of skinning your knuckles or bruising your hand while attempting to split a rock, have your wife hold it. . . Chuck Pierce, MLS Bulletin, Little Gem - via Geode and Tulip City News

(How about it, girls! Our editor really took a chance when he selected the tip above. Maybe we'd better call a meeting of the Rockhound Wives and start a protest!)

FIELD

TRIPPING



On Saturday, May 20, we are scheduling a field trip to Rensselaer, Indiana, where marcasite, pyrite, dog-tooth calcite, and fossils are to be found.

Roger King, who has been there a number of times suggests that you take M 21 to Holland, I 196 to the end, then I 94 to the end, M 238 and Indiana 39 to the Indiana Toll Road at La Porte. Get off at the next exit (6) and take US 421 south to Indiana 114 (a good 45 miles). Go right (west) about 7 miles to the Northern Indiana Stone, Inc. Quarry on the northern side of the road, just before Pleasant Ridge.

Roger says that it is impossible not to get dirty here as the rocks are covered with oil (petroleum). He advises you to wear old clothes since you will not be able to get them clean. He also advises getting plastic drop cloths (available for about 69¢ from the supermarket) to put over the seats and floor of your car. There will be more details at the meeting about "releases."

If you have been getting off I 94 at New Buffalo and taking US 12 to Michigan City, then Indiana 212 to US 421 - don't - there is a bridge out there and you will get messed up with Michigan City traffic. We found that out on our last field trip to Illinois.

-Rich Van Beek
Field Trip Chairman

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SHOP HELP

Here's a labor-saving gimmick that may be of interest to some of our fellow rockhounds.

One day, when faced with the uninteresting job of polishing the backs of a bunch of cabs. I tried a quick method with great success:

We have a "powersage," the type of vibrator fitted on the back of the hand that works such miracles when massaging those back-of-the-neck headaches. I put it on the back of my hand, a cab under each finger and moved them slowly around on a pane of glass covered with polishing compound. With the electrical vibration I was able to polish sixteen cabs in thirty minutes.

I haven't tried it with any other type of vibrator, but it may work with any electric razor or hair clipper taped to the back of the hand. It's worth a try anyway.

(Written by G. Klassen for Canadian Rockhound and found by us in The Prospector--via Puddin'stone News")

MARV'S SAFETY CORNER

By the time you are reading this, we should be somewhere along the Pacific Coast - possibly in Oregon picking up all kinds of agate and jasper after the winter storms have left them on the shore. We'll be there, that is, if we don't have any accidents, and the safety chairman, of course, shouldn't have any of them!

Don't forget the little First Aid booklet you got at the last meeting. If you haven't read it yet and put it with your field trip first aid kit, STOP reading ^{ing} right now and go get it. Don't forget to come back and finish reading this though after you've done that.

On the subject of safety, I overheard a comment at one of our field trips last summer that went something like this, "Look out! Better get out from under that big rock - here comes the safety chairman." Just think about that! The safety chairman wasn't going to get hurt when the rock fell, it was the guy under the rock. He's the one who should have looked the situation over very carefully before crawling under it.

Safety is your job. The job of the safety chairman should be only a gentle reminder now and then.

Work safely, drive safely, and play safely (digging rocks, that is).

-Marv Mulder

Johnny Horizon says: "This is your land, keep it clean!"

PLEASE NOTE. . . .

Dr. Bastiaan Van Elderen of Calvin Seminary will show slides and speak on "The Evidence of Ancient Man (Hittites and others) in Asia Minor (modern Turkey) with special consideration given to the founding and rise of Christianity." After one of his expeditions here, his car, squeezes (rubber impressions from inscriptions on monuments) and field notes were lost when the ship carrying them collided with another and sank in the Atlantic Ocean. This will be Dr. Van Elderen's last presentation before returning to the Middle East (Jordan and eastern Syria) for the eighth time, this time for two years. This program is open to the public and will be at the regular monthly meeting of the Archaeological Society at 8 p.m. on Thursday, May 18, and will be held at the Blandford Nature Center at 1715 Hillburn Ave. NW (notice change of location).

-Rich VanBeek
Program Chairman
Archaeological Society

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A SECTION OR A LIMB CAST? Do you know the difference between a SECTION and a LIMB CAST? It seems some people call a specimen by either name, not realizing that there is a difference.

A LIMB CAST occurs when a limb decayed or was destroyed and the void filled with agate or some other material, but was cast in the form of the original limb.

A LIMB SECTION is simply a section of a limb that is either opalized or agatized, in other words, petrified.
--from Mesabi Media via The Rock Vein

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An imitation diamond is never as brilliant as a genuine stone. If your eyes are not experienced enough to detect the difference, a simple test is to place the stone under water. The imitation diamond is virtually extinguished, whereas the genuine diamond sparkles under water and is definitely visible.
via The Pseudomorph

WE DIG THE U.P.

In November Roger King gave you an account of his fast trip rock hunting in the Upper Peninsula. Well, you don't really have to do it in such a hurry. We did about the same trip, but in a more leisurely manner--taking two weeks. Roger did it in three days! Here's our story. . . .

The trip began in earnest at the Carp River National Forest Campground north of St. Ignace early in August when Elsie and Arnie Wendt arrived on a Friday evening, took possession of a group camp and were joined Saturday by Bob and I with Jeanne and Bruce, and late that evening by Dorothy and Art Ferguson with Pat, their daughter. That made a camp of two travel trailers, one tent trailer, and Jeanne drove her own car and trailed her little 12 foot sailboat, a Butterfly. The younger generation in this crowd was not enthusiastic about rockhounding.

Art had heard about some different fossils to be found along the Neebish Channel shore so after breakfast Sunday morning the kids were dispatched to Tahquamenon Falls and the other three cars, complete with trailers headed east and north. Directions were a little fuzzy--that was apparent when we suddenly were confronted with an armed guard and an impressive gate blocking the road ahead. It seems that Art had led us right to a back entrance of Kincheloe Air Force Base! That guard didn't give us much time, he needed the road clear for a convoy which was due, and he wasn't smiling patiently as he watched as all three trailers were maneuvered around and headed back the way they came! We couldn't help wondering if this was an omen--was this the kind of luck we were going to have on this long-looked-forward-to trip? We finally found the channel, but all the rocks were on the other side, it was too wide and deep to wade, and the little sailboat was at Tahquamenon. We willingly gave up the idea of fossils and headed west.

I had more doubts about luck as we turned off M 28 onto M 221 heading toward Tahquamenon to meet the kids. We were last in line--and guess whose trailer had a flat tire? Well, Bob changed that while I tried to be useful, and then we needed air for the spare. First we went north a bit, found a station but it was closed; then we turned back south to one we had passed on M 28; their compressor was out of order; then back north again, where we eventually found a station open. At the entrance to the Rivermouth Campground of Tahquamenon State Park we found our anxious friends lined up along the road like hitchhikers watching for us. Art was just ready to start back in his car. But they were camped and had a site for us so all was well.

Next day we headed for Marquette and camped in the city campground, in a circle reminiscent of the pioneers. There was time after supper to investigate Presque Isle Park and marvel over the shoreline of Lake Superior composed of old lava beds. The following morning we went looking for Kona dolomite, south of Harvey on County Road 553. We were disappointed to find it rather dark, not the lovely pink we had looked forward to. Since then, however, Arnie has polished a piece and it is pretty, pink, and perfectly lovely.

Like Roger, we were following the instructions taken from the lecture by Robert Seacor, "Mineral Collecting in Marquette-Baraga-Ontonagon Counties" as published by the "Conglomerate" of the Michigan Mineralogical Society.

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We Dig the U.P. (continued from page 13)

Mr. Seasor is a graduate of Michigan Tech at Houghton and is now Resident Geologist for the White Pine Copper Company.

We went back to Presque Isle in the afternoon to take pictures, as it had been too late the evening before, stopping along the way to watch an ore boat being loaded. We were supposed to find some old mine shafts where lead-silver was prospected for, but we didn't. Leaving Marquette we went through Ishpeming and to the old Ropes Gold Mine. Here we looked for arsenopyrite, but found little. This was the main gold-bearing ore in the mine, and occasionally native gold is found here, Mr. Seasor says, but not by us! Next we walked on down the road to the old quarry which yields good serpentine marble (Verde Antique). Of this we found all we could carry. Did you notice the piece Arnie polished which was in the Michigan mineral case at the show? It resembles a lovely woodland scene.

Rock hunters are usually interested in nature and we are no exception. Both Bob and Art took some good pictures of an amazing number of wildflowers new to both of them, and we found many interesting mushroom varieties, all of which we cautiously left right where they were!

The next day we drove on to Michigamme and camped at Van Riper State Park. The first place to go, naturally, was the old mine at Champion, where we couldn't resist picking up pieces of specular hematite from the silver-frosted ground. Mr. Seasor had directed us to a road going north out of Champion where one could find gruenerite, limonite and goethite. But we found only one road going north and that ended in someone's backyard, so that idea was given up.

Still following directions we found Imperial Heights, just west of Michigamme and went looking for a staurolite site but never found it. Neither did Roger, we later learned. After lunch at a roadside park (most of our lunches were picnics, shared by all) we went to Alberta. This was one of the good places. We followed the instructions with no difficulty: "about 1/3 mile north from Alberta, go to the first road intersection off US 41 that has a stop sign. Turn right here and follow this road for about a mile and a quarter. It's a good gravel road that can be traveled by any passenger vehicle. When you get to about the third road that leads to the east, turn to your right. Visible in the woods as you turn is one of the biggest glacial erratics I have ever seen. It sits on the surface and can easily be seen. There's also a sign that says 'Travel at your own risk!' Don't be concerned as our area of interest is only twenty or thirty yards up this road. Here you'll see some faint wheel marks that lead off to the left. Turn here, and drive in a few yards and park."

We found the sign was pretty well gone, but the glacial erratic was there just as promised! Most of us didn't know that a glacial erratic is a foreign sort of rock dropped by the glacier in a rather unlikely spot. In this case it is a huge rock of a blackish material, perhaps 10 feet high, 25 feet long, and eight feet wide--quite an interesting thing to find in the heart of a wood. On our return we stopped to inspect it better, walking all around it. But first we went on to the pyrolusite we were looking for. We found the lane in the wood, cutting through some pyritic shale. There's also an old

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We Dig the U.P. (continued from page 14)

pit where graphite is found. Further on we found a pile or rubble, made by a million rockhounds, says Mr. Seasor. It used to be a small hill, now it's a pit. By working into the plane of the rock and being careful to separate the layers you come up with some good rosettes of crystallized pyro-lusite. We did, and were delighted. So were the mosquitoes, who found us a great treat. Otherwise this was rockhunting at its best, a hot day, a cool wood, what more can you ask? Oh, yes--"Off!" - and plenty of it!

Jeanne had a chance to sail her boat in the lake at the park that evening but the wind went down and they didn't make much progress. By this time the week end was approaching and we wanted to camp at McLain State Park. Just a word about state parks--this was the first week in August and we had little trouble finding a place to camp. We did start looking early, often arriving about noon. At McLain we had our first disappointment, we had to go into the overflow area. This means parking along a dead end road, but on the lake shore, which has its compensations. Only seven units were allowed so we were not crowded. The following morning we moved into the park itself. Most times we were able to camp very close to each other, often in adjoining camps. That afternoon the female contingent kept house while the male division went to Calumet and the Centennial Mine where they found some copper and epidote.

On Saturday we set off in two cars for Copper Harbor, stopping first near French Annie Creek for Thompsonite, and at the Delaware Mine for datolite. The Thompsonites were plentiful, although not of the best quality; as for the datolite--Art found two nodules and Arnie thought he had one but found out later he was wrong--otherwise, not much luck. Of course we visited Fort Wilkins and all the old mine shafts there, and then went back to camp via Brockway Mountain Drive, just as beautiful as ever.

Sunday was a quiet day, a day to rest. The only activity was a trip to Calumet for some of us to see the "Doodlebug" train pull out, and then on to Sedar Bay to look for agates on the wave-breaking shore of Lake Superior.

Monday morning saw us pull up stakes again, this time heading for Twin Lakes State Park. Here again we camped in a near circle, an ideal situation for the campfire we had almost every evening, when plans for the next day were made. The men went to Rockland and the Lake Mine at Mass City looking for copper, first paying a visit to the Algolah Trading Post at Mass City. Jeanne sailed her boat alone on the lake in an overenthusiastic wind.

Porcupine State Park was our destination the next day, without the trailers. The Beauvais contingent had never been that far west before in Michigan. First we stopped at the Algolah Trading Post so we women could see it. We found plenty of antiques here, rocks for sale, also datolite, and nice pieces of copper priced reasonably. Mr. & Mrs. O'Meara, the owners, welcome rockhounds. He must do a great deal of prowling around the country for he has an extensive collection of old things, and many, many insulators, the like of which we had never seen before.

This was Bruce's birthday, he was seventeen and a cake was in order. But the bakery at Ontonogon didn't have any cakes ready when we arrived but we
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We Dig the U.P. (concluded from page 15)

found a substitute. The recipe goes like this: take one paper plate, arrange a number of doughnuts on it in a circular pile, pyramiding them, decorate with candles, light them (if the wind doesn't keep blowing the matches out) and presto--a birthday cake which doesn't even need to be cut --everyone can help himself. With "Happy Birthday to You" sung in the outdoors, what more can one ask? Especially at seventeen!

Of course we viewed the Lake of the Clouds and the Camp Lake Mine Adit, even looked over the tailings on the shore of the lake, in vain. We stopped in White Pine although we knew the mine there was on strike. Also had a brief visit with a former minister of Art and Dorothy's who lives there now. Then a stop at the Minnesota mine for copper. Here you picture both Bob and Art with metal detectors searching; and Arnie just sort of moseying around, casually watching the ground. And who finds some of the nicest pieces? Arnie just reaches down and picks them up with no effort--he must have his own metal detector, built-in. We did find some copper here, and had a good chance to watch a lot of cedar wax wings all around us.

Next day it was time to pack up again, this time to start back to Van Riper but first we again made a stop at the Algomah Trading Post. I had to have an old crucible I had seen there and the others wanted more pieces of copper. Camped again, Dorothy and Ruth went to wash at the laundromat and the others went looking for garnets some old fellow had told Art about. They went to the Humboldt Mine but they weren't admitted, so no garnets. They also stopped at the open pit mine at Republic where they were able to watch the operations from an observation platform and to pick up some samples of pelletized ore. A stop at Mount Shasta yielded pseudomorph garnet in chlorite schist and magnetite. In the evening they tried a gravel pit near Van Riper, looking for agates, but their only reward was some great sunset pictures, plus many mosquito bites.

A side trip to Ishpeming occupied the next day--first stopping at Markert's Rock Shop to look and haul out the silver pick again. They gave us a guide to collecting areas and points of interest. This lead us to the Ogden Pit where we found banded magnetite and massive quartz, lots of it. On the way home we stopped again at Ropes and picked up more Verde Antique--Arnie was especially interested in polishing it. Of course we had visited Jaspilite Knob. In the evening there was another trip for the men back to the Champion Mine where they found some nice tourmaline. Bruce found an old washboard, parts of a miner's lamp, and some old school books; more interesting to him than rocks.

Like all good things, this trip had to end, and on Friday we headed back east, camping this time at Foley Creek Campground. Saturday we packed for the last time and headed down across the bridge and home.

Reading this over (if you are still with me) we are aware that we made no fabulous finds, but the number of rocks that came home with us was astonishing, and no one can ever assess the value of those two weeks in terms of good companionship, good humor, information gathered and exchanged, and just plain fun!

-Ruth Beauvais

Robert Beauvais, Technical Advisor

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