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THE



J A S P I L I T E

OFFICIAL PUBLICATION
of the
ISHPEMING ROCK AND MINERAL CLUB

PUBLISHED QUARTERLY

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THE ISHPERING ROCK & MINERAL CLUB wishes our friends throughout the country-----A VERY HAPPY AND JOYOUS EASTER.

We are hoping that this issue of the "JASPILITE" will bring to you many informative and interesting articles. To our own club members we hope you find the listings of field trips for 1957 to your liking.

Enclosed within the covers of this Jaspilite, you will find Research Bulletin #7 which we hope that readers will find interesting. It has been provided through the courtesy of the JONES & LAUGHLIN STEEL CORP..

Marquette County is now the site of three pelletizing plants which are located at Republic, Humboldt, and Eagle Mills. These three plants have greatly enhanced the future economy of the Upper Peninsula of Mich. We are proud to present this material for your reading pleasure. We have a limited supply of the Research bulletins which may be had by writing any of the officers of this club or the Editor and enclosing a self-addressed, stamped long envelope.

Again may we wish you A VERY JOYOUS EASTER TIME.

R.K.R.

HAPPY EASTER



BENEFICIATION OF TACONITE

The J&L Ore Research Division has been concentrating its efforts for the past few years on the development of a flowscheme by which Corporation-owned low-grade deposits in the Negaunee Iron Formation might be upgraded. The process described in this bulletin is now being verified in the operation of a small scale, experimental, continuous processing plant, and the results to date offer strong encouragement that an economical, practical solution for the utilization of some very large J&L ore deposits has been found.

HIGH GRADE iron ore deposits in the United States, containing upward of 50% iron, are being consumed at the rate of 90 million tons a year. The steel industry is turning to extensive taconite deposits in Minnesota, Michigan and New York as new sources of blast furnace feed. Upgrading these ores, containing approximately 30% iron, will make available an ample domestic supply for many years to come.

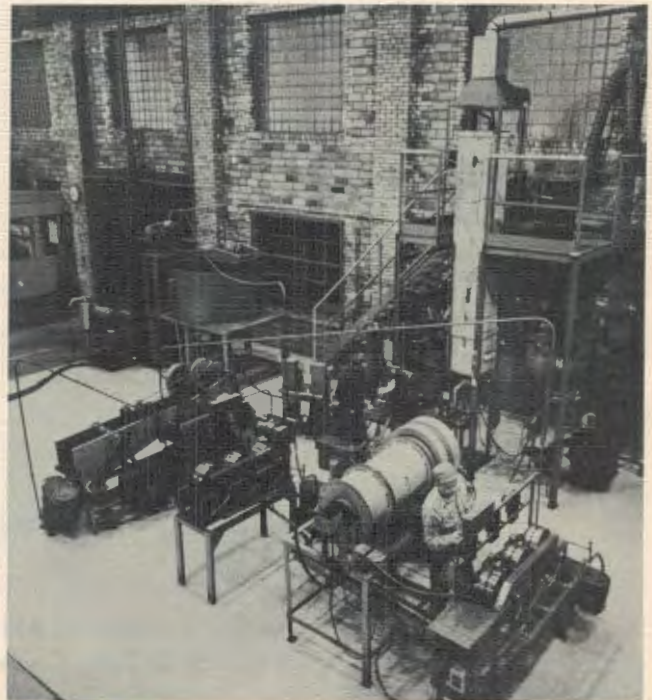
Two types of this fine-grained ore commonly occur: magnetic and non-magnetic. The less abundant magnetic variety is mined and upgraded in limited quantities at the present time. It is with non-magnetic taconite that this article is concerned.

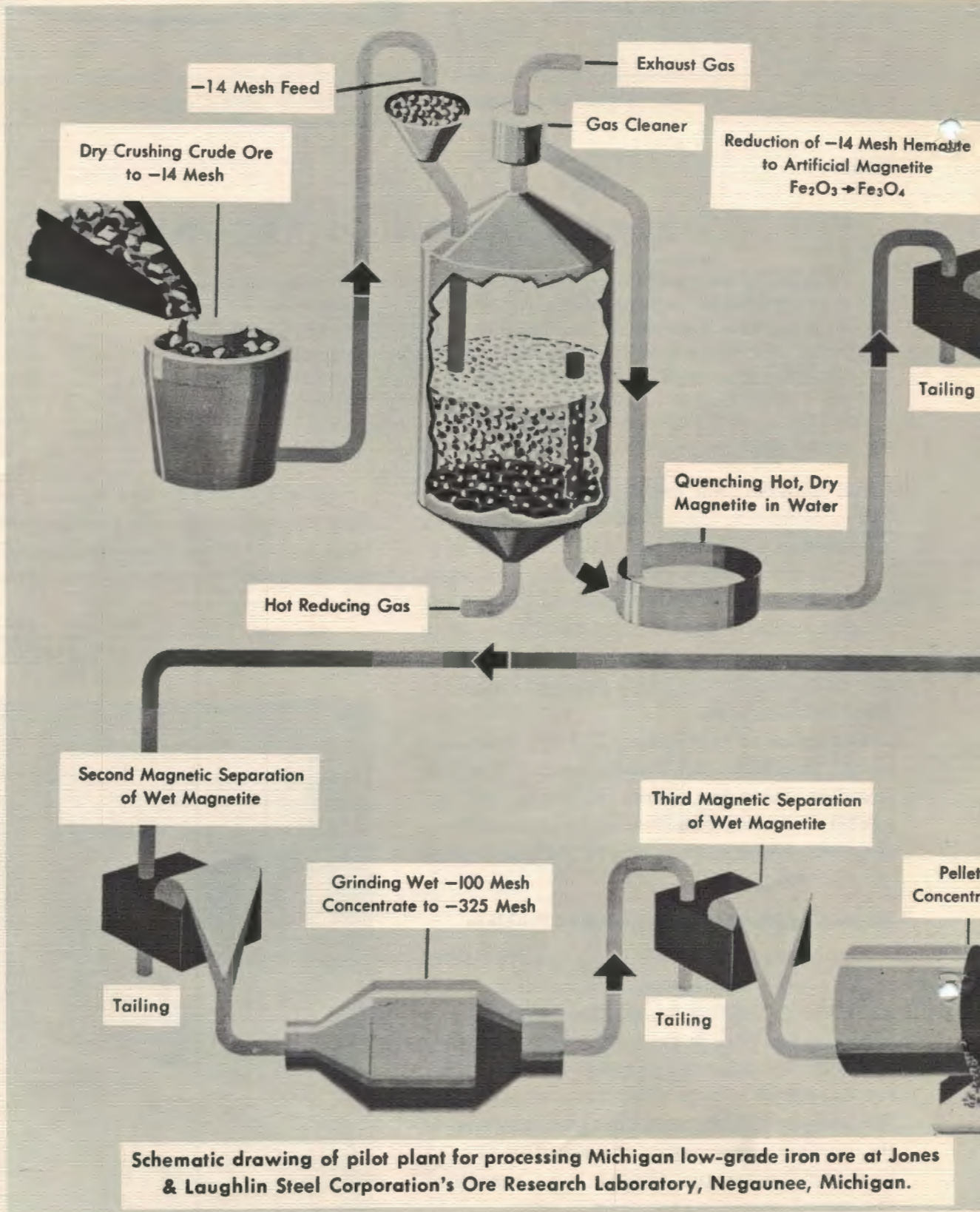
Upgrading Hematite—A Complex Problem

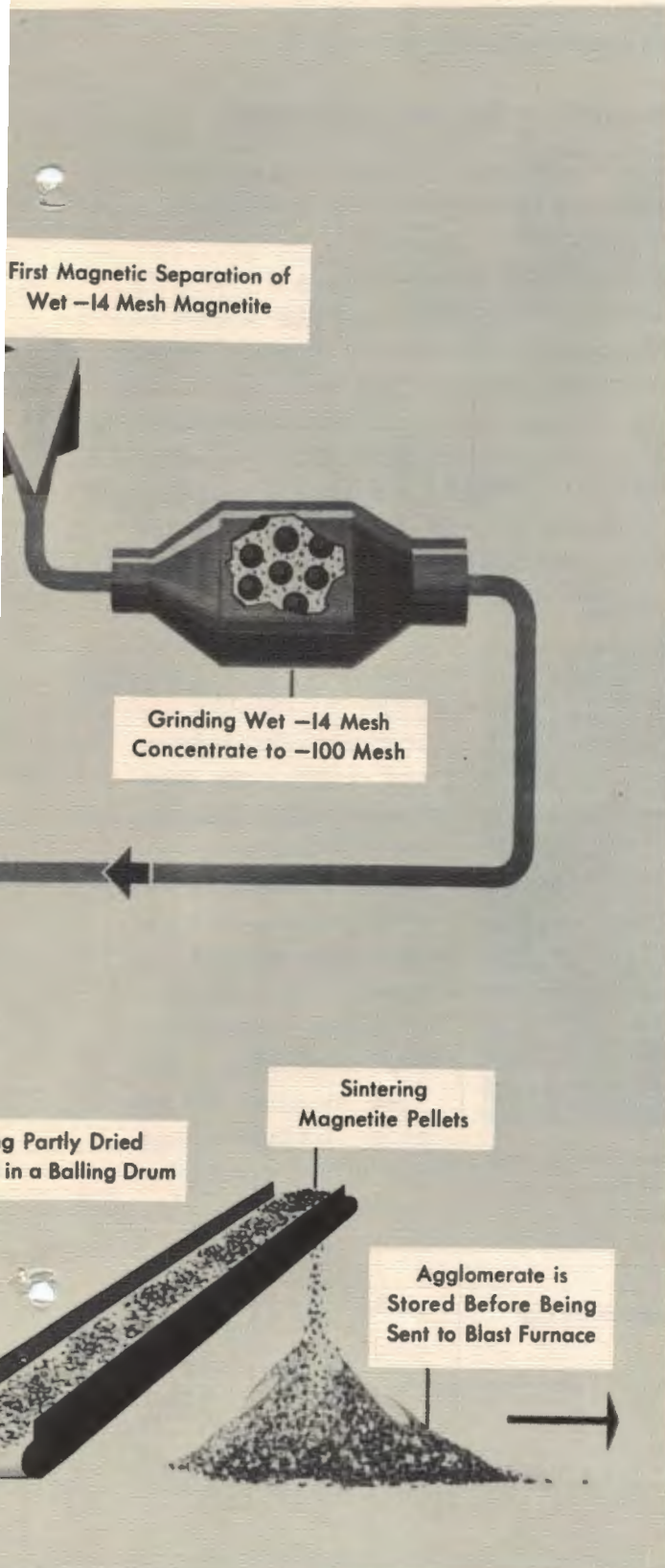
Non-magnetic taconite is a hard quartz-bearing rock in which the iron oxide is distributed as a fine-grained hematite. Upgrading these ores is more complex than in the case of magnetic taconite since the magnetic properties of the latter can be utilized in separating the magnetite from the unwanted waste material. One approach to the problem is converting the hematite (Fe_2O_3) to artificial magnetite (Fe_3O_4), thus permitting the use of magnetic separators.

Intensive laboratory research resulted in a flow-sheet for upgrading a large deposit of non-magnetic taconite in Michigan by means of the reduction-magnetic separation process. The process is

A view of the laboratory pilot plant where non-magnetic taconite is treated at the rate of 75 pounds per hour.







now being tested in a new continuous pilot plant designed to upgrade the ore to a usable concentrate containing as much as 63% iron.

As a first step, the crude ore is crushed to minus 14-mesh size to permit economical operation of the reduction process. In place of the involved wet grinding operations usually required to reduce crude ore to this size, a unique crushing and grinding machine has been tested at the pilot plant. In a one-step operation, this unit, which is in commercial use at present, delivers a dry product suitable for the succeeding reduction step.

Reduction of the Ore

Reduction of the hematite to artificial magnetite is the heart of the entire flowsheet.

Commercial adaptation of the reduction process has been hindered due to the lack of a furnace in which reduction could be carried out satisfactorily. One solution to the problem is provided by a new type of fluidized solids reactor, commercially used for roasting non-ferrous sulfide ores. A small scale model of the reactor, operating on the same principle found to be effective in the catalytic cracking of petroleum, is being utilized at the laboratory pilot plant. In this furnace, a bed of taconite ore is suspended in a turbulent stream of hot reducing gas. Accurate temperature control and intimate gas-to-iron mineral contact are achieved. Both of these factors are critical in preventing under-reduction in one part of the ore mass and over-reduction in other parts. Efficient reduction of hematite to artificial magnetite is thus attained at a high production rate.

As the hot artificial magnetite passes from the roasting furnace, it is quenched in water. This shock-cooling produces stresses in the ore particles since the iron oxide and silica contract at different rates. The heating and quenching steps facilitate liberation of the iron mineral from the silica during the ensuing grinding and magnetic separation cycles.

Magnetic Concentration—A Three Stage Process

After quenching, the minus 14-mesh reduced ore enters a wet magnetic separator, where about 20% of the material is discarded as tailings. The concentrate is ground to minus 100-mesh and subjected to a second magnetic treatment. Here, another 20% is rejected as tailings. The minus 100-mesh concentrate is then flowed to another grinding and separator circuit where it is reduced to minus 325-mesh and again treated magnetically. At this third stage, approximately 10% of the original crude is discarded as waste.

In the latter two grinding operations, a particle classifier is teamed with each of the two ball mills to assure a properly sized feed to the magnetic separators. The classifiers return oversize particles to the ball mills for further grinding.

The high-grade concentrate contains as much as 63% iron with only 10-12% silica as compared to 37% iron and 50% silica in the original ore. Slightly more than two tons of taconite are needed to produce one ton of concentrate.

Excess water is removed from the concentrate in thickening tanks

and by a drum vacuum filter.

Agglomeration of the Fine Concentrate

This concentrate is much too fine for blast furnace feed. It is also too fine to be sintered by ordinary methods.

A novel agglomerating process, a combination of pelletizing and sintering, is being applied to these Michigan concentrates. In a rotary drum the concentrate is formed into balls which are bedded on the grate of a conventional sintering machine. The product is sintered or heat-hardened into grape-like clusters. Accurate temperature control is readily achieved during the process and the need of drying or preheating machinery is eliminated.

The flexibility of the laboratory pilot plant offers an excellent opportunity for refining and studying the flow-sheet in detail. The next step will be a large scale pilot plant where appreciable tonnages of Michigan iron ore can be treated. Successful completion of this research project through full-scale operation will assure a continuous supply of high-grade blast furnace feed.



Low-grade ore for these research investigations was obtained from surface trenches as shown and from drill core samples.

INFORMAL TREASURE HUNTING

Well, this is how it could be.

You like rocks, you know the names of a few local specimens, but you really don't know anything for scientific sure. You pick them up; put them on your shelves and admire them, mostly as reminders of past picnics. But not as characteristic or as uncharacteristic specimens of their geologic genera.

That's being a "rockhound".

Then those who have your interests at heart tell you to go south for the winter. You whistle up a friend who is a good mechanic, a fine driver, an earnest rockhound who doesn't know more than you do, and who never will argue with you, and you head out for Arizona.

Along the way, you find rock shops. Friendly, interested and cooperative. You can buy specimens right there, or get information as to where to do your own scrounging. "Those agates? I get 'em from the villagers near Durango in Mexico. Go there twice a year. Pick 'em up myself? Not me! There's two rattlesnakes for every agate down there. Jose talks the snakes out of the rocks, but me, I don't savvy snake language."

The rock-shop folks will give you crude "Treasure maps" and tell you where the best pickings are,-- you find you are only the ten-thousandth asker. So you begin at the next dry wash. And you find white, rose and blue chalcedony and hope some of the pebbles will turn out to be the beautiful fire agate after polishing. Then a bit of "blue lace agate comes up. Some rose quartz in a rock cut, "Apache tears" and other forms of obsidian near an old lava flow. Cinnabar, jasper, nephrite jade,

amethyst, fantastic geodes, not very much at a time but enough to keep you alert at every dry wash. And you can't bear to skip a single one. The desert hills are all broken out with a rash of small "Gopher mining" dumps. "What did a man see that made him want to dig there?" You hate to pass up anything, there might be a real treasure there that no one else has noticed.

Then you see the car fenders are dragging on the tires. Too much weight in back. You stop at the next hardware store and buy a couple good stout garbage pails with tight covers that can be wired to the handles. They take all the rocks packed with newspaper silencers, and go home by freight. Then you begin again, petrified wood, petrified shells, occasional turquoise, malachite, chrysocolla. More garbage pails. A new load,--opal, blue barite, dinosaur gizzard stones, agatized wood, leaf fossils, arrow heads--

When you get home you remember and love every rock. You slab some, tumble others, cut the suspected geodes, but most of the rocks lie in heaps. When your fellow rockhounds come, you dig one up and say,--"Now let me tell you about this one--" and then another-- and another-- they will listen for hours if there are refreshments on the side, and your treasure hunt goes on and on right at home.

-Abby Beecher Roberts



4-H JASPILITES



Well, the 4-H Mineral Club is organized and running smoothly with 11 boys and girls, 1 leader and 2 advisors. The application for membership had to be closed until such time as more leaders can be obtained. We think this is the first of it's kind to be organized in the U.S. As their name they chose, "4-H JASPILITES!" This name was submitted by Dudley Markert.

They have visited the collections of Bob Markert, Bud Bamford, Champ Lemin and Joe Collick where each one received specimens to add to there collections.

They are also "hardy little souls" in as much as they went on a field trip to the Beacon Mine in the dead of winter, but were well rewarded with specimens of tourmaline, siderite, magnetite, micaeous iron ore, sericite and garnets.

In their first test in identification, 25 minerals were placed on the table and Judy Braund came out on top by naming 17 $\frac{1}{2}$ correctly, Dudley Markert had 17 and Ruth Jarvi 16. Their interest and knowledge is really amazing. They have only been organized about 1 month. Mrs. Elmer Jarvi is their leader and Bob and Marian Markert are advisors.

Heard at a 4H meeting

Mr. Markert: "How old is that little boy who wants to join?"

4H'r: "Well, Mr. Markert, he is not very big, but he'll make up for it in brains,"

The mailing list for the June Jaspilite will be taken from the PAID-UP membership list.

GE MAKES MATERIAL HARDER THAN DIAMONDS

Reprint Detroit Free Press
Feb. 13, 1957

The hardest substance ever made by man--an entirely new material--has been made by tremendous pressure and heat, General Electric scientists, announced recently.

It is a crystal hard enough to scratch a diamond and able to stand twice as much heat. Named "BORAZON", it is expected to have "far-reaching impact in industrial polishing and cutting operations.

Dr. Robert H. Wentorf; a 30-year-old physical chemist from West Bend, Wis. is credited with the discovery.

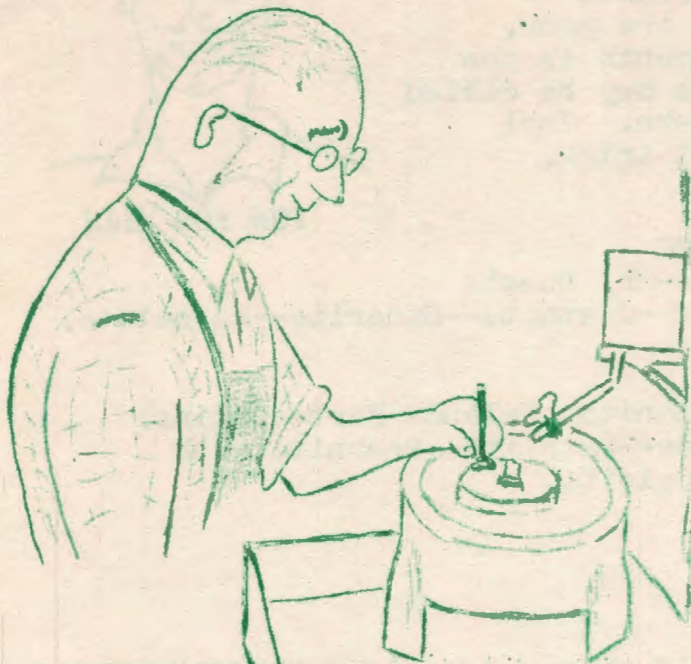
A member of GE research team which produced tiny man-made diamonds two years ago, Wentorf used a similar method to produce borazon crystals the size of grains of sand.

"What we are announcing today is not a product, it is a major scientific achievement--the creation of a new material never observed in nature, with properties equalling or surpassing those of a material long thought to be the "ultimate", said Dr. C.G. Suits, GE vice president and director of research.

WENTORF said he started with boron nitride, commonly called "white graphite" and very similar in appearance and feel of talcum powder.

Using pressure above one million pounds to the square inch and temperatures over 3,000 degrees Fahrenheit, he changed the crystal structure from hexagonal, like graphite, to cubic like diamond.

Such a cubic crystal of boron nitride is unknown in nature and is strikingly similar to that of a diamond.



LAPIDARY NOTES

When wet sanding, do not use too much water. The paper will cut best with less water.

Never grind opal, thompsonite etc. on coarse grade wheel. Course grit or untrue wheel will crack stone faster.

After polishing an Agate, polish it again with Linde A.

Did you ever try old Phonograph records in place of tin lap for polishing? Sure sounds like a good idea.

V.L. Burton of the Evansville Lap. Soc. also recommends Chrome Oxide for a better job on all stones with a hardness of 8 or less.

Daroll Albright writes in the AGATIZER about a new way to use a potato in our hobby. If you want to enlarge or repair a ring shank and it is not practical to remove the setting--first cut one end of the potato so it will stand---2nd cut the potato at the top and insert the stone in the slot, leaving only the area to be soldered exposed. The potato will absorb the heat and protect the stone.

From "ROCKHOUND NEWS AND VIEWS" via the "AGATIZER". When using Chrome Oxide for polishing Jade, mix it with half and half water and vinegar. The vinegar will help the polish grab the buff.

After polishing agate with chrome oxide, the green residue left on the stone can be removed by soaking the agate in muriatic acid for a short period. The acid will attack chromium and also attack the chrome oxide and break it down so it can be brushed off. The agate will not hurt the agate or jade.

Also from the "AGATIZER" comes this good idea.

If you have trouble losing your rock-hammer in the field, keep the blade polished or paint the handle a bright color so they can be seen readily. It also helps to identify your tools from others.

ARE
YOUR

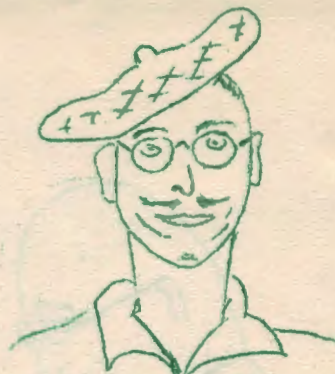
DUES

PAID?



" THIS IS IT! "

Field-trip chairman BERNARD DOOLEY announces plans for the 1957 collecting season. Considerable thought has been given to the trips for the year. One long and one short field trip each month is the goal set for the club. Additional trips may be called with card notices sent to all club members. Jarl Kivela will supervise some of the listed trips.



FUN FOR ALL!

KEEP THESE DATES OPEN!

MAY 11th-----CHAMPION and MICHIGAMME
Beacon Mine---North Champion Pits---Mr. Shasta
Tourmaline--Garnets--Grunerite--Goethite--Siderite--Magnetite.

MAY 18 & 19-----KEWEENAW PENINSULA
Delaware Mine--Copper Falls Mine--Manitou Island--Fort Wilkins.
Agates--Isle Royale Greenstones--Datolite--Prehnite with
copper--Analcite--Natrolite--Calcite.

JUNE 16th-----Lake Michigamme
Millerite--Andalusite--Staurolite.

JUNE 26-27-28-29--MADISON, WIS.
Midwest Convention---three day field trip arranged by the Univer-
sity of Wisconsin and Madison Club. Possible side trip to
Oshkosh, Wis.

JULY 6&7-----COPPER COUNTRY
South Range Quarry--Isle Royale Mine--Franklin Mine--Centennial
Mine--Mohawk Mine--Ahmeek Mine--Iroquois Mine.
Sausserite--Vein Thompsonite--Quartz Crystals--Mine Agate--
Epidote Crystals--Gödfreite--Datolite--Copper--Mohawkite--
Ankerite--Siderite--Prehnite--Domeykite--Silver--Chalcocite.

get in on
July 15.

Club Scouts

JULY 27-----RANDVILLE-FELCH area
Newkirk Quarry--Beryl area--Felch Mt.--Metro-nite Quarry--
Feldspar--Mica--Beryl--Dolomite--Tremolite--Actinolite--
Serpentine--Aplite.

AUGUST 18th-----ALBERTA--THREE LAKES
Pyrolusite--Graphite--Horneblende.

AUGUST 31-Sept. 2---Hold this date open. IMPORTANT MINN. FIELD TRIP
TO BE ANNOUNCED LATER.

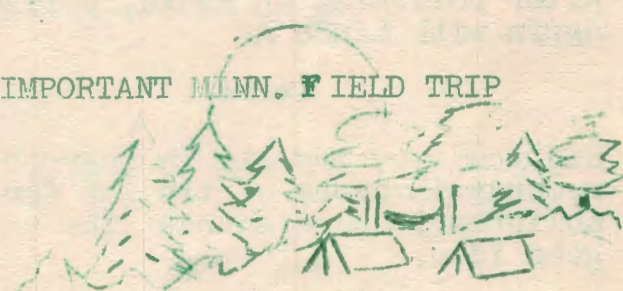
Sept 7-8

SEPT. 14th-----GOOSE LAKE area
Quartz Crystals

SEPT. 21 & 22----IRONWOOD--ONTONAGON
Goethite--Needle ore--Barite--Calcite--Copper--Chrysocolla--Cuprite
Tenorite--Datolite.

OCT. 12 & 13th---NEWBERRY---TWO*HEARTED RIVER
Agates

OCT. 27th-----MIDDLE INLET, WIS.
Molybdenite.



Four other trips scheduled for this summer with dates to be announced later will be:

- FENCE RIVER and ISINGLASS mine for garnets, staruolites, feldspar and Mica.
- IRON ROVER area for Pre-Cambrian coal and hematite crystals.
- ISHPEMING area for Goethite, limonite pseudomorphs, martite, jaspilite--micaceous hematite, cherty siderite and amethyst.
- HOLYOKE ADIT--for galena and associated minerals.

FOR YOUR READING ENJOYMENT: ye staff of editors suggest that you obtain these articles from Librarian Rogers and browse through some very educational information.



- "PUTTING THE EYE IN TIGEREYE"--
- "FACTS ABOUT CRYSTALS"-----TRILOBITE, Jan. '57
- "DO YOU KNOW?"-----Jan. '57
- "ASTRONOMY"-----March '57-----EARTH SCIENCE NEWS
- "LITTLE OPALS FROM BIG OPALS"-----CHIP AND LICK-----March '57
- "CUTTING FEATURES OF CABACHON GEMS"--ACHATES-----Jan. '57
- "ON THE TRACK OF MOSS AGATES"
- "HUNTING AGATES ALONG THE SHORES OF LAKE SUPERIOR"----PICK & DOP STICK----Jan. '57
- "PROSPECTING IN THE ARTIC"-----THE CONGLOMERATE"-----Feb. & Mar. '57

The above listings are but a few of the educational features offered by other bulletins, so we would suggest, if you would like to keep abreast of activities in other clubs, contact your libration and obtain these copies.



1957
 DUES
 are payable to
 "BUD" BAMFORD"
 NOW

 * Many new and interesting *
 * people have been attending *
 * our meetings. Hope to see *
 * them at all our meetings *
 * and field trips. *
 * *

DRIVE SAFELY! The life that you save may be your own!



JASPER

Hardness 7 Specific Gravity 2.65.

The physical properties of Jasper are the same as for Quartz. Where'as Quartz is transparent in its pure form the hematite inclusions in Quartz give its color (red) so our description of Jasper is a granular cryptocrystalline quartz, usually colored red from Hematite inclusions.

The western varieties of Jasper are found in a multitude of colors from brown to red to white. We in the Upper Peninsula and especially in Marquette County have Jasper like a farmer has hay. Any and all mine dumps contain for the most part Jasper. Some of it when cut and polished make nice jewelry. Jaspilite from which this bulletin takes it's name is made up of alternate layers of Hematite and Jasper and makes a showy specimen in anyone's collection.

-Tallus Cannine from
Witch Lake

PEBBLES IN TURKEY GIZZARD FOUND TO BE GOLD NUGGETS

Mrs. Ken Sara is looking for the farm where Christmas turkeys are fattened on gold....She was preparing a turkey for Christmas dinner when she discovered four small pebbles in the gizzard. Now she has been told they are gold nuggets Nobody knows where the turkey came from. Mrs. Sara bought the bird from a large department store which orders turkeys from all over South Africa.

Feb. Rock Lore



The scene is the chemistry class. The dullest student is being quizzed.

"What is the formula for water?"

"H-I-J-K-L-M-N-O."

"Who ever told you that?" roared the exasperated teacher.

"You did sir." You told me it was H to O."

As told by Joseph Bell, Gerald, Mo. in Boys Life Magazine.

ISHPEMING'S PEAT BEDS

Although few people realize it, peat once showed signs of vying with iron ore for Ishpeming's industrial honors.

Great excitement was created in Ishpeming around 1870 to 1873 with the discovery of large peat beds in the vicinity. It was thought that these could be dug up, the peat being used for fuel in blast furnaces throughout the country.

In fact, companies were organized to dig peat and experiment with it since it was much cheaper to use than coal or wood and because it had been used in Europe in the manufacture of iron.

The excitement over peat, however, soon died out, possibly because the panic of 1873 closed operations at the blast furnaces. At any rate, no one thought of exploiting the possibilities of peat after 1873.

Reprint Marquette Mining Journal



GEM-O-RAMA

Grab whatever transportation you have available and head for sunny California and the GEM-O-RAMA show to be held in Los Angeles, Cal. July 5-6-7, 1957. This show is sponsored by the Compton Gem and Mineral Club and the California Federation of Mineralogical Societies, Inc.



This group is really planning an interesting show. One which would be truly wonderful to view. We like the name too. If only Calif. wasn't so far away. Anyone planning on attending check with the editor, as some information has been sent our way and this is yours for the asking.

Most accidents are caused because the driver was hugging the wrong curve.

Watch for notice cards with plans and date of next Mineral Club meeting. Plans are in the making for a long-awaited AUCTION. So save your pennies and maybe you will be one of the lucky ones to take home a beautiful specimen to add to your collection.

BABY OIL FOR FLIES:

This sounds wonderful for people who can't stand the smell of insect repellents, or who are allergic to it. Ordinary baby oil is as good as any and um-m-m-m-m-----smell nice hey? I've tried it and it really works too.



Information about the 1957 NATIONAL GEM & MINERAL SHOW, joint convention of ROCKY MOUNTAIN FEDERATION OF MINERALOGICAL SOCIETIES AND AMERICAN FEDERATION OF MINERALOGICAL SOCIETIES, which will be hosted by the COLORADO MINERAL SOCIETY is now in the hands of the Editor. Anyone desiring this information may obtain same by calling HU6-6643. Dates---June 13-14-15-16.

WELCOME TO OUR NEW MEMBERS

Mr. & Mrs. Jim White, Marquette
Scott Holman, Ishpeming
Elmer Jarvi, Ishpeming
Paul Villeneuve, Ishpeming
Ricky Engstrom, Ishpeming
Bernie Richards, Marquette
Alderic Villeneuve, Ishpeming
Mrs. Abby Roberts, Marquette
A.T. Allen, Kingsford
Mrs. "BUD" Bamford, Ishpeming
Fred Balz, Menominee
Mrs. Fred Balz, Menominee
Mickey Dooley, Iron River

Rev. Eskil Roström, Ishpeming

Joseph Collick, Ishpeming

BULLETIN EXCHANGE NEWS

THE ROCK COLLECTOR

I think that there shall never be
 An ignoramus just like me,
 Who roams the hills throughout the
 day
 To pick up rocks that do not pay.
 For there is one thing I've been
 told;
 I take the rocks and leave the gold!
 O'er deserts wild and mountains
 blue
 I search for rocks of varied hue;
 A hundred pounds or more I pack
 With blistered feet and aching
 back,
 And after this is said and done
 I cannot name a single one'.
 I pick up rocks where e're I go
 The reason why I do not know,
 For rocks are found by fools like
 me
 Where God intended them to be.

ICE AGE

Recently the new technique of
 estimating the age of materials
 that were once living was applied
 to the remains of a campfire
 found 22 years ago on the Nevada
 desert. The tests suggest that
 the campfire was "more than 23,800
 years old".

Condensed from New York
 Times via Earth Science News
 Jan. 57

From Chip and Lick for Jan. '57
 Gemy heard that Fluorescent light-
 ing is no good for displays.
 Rather a clear incandescent bulb
 makes the better lighting to show
 your creations.

A fool and his money are soon
 parted, we used to say; now it
 happens to everybody!



20 TON JADE NUGGET FOUND IN
ALASKAN AREA

A giant jade nugget weighing 20
 tons is stored in Kotzebue, Alaska
 awaiting a buyer. The huge stone
 16 feet high and 5 feet thru, was
 recently hauled from Jade Mountain
 200 miles away, in 5 days. It
 was mined by the Imperial Jade Co.
 which will not sell it for stone
 settings. (It would make some
 4 million of them). Gene Joiner
 of the company says it will be
 only sold intact to someone to use
 as a statue or monument..

James K. Davis in
 Pick & Dop Stick
 Feb. '57

MY FAVORITE ROCKHOUND RECIPE
by E.V.ROPER

A little work, a little study
 A little time, a little money
 A dash of imagination.
 Mix well with fellowship and fun
 Then bake until brown in a desert
 sun.
 Cool on the ridge of a mountain-
 side
 Then look for rocks when you go
 for a ride.

From Shop Notes &
 News via The Agatizer.

KEEP THESE DATES IN MIND!

JUNE 13-14-15---the American
 Federation--Rocky Mountain Fed.
 meeting and convention will be
 held in Denver, and sponsored by
 the Denver club.

JUNE 27-28-29--the MIDWEST FED*
 ERATION Field trip convention
 which will be held at Platteville
 Wis. Host club will be the
 Madison Lapidary and Mineral Club.



There are hardy people in this neck-of-the-woods. Presque Isle is closed to traffic in winter but a few feet of snow doesn't stop the Jenkins and Engstroms from plodding thru it to get to the shores of Lake Superior and look for agates. Any luck? Maybe we wont wait for Spring either.

Mr. & Mrs. Jenkins made a recent trip to the Copper Country. While there, they stopped at the "Houghton Agate Shop" and visited with Rose and Godfrey Samuelson.

Missed the Bob Schenks' at our last meeting. They were in Chicago attending their daughter's wedding, also a wedding of their nephew the same day. Bob had time to squeeze in a Lap. class with Mrs. Tom Roberts, from the Roberts Rock Shop.

Each time the KREBS of Saginaw go thru Muskegon Heights, they stop to look at the Petoskey Stone embedded in the pavement at 2232 Peck St. Each time it seems to be polished a little brighter. Some day it might repose in the Krebs' collection, if they have anything to say about it.

Mrs. Lyde Trebilcock is back from Appleton where she took a course in Silverwork. The earrings she designed and made a beautiful. We think she would make a good teacher for a class in silverwork.

For laughs and chuckles, read the "ORANGE GULCH GAZETTE" any issue

CONGRATULATIONS---Champ and Katherine Lemin on your 25th wedding anniversary. May you have many more happy years together.

The Ishpeming Rock & Mineral club and the Ish. 4H Jaspilites have placed displays of rocks in the windows of the Greater Ish. Chamber of Commerce office at 2nd and Pearl Sts.

We have also been asked to display in the Sports Federation Show to be held in the Negaunee Memorial Gym April 24 & 25.



Happy to you
Easter too!

If a WAC is a lady soldier and a WAVE is a lady sailor, What is a WOK?

(answer on next page)

AN OVERNIGHTER

While glancing through an old issue of the Readers Digest, I came upon the quotation "When choosing a hobby to fill empty hours, pick one that will not only enrich your own life, but also give pleasure to others." There are probably many hobbies that will meet these requirements, but the one that comes immediately to my mind is the collecting of 'rocks and minerals.'

Let's take each requirement separately and see for ourselves just how it works out. We'll take a field-trip and see how our own lives are enriched by it.

We'll start early in the morning of course, because we've got a long way to travel. The cars, full of rock-hounds, meet at the designated spot and there is a lot of good-natured bantering while waiting for the last cars to show up. We finally start traveling just as the sun begins to rise above the distant hills and if you haven't seen a sunrise for a long time you can't help but get a feeling that somehow this is going to be a special day. One that you'll remember for years to come.

Our first stop is at an abandoned mine dump and here we learn firsthand how nature has formed many of her minerals. Leaving here and traveling on a narrow dirt road, the leader of the field trip stops his car to point out a huge black bear, which has just crossed the road, and now and then a white-tailed deer bounds across the road in front of us. We stop to eat our lunch on top of a very high hill where the scenery stretches out below us in a panoramic view of unsurpassed beauty, making us feel that we are truly sitting on top of the world. After an afternoon of visiting several mines and learning something about the way they operate and collecting some of their minerals we are ready to eat a hearty supper. The glow of the campfire and the smell of wood smoke

make us think back to the days when this sort of thing was a way of life and we get pangs of nostalgia. Later, as we lie in our sleeping bags and listen to a light rain beat on the tent and boom of the surf on Lake Superior, we fall into a sleep that is usually credited only to very small children who are unburdened by the cares of the world. It seems but a moment now until the leader of the field-trip is shaking us to start another day among nature's wonders.

Have our lives been enriched by this experience? It would take a very calloused person to say "no".

Upon our arrival at home, we start to unload the car and it seems like all the children in the neighborhood have been awaiting our return, yes, and some of the parents too. Every specimen has to be shown and examined and a brief history told before we can haul them into the basement to be trimmed and cleaned. After sorting them out and cataloging the best, we put them in the display case and stand back and admire them. Several of the neighbors have dropped in and their "oh's" and "ah's" make our chest swell with pride.

Has our hobby given pleasure to others? Yes, because all who have viewed our treasures and have asked questions about them have had their lives enriched.

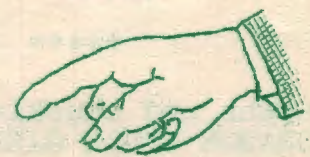
BERNARD DOOLEY
Iron River

1957

DUES

NOW

PAYABLE!



Rockin' around (cont.)

Answer: A WOK is somefin' you frow
* at a wabbit. *
* *

Friends LIL AND JOHN MIHELICIC are planning on a trip to Nova Scotia and Newfoundland this coming summer. Good hunting, Lil and John!

A letter from Bob and Anita Davis members and past officers of our club, who are now residing in Silverton, Idaho, contains this bit of interesting news. Bob tells us that he is working at the Star Mine in Burke, Idaho. (Watch for the next issue of the Jaspilite for details on the Star Mine). Bob informs us of a recent trip he and Anita took through Mr. Banier Nat'l Park, Seattle, Tacoma, Victoria, B.C., Olympic Peninsula, along the Oregon Coast Mr. Shasta (not Michigamme), Crater Lake Nat'l Park, Mt. Hood, Portland, Ore., Columbia River Gorge and then home.

WOW! We sure envy you with so many National Parks practically in your back yard. Till we hear from you again, the best wishes of the club is being sent your way.

Greetings arrived from HARRIET DUNN in Florida. Seems her trip around the world didn't materialize this year so she is spending the winter in Florida. We hear the Agatized Coral there is beautiful. Good pickin', Harriet. She hopes to take the originally planned trip next Sept.

TAKE IT EASY

The average man 35 years old has 18,408,600 minutes to live. If he takes a chance while driving to save a minute he is gambling 18,408,600 for one.

We read in the Feb. issue of "THE CONGLOMERATE" that a new club has been formed at Muskegon, Mich. We join the CONGLOMERATE staff in extending best wishes to this newly formed club.

HATS OFF! to Len Trebilcock and the Dooley's, Bernie and son Mickey, who have recently made big news. On page 20 and 21 of the Nov.-Dec. 1956 issue of "THE INLAND MINE AND QUARRY NEWS" are several excellent pictures of these gentlemen and their collections as well as an article on each

NOTE TO HAMMERHEAD! Please note Mr. Hammerhead that ISHPERING is not spelled ISPEMING. No offense committed, but for the information of those who stutter over the name it is pronounced just as it is spelled--ISH--PEM--ING. We enjoyed your article a lot AL. We ask our members to read about AL'S trip to Ishpeming in the March issue of "ROCK RUSTLERS NEWS".

Member, BOB PAPE of Utica, Mich. will hold open house on March 24th. Bob will display \$50,000 worth of Diamonds in addition to Chatham Emeralds, Linde Star Sapphires and Rubies. All members are invited to visit Bob and his excellent display. Wish you were closer, Bob!

Our congratulations to the FLINT ROCK AND MINERAL CLUB, newly organized, for starting right off with a very nice job on their bulletin. Our very best wishes for both your club and your bulletin. If we can help you on your pending field trip to the U.P. drop us a line and we'll see what we can do to help.