

MAR 59

THE



J A S P I L I T E

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of Mineralogical and Geological Societies

OFFICIAL PUBLICATION

of the

ISHPEMING ROCK & MINERAL CLUB

Published quarterly

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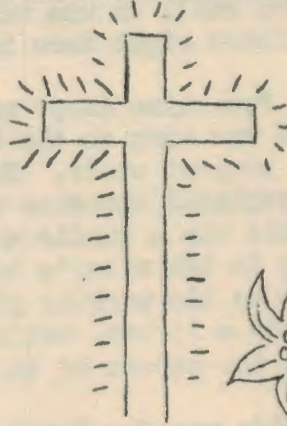
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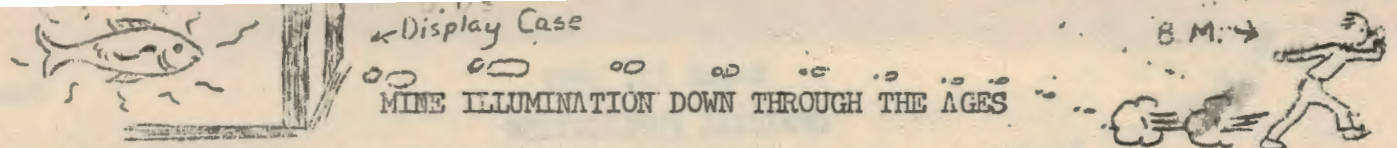
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Greetings
at
Easter!





Since the time that man first decided to go into the bowels of the earth in search of its ores and metals, it has been necessary to find some means of providing illumination. Some of these early types of illumination ranged from the bizarre to the ingenious.

Undoubtedly the first lights were simple torches and this is borne out by Pliny, who wrote that a silver mine in Basbelo, Spain, was lighted for a distance of 1,500 feet by torch-bearers. This mine was operated about 200 B.C.

Probably the most bizarre of lighting methods was to be found in the fiery coal mines of Britain. Here, where there was an ever-present danger from fires and explosions, the use of torches was very limited. One of the oddest means of producing light under these conditions was the use of putrescent fish. The dead fish gave off a faint phosphorescence by which the miners attempted to do their work. Another method used by these early coal miners to light up their working places was by the use of sunlight reflected into the workings by polished metal reflectors.

Although it may be hard for us to imagine such primitive methods of lighting, we must remember that torches, while furnishing a much better light, were very dangerous to use in coal mines where fires and explosions from methane gas were an ever-present danger.

Another ingenious device which was used about this time was the "flint and steel mill", which was in use as early as 1733. This consisted of a small-toothed wheel which was made to turn a larger wheel of steel, the edge of which revolved against a piece of flint, producing a shower of sparks that gave just enough light to enable work to be carried on. This machine required one boy to operate it for each miner.

The earliest types of mine lights which are within the scope of memory of our present day miners are the "sunshine lamp", the "candle stick", and the "carbide lamp", for these were still in use well into the twentieth century and were familiar to our iron and copper miners right here in the Upper Peninsula of Michigan.

The "sunshine lamp" was built on the order of a small metal teapot with a wick in the spout and was worn on the hat of the miner. It burned a paraffin-like oil which gave off a black, pungent smoke. Needless to say, it wasn't a very popular lamp with the miners and was replaced whenever possible with the "candle stick", which was also in use at that time. This was a candle mounted on a long, pointed piece of steel with a small hook for attaching to the miner's hat. The candlestick was usually carried on the hat until the miner got to his working place at which time it was removed and the point of the steel driven into a timber, making a more stable light. This light was in more or less general use until the advent of the more modern carbide lamp.

Carbide was developed in 1859, but a method of manufacturing it was not perfected until 1895. Carbide lamps for use underground appeared about 1905. This was a revolutionary phase in underground lighting, because for the first time a miner had a bright and fairly consistent light that could be worn on the hat with the light beam directed at his work. Even today there are some small mines that use the carbide lamp.

Portable electric hand lamps were used in mines as early as 1890, and electric cap lamps appeared around 1903. The early models of electric cap lamps did not give as much light as carbide lamps, but provided an even, reliable light that needed no attention or re-charging during the working shift. It wasn't long before electric cap lamps became improved to the point where they were the equal of carbide lamps and have been improved steadily until today they are far superior to any other type of mine lamp.

EDITOR'S NOTE: We understand that Bernie has practically completed his collection of old miner's lamps. If those putrescent fish are part of that display, Bernie, I'm losing interest real fast!

Article by Bernie Dooley

CHARLES C. HAWES

The Ishpeming Rocks & Mineral Club and the Midwest Federation of Mineralogical and Geological Societies will long pay their tributes to our well-known and beloved member, Charles C. Hawes, who passed away on January 30, 1959.

Charles was born in England on November 2, 1887; and before he was a year old, his parents moved to America and settled in Ishpeming, Michigan, where Charles lived until his death. Ishpeming had no more loyal supporter or better citizen in the person of Charles Hawes. He started work in the old hard ore laboratory while in High School, and then attended Lawrence College at Appleton, Wisconsin, where his knowledge of chemistry and mineralogy was developed. He returned to Ishpeming, where he became a chemist at the Morris-Lloyd Mine. In 1931 he became Chief Chemist of the Cleveland Cliffs Iron Company.

He was noted for his development of "A RAPID METHOD OF DETERMINING SULPHUR IN IRON ORE". This was the result of extensive research. Heretofore the so-called fusion method which was a long tedious process had been the only dependable method for the determination of sulphur. Many chemists from other laboratories became interested in this new method and came to consult Charles to learn the details. Since it was very rapid and accurate, this practical method was used extensively in mining laboratories.

Music as well as rock collecting was one of Charles' main avocations. He was a well-known tenor soloist in the community. For years he directed the choir of the Methodist Church, and in later years he was director of the Presbyterian Church choir. Charles was a member of the Rotary Club, the Presbyterian Church, the Michigan Mineralogical Society, as well as the Ishpeming Rock & Mineral Club.

It would take more room than we have available to accurately describe the fantabulous collection of minerals that Charles has amassed in the basement of his home in Ishpeming; however it goes without question that Charles' collection is one of the outstanding private collections in the Midwest if not the United States. The collection would be classified as a general one, with special emphasis on iron ores, and many could be rated as museum pieces. Practically every country in the world is represented in this collection. Many fine specimens in the Cranbrook Institute of Science at Bloomfield Hills, Michigan, came from Charles' collection.

For several years before retirement Charles started to assemble the many pieces of lapidary equipment to make his workshop as complete as possible so that he could further his enjoyment with his hobby. By the time of retirement his shop was completed, but sickness intervened shortly thereafter and Charles was not able to do the things that he planned. He never gave up hope even though his illness of the past several years was of a serious nature.

Charles has provided an endless source of inspiration and knowledge to his collector friends in the Ishpeming Area. The members of the Ishpeming Rock & Mineral Club have lost a truly great friend and fellow hobbyist, but he will always be remembered. Our heartfelt and deepest sympathy is extended at this time of bereavement to his wife, Hetty; son, Robert; and daughters, Mrs. Clifford (Margery) Hall of LaGrange, Illinois, and Mrs. David (Mary Jean) Cunningham of Milwaukee, Wisconsin.





MINUTES OF FEBRUARY 22 MEETING

The meeting was held at the Markert home at 2:30 p.m., with 21 members present. Our president, Ed. Carlyon, presided at one of the lengthiest business meetings of our club's history.

The Secretary's report was accepted as read.

A Thank-you note from Hetty Hawes was read.

On February 14, Ed Carlyon and Bob Markert spent the morning at the Ski Museum wiring a closet which will enable us to have some storage space and Ed also put a lock on a drawer.

The Treasurer, Bud Bamford, reported a balance of \$30.77 in the bank. Our largest expenditure for the year was \$58.00 to publish the Jaspilite.

Dues for 1960 will be raised. Bernard Dooley made a motion to increase the dues from \$1.00 a year to \$2.00 a year for the head of the family and \$1.00 for each additional member, not to exceed \$5.00. Junior rates will be \$1.00. Mrs. Abby Roberts supported the motion and it was carried.

A vote of thanks was given to Miss Carol Kokko for the wonderful work she has done on the Jaspilite.

In one issue each year we will include an "In Memoriam" for our deceased members.

Plans were made for a Spring Show. The date was set for June 25 and 26 at the Ski Museum. Elmer Jarvi brought a sample case to use for our displays. Orders for these cases must be in by April 1. These cases will rent for \$3.00 at the show or may be purchased for \$10.00 and the rental fee will be applied toward the purchase price. EVERYONE SHOULD DISPLAY! Those who do lapidary work are asked to demonstrate during the show. LET'S GO ALL OUT AND MAKE THIS A BANG-UP AFFAIR!

A motion was made to have Arm Patches made up in time for the show in June. We have 26 orders now, so please place your order as soon as possible as it will take some time to have these made up. They will cost no more than a dollar.

Election of officers followed. President—Bob Markert; Vice President—Bernard Dooley; Secretary—Marian Markert; Treasurer—Bud Bamford; Curator—Elmer Jarvi; Librarian—Elizabeth Rogers; Liason Officer—R. K. Richards; Editor—Bob Markert.

Bernard Dooley offered a motion that we make an effort to improve our display of local material in our cases at the Ski Museum. It was supported and carried.

A motion was made to change the By-laws to read, "Our club will meet the last Sunday of each month, October through April and Field trips May through September." The Board of Directors will meet one week after each regular meeting.

There being no further business, the meeting was adjourned. Rock talk continued until 10 o'clock that evening.

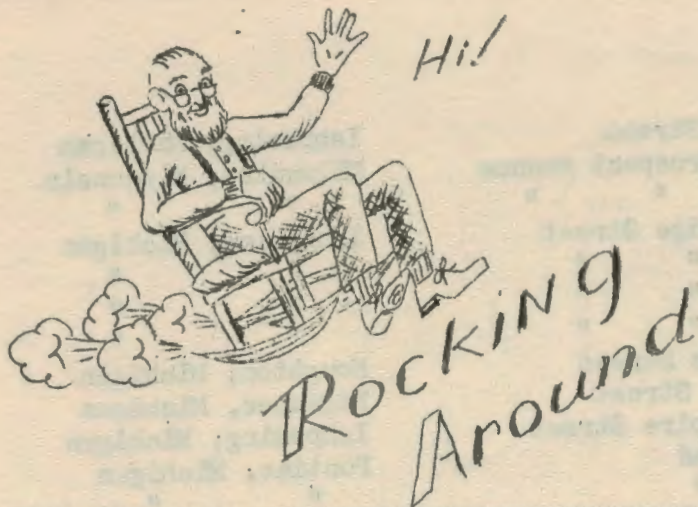
ISHPEMING ROCK AND MINERAL CLUB MEMBERS

Ackemann, Andrew	816 Forest Avenue	Elgin, Illinois
Allen, A. T.	740-Case Avenue	Iron Mountain, Michigan
Anderson, Gregg	500 $\frac{1}{2}$ Jackson Street	Negaunee, Michigan
Ball, Wayne	Mt. Shasta	Michigamme, Michigan
Balz, Fred	Box 434, Route 1	Menominee, Michigan
Balz, Mrs. Fred	" " " "	" " "
Bamford, George R.	437 W. Empire Street	Ishpeming, Michigan
Bamford, Mrs. George	" " " "	" " "
Benzie, Fred	1837 Hewitt Street	" " "
Brou, Arthur	RFD 1	Pinconning, Michigan
Bye Judy	318 N. Sixth Street	Ishpeming, Michigan
Calhoun, Mrs. Frances	313 High Street	Marquette, Michigan
Carlyon, Edward W.	110 Peck Street	Negaunee, Michigan
Carlyon, Mrs. Edward	" " "	" " "
Carlyon, Koith	" " "	" " "
Chapman, John	317 Tobin Street	" " "
Collick, Joe	307 Jasper Street	Ishpeming, Michigan
Cooper, Howard L.	1916 Bundt Drive	Muskogon, Michigan
Crawford, Jim	663 Elliot Avenue	Ishpeming, Michigan
Davis, Anita	P. O. Box 21	Silverton, Idaho
Davis, Robert	" " " "	" " "
Dooley, Bernard	218 Adams Street	Iron River, Michigan
Dooley, Erin	" " "	" " "
Dooley, Michael	" " "	" " "
Dunn, Mrs. Carl	9101 S. Damon Street	Chicago, Illinois
Eakins, Duane	182 Hickman Street	Clarksburg, West Virginia
Eakins, Maxine	" " "	" " "
Engstrom, Albert	2116 Jackson Street	Ishpeming, Michigan
Engstrom, Barbara	" " "	" " "
Engstrom, Ricky	" " "	" " "
Enstrom, Doris	Star Route	Crystal Falls, Michigan
Enstrom, Harols	" " "	" " "
Fitts, Roy M.	29 E. Elm Street	Yarmouth, Maine
Grain, Dr. G. O.	P. O. Box 35	Marquette, Michigan
Gries, Walter R.	220 E. Main Street	Negaunee, Michigan
Hancy, Miss Gladys	511 N. Sixth Street	Ishpeming, Michigan
Hawes, Mrs. Hetty	709 N. Main Street	" " "
Hutander, Onne	551 Lake Street	Negaunee, Michigan
Jarvi, Elmer	116 E. Division Street	Ishpeming, Michigan
Jarvi, Evelyn	" " " "	" " "
Jarvi, Mamie	" " " "	" " "
Jarvi, Ruth	" " " "	" " "
Jenkins, Audobon	Deer Lake Location	Ishpeming, Michigan
Jenkins, Mildred	(Box 7, Route 1)	" " "
Kivela, Anne	P. O. Box 228	Negaunee, Michigan
Kivela, Glenn	" " " "	" " "
Kivela, Jarl	" " " "	" " "
Kokko, Carol	P. O. Box 324	" " "
Kokko, Taine	" " " "	" " "
Krebs, Charles	P. O. Box 432	Saginaw, Michigan
Krebs, Irene	" " " "	" " "
Lampe, Mrs. Miriam	1175 Glen Oak	Dubuque, Iowa
Larsen, Don	1613 Fourteenth Avenue	Menominee, Michigan
Larsen, Lewis	" " " "	" " "
Lemin, Carl	624 E. Division Street	Ishpeming, Michigan
Lemin, Judy	" " " "	" " "

Locher, William	232 Iron Street	Ishpeming, Michigan
MacBriar, Mrs. Susan	2902 N. Prospect Avenue	Milwaukee, Wisconsin
MacBriar, Tom	" " " "	" "
Markert, C. R. (Bob)	107 W. Ridge Street	Ishpeming, Michigan
Markert, Dudley	" " " "	" "
Markert, Marian	" " " "	" "
Markert, Scott	" " " "	" "
Markham, Charles	W. Edwards Street	Houghton, Michigan
Meni, James	510 Bluff Street	Negaunee, Michigan
Merrila, Swante	436 W. Empire Street	Ishpeming, Michigan
Mortenson, Floyd	69 West End	Pontiac, Michigan
Mortenson, Helen	" " " "	" "
Newman, Dan	739 Duncan	Ishpeming, Michigan
Ostlund, Barbara	409 S. Fourth Street	" "
Palmeri, Richard	832 North Fifth Street	Iron River, Michigan
Pape, Robert	7732 Auburn Street	Utica, Michigan
Powell, Jack	336 Gold Street	Negaunee, Michigan
Richards, Bernard	Deertrack Village	Marquette, Michigan
Richards, Robert K.	205 E. Case Street	Negaunee, Michigan
Roberts, Mrs. A.B.	Deertrack Village	Marquette, Michigan
Roberts, Arthur	503 Snow Street	Negaunee, Michigan
Rogers, Elizabeth	401 Vine Street	Ishpeming, Michigan
Rosemeyer, Tom	1405--22nd Street	Menominee, Michigan
Schenk, Don	Republic	Republic, Michigan
Schenk, Marv	"	" "
Schenk, Robert	"	" "
Sheehan, Ralph	119 Washtenaw Street	Lansing, Michigan
Sprague, Doris	11307 Swan Creek Road	Saginaw, Michigan
Sprague, Harry	" " " "	" "
Steele, Clyde	114 Palms Street	Marquette, Michigan
Tapola, Charles	--	Princeton, Michigan
Thomas, James	316 E. Main Street	Negaunee, Michigan
Trebilcock, Lenwood	109 E. Division Street	Ishpeming, Michigan
Trebilcock, Lyle	" " " "	" "
Trebilcock, Mrs. Wm.	627 North Third Street	" "
Urich, Stephen	426 W. Empire Street	" "
Vanlandegend, Allys	441 W. Magnetic Street	Marquette, Michigan
Vanlandegend, Irene	" " " "	" "
Vanlandegend, Jim	" " " "	" "
Vanlandegend, James Jr.	" " " "	" "
White, L. E. (Jim)	915 North Fourth Street	" "
White, Fern	" " " "	" "

JASPILITE DIRECTORY: IF YOUR NAME DOES NOT APPEAR IN THIS DIRECTORY, it may be an oversight on our part, so please let us know. We will make corrections from time to time in the Jaspilite.

This directory is made up of all 1958 and 1959 members, with all persons in arrears for 1957 dropped from the list. A separate notice is being placed in your Jaspilite if we don't have your dues for 1959. We need the support of all of our members as we have a big show coming up for 1960, that will take a lot of advance work in 1959.



Mexico to its new locality in DonSteeleo's basement in Marquette.

Member, Mrs. R. K. Lampe, of Dubuque, Iowa, was made President of the newly formed Tri State Gem and Mineral Society of that city, and Mr. Lampe was made corresponding secretary. Congratulations, folks!—hope you have as much fun as we've had working with a club.



64 thousand dollars

Adult Lapidary classes are now in session in the basement of Bob & Nin Markert's home. Question is, where is the teacher with so much talent around? —Come to think of it—where are the students?

Word has been received from Earl (Curly) Brunett, a past member of this club, that his daughter, Miss Jill Brunett, Comstock Park High School Jr., holder of the Michigan Woman Champion title and National Position Woman Champion, has recently won another tournament at Stevensville. Shooting against the best from three states, Jill took first place in the grand aggregate and in the scope aggregate. Good girl, Jill; we are so proud to know you personally. We'll watch the newspapers from now on.

Floyd Mortenson has been very busy lately giving talks to the many rock clubs in Lower Michigan. He informs us that many people have their sights on Ishpeming for 1960. Floyd expects to be able to assist us at that time and we shall welcome that help, Floyd. It is only too bad that you live so far away.

READ: "WARNING: ROCKHOUND CONVENTION" in the March 1959 "FORD TIMES". This little magazine may be picked up free at your Ford Dealers.

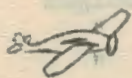


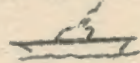
more yet!

At this time of year and with so many things being planned for the club, I cannot think of a more appropriate bit of poetry than this one that appeared in THE WOLVERINE AUXILIARE:

DUE DROPS

Some pay their dues when due;
Some do before they're due;
Some never do.
How do you do when your dues are due?





Harriet and Carl Dunn are on a trip around the world and we hope that they take some time to hunt for some gems and minerals. Their itinerary is as follows: Honolulu, Fiji, New Zealand, Australia, Singapore, Colombo, Madras, Calcutta. From here they plan on going to Benares, Delhi, Karachi, Beirut, Rome, Nice, Barcelona, Madrid, Lisbon, etc. Probably either Harriet or Carl will write an article for our club paper. How about it folks?

Member Harry Sprague of Saginaw was recently elected President of the Tri-County Rocks and Minerals Society. Congratulations, Harry! Just keep up the good work; but why did you have to drag us into it? Harry put Bud, Nin, and myself on their U.P. Field Trip Committee.

Clyde Steel, alias DonSteeleo is touring the Southwest, visiting friends and rockhounds, trying to move the bulk of Arizona and New

S O R R Y . . . We goofed.

The article "TOMBSTONE SILVER" was written by ABBY BEECHER ROBERTS and is our face red! We failed to give proper credit for that wonderful and exciting article. Abby, I hope that you will forgive us for this error, and that you will continue to furnish us with those exhilarating accounts of your rockhounding experiences.

REMEMBER: To reserve a case for use in the SPRING GEM AND MINERAL show to be held in the National Ski Museum in June, 1959. Call Elmer Jarvi, HU6-4692, no later than April 1, 1959.

Would you like to wear the emblem of the Ishpeming Rock & Mineral Club on your arm during the spring show, while on field trips, or at convention time? If you would, let your President know so that you will get in on the original order for these patches. To date, 26 orders have been placed. It was suggested that these be placed on an elastic guard which could be used on your arm regardless of what clothing you are wearing.

MEETING * * * * * APRIL 5, 1959!
Since the last Sunday in April will be Easter, it has been decided to hold the March meeting

The Ishpeming Rock & Mineral Club will sponsor its first Gem & Mineral Show in an effort to raise money for use in conjunction with the 1960 Field Trip Convention. This show will be held in the National Ski Museum. So far, promises have been made to have lapidary and other demonstrations in progress during show time. If you haven't made any commitments, please do so at an early date. Your ideas are welcomed also.

Uniform cases are being planned and early reservations by club members will be appreciated. Cases will be 32"x48" and 8" in depth at the bottom with 4" at the top. You can either rent these cases or buy them at a real bargain.

one week later, on April 5, at the home of Champ Lomin, 624 E. Division Street, Ishpeming. This is a wonderful opportunity to see the excellent collections of Champ and Judy Lomin. We guarantee you that this will be an afternoon well-spent. The April meeting will be held on the last Sunday of April, which will give us two in that month.

ALL MEMBERS ARE URGED TO BRING SPECIMENS FROM THE STATE OF ARIZONA TO THE MEETING OF APRIL 5. It will be fun to see what type of a display that we can collectively put together for this meeting.

From "SUNDAY PIX":

Teacher: How was iron discovered?
Student: Dad says they smelt it.

