



JASPILITE

Ishpeming Rock and Mineral Club
P.O. Box 102
Ishpeming, Michigan 49849

Welcome Friends,

We have a busy summer a head of us. It's show time! There is a lot of work to be done and everyone's help is appreciated. Be sure to contact Ernie or Kathy if you can lend a hand. Even an hour or two can help us a lot in getting ready for the show. Here's to another fun packed edition of the Jaspilite!

Happy reading,

Pam

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Meeting Schedules

Business Meetings: 2nd Thursday of Month, 7:00pm @Jacobetti Veterans Facility,
425 Fisher St. Marquette, MI 49855

Program Meetings: 3rd Sunday of Month, 2:00pm @ Marquette Township Hall,
161 Co. Rd. 492, Marquette, MI 49855

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IRMC Contacts

President:	Ernie Johnson	(906) 228-9422	Liaison:	Dave Olsen	(906) 228-9829
Vice President:	Ray DeMark	(906) 225-5488	Librarian:	Ernie Johnson	(906) 228-9422
Secretary:	Kathy Waters	(906) 486-9094	Curator:	Olive K. Sain	(906) 226-7325
Treasurer:	Helen Johnson	(906) 228-9422	Editor:	Pam Basal	(906) 942-7108

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Purpose Statement

To enjoy, to learn, to teach and to conserve
The rocks, the gems, the fossils and ores,
To collect, to admire, to brag and to show
The material we've found, we'll trade for yours.

Bob and Marion Markert

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The JASPILITE

The Official publication of the Ishpeming Rock and Mineral Club is published quarterly in January, April, July and October. NOTE: The above logo and club name are registered.



From The President's Desk

Well here I am last minute writing some thing for the Jaspilite. I should say trying to write something. It is difficult to separate my thoughts between the desk of the president and the Mini Show. It seems most of my time and thinking is directed toward the show at this time of year, but here goes.

I believe on of the responsibilities of the president is to get and keep people involved in the activities of the club. By getting them involved, the opportunities to learn and interact with fellow rockhounds will enhance an individual's knowledge and understanding of the hobby. The club itself serves only as a tool to bring together individuals like yourself to meet, share ideas and ask questions. The president can only try to keep thing going.

For the club to continue and to move forward your ideas and suggestions are needed. New members are another area where help is needed, as they are our life blood to the future. Our future lies with the kids and getting them interested in the rocks and minerals.

I would like to call attention to three individuals and the activities that they have undertaken... the field trips that Mike Basal has put together for the club this summer. He has given the club members the opportunity to collect in some new areas. I hope you have planned on taking advantage of them... Ray DeMark's mineral of the month has added to the program meetings. He has made you do a little research which means you are learning while having a chance to win a very nice specimen. Al Smith, who took on the responsibility to work on the Geneva Shaft Iron Mine Model, is getting it set for the show. These are just three individuals out of many within the club who have stepped forward to take on activities for the club for your benefit.

Enjoy yourself, the world around you and the great outdoors.

Ernie Johnson, President



HELP HELP HELP

We need someone to over see the refreshment committee starting in September. It does not require a lot of time, just a couple of hours a month. It will provide an opportunity to meet fellow club members and become involved in a small way in the activities of the club.

If we are not successful in getting a volunteer, changes will have to be made, as to when or if refreshments are available at meetings.

Ernest Johnson, President



Kid's Corner

Unscramble the letters

LVSIRE

RAHD THA

FTHAS

NIRO

LCTIEAC

GIMNIN

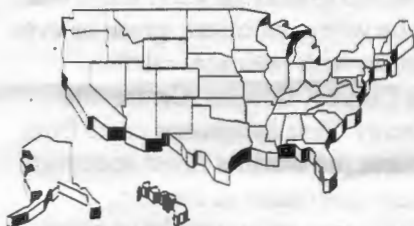
ROE RCA

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PDARAIYL

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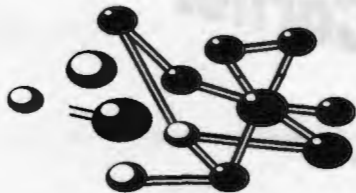


SHOWS

<u>Date</u>	<u>Event</u>
July 9-11	Nashville, TN- Southeast & American Federations Convention & Show.
July 23-24	Frederic, WI- Indianhead Rock & Mineral Society 32 nd Annual Show. Frederic Elementary School.
July 24-25	Minocqua, WI- 31 st Annual Gem & Mineral Show. Lakeland Gem Club, Lakeland High School, HWY 70 West.
Aug. 6-8	Ishpeming, MI- Ishpeming Rock and Mineral Club Show. Field Trips for Aug 6 & 8. Show on Aug. 7.
Aug. 7-8	Tomah, WI- Driftless Area Gem & Mineral Club. Masonic Center 520 E. Saratoga St.
Aug. 8-14	Houghton, MI- Red Metal Retreat . Swap & Sell – Aug 14 – Quincy Mine Hoist. 9-5.
Aug. 14	Barron, WI- Northwest Wisconsin Gem & Mineral Society. Barron City Park.
Sept. 3-5	Southbend, IN- Michiana Gem & Mineral Society, Century Center, 120 S. St Joseph Street.
Sept. 17-18	Holland, MI- Tulip City G&M Club, 30 th Annual Show at Holland Civic Center, 150 W. 8 th Street.
Oct. 15-17	Ft. Wayne, IN- Three River Gem & Mineral Show. Allen City Fairgrounds
Oct. 22-24	Lansing, MI- Central Michigan Lapidary and Mineral Society 34 th Annual Gem and Mineral Show at Marshall Street Armory.

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“ Most of us wil never do great things, but we can do small things in a great way.”



Mystery Mineral

Remember, research the mineral before coming to the program meetings. This way your chances of winning are better.

September-

The mystery mineral for September is a relatively common mineral. It is often found associated with zeolite minerals but it is not a zeolite. It is a potassium, calcium silicate ($\text{KCa}_4\text{Si}_8\text{O}_{20}(\text{F},\text{OH}) \cdot 8\text{H}_2\text{O}$). The chemistry is such that if fluorine (F) predominates over hydroxyl (OH) the species name changes. What I'm looking for is the group name for the series. It forms tetragonal crystals that are commonly pseudocubic but crystals may be tubular, pyramidal or long and square prismatic. The hardness is $4\frac{1}{2} - 5$ with a specific gravity of 2.37. It has one perfect cleavage and one imperfect. It is brittle. The color may be white, colorless, green or even pink. It is found primarily in basaltic rocks and often in association with prehnite, calcite, analcime and stilbite. Notable occurrences in the U.S. are Lane County, Oregon, Centreville (Fairfax), Virginia and in the trap rocks of northeastern New Jersey. Fine specimens came from many worldwide locations but the Poona district on India produces the world's finest specimen (some of which are brilliant green.) It has been found in excellent specimens in the Copper Country of the U.P. (primarily in Keweenaw County). Particularly nice specimens have come from Phoenix mine and the Cliff mine. Good luck!

October-

The mystery mineral for October is a common mineral that virtually all collectors have in their collection. Therefore, everyone should be able to figure this out. The chemistry is very simple. It is a calcium fluoride (CaF_2). It has cubic symmetry and perfect octahedral cleavage. The hardness is 4 and the specific gravity is 3.18. It is a brittle mineral. Crystals are usually cubes or less commonly octahedrons but other faces (hexoctahedron, dodecahedron, etc.) can often be observed. It may also be massive, coarse to granular or even botryoidal. It may be colorless but is often various shades of purple, blue, green or yellow. It has a vitreous luster and is usually transparent to translucent. It is commonly fluorescent. It is a common mineral in hydrothermal ore deposits and in countries in sedimentary rocks. Southern Illinois has produced probably the finest specimens of this mineral and in large quantities. Other well known U.S. locations include: Clay Center, Ohio, Elmwood mine, Carthage, Tennessee, The Blanchard mine near Bingham, NM and the Woolworth Quarry in New York. Cumberland, England has produced a large amount of very fine specimens and oink octahedrons of the mineral from Switzerland are highly valued. It is found at a number of areas in the U.P. and also in lower Michigan. It occurs as anhedral masses in pegmatites near Republic. I expect a correct answer from all club members on this one.

Answers for:

April- (guessed by)

May- Sphalerite (guessed by Bob Clark)

Thought for the Day!

Clean out the Trunk,
Sweep out the car.
Haul in the rocks,
In carton and jars.
Down in the basement,
Stack them with care;
And five years later,
They will still be there.

1- Escom (May 99), The Petosky Stone via Rockhound Harold, 10/93



MEETINGS

<u>Date</u>	<u>Speaker/Activity</u>	<u>Refreshments</u>	<u>Door Prizes</u>
7-8-99	Business Meeting		
8-12-99	Business Meeting		
9- 9-99	Business Meeting		
9-19-99	Program Meeting/Show & Tell		



Happy Birthday & Anniversary!

For all of those who celebrate these wonderful occasions for this issue, we wish you many, many more.

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Kids Komer Answers:

**SILVER, HARD HAT, SHAFT, IRON, CALCITE,
MINING, ORE CAR, HEADFRAME, PICK, LAPIDARY**
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We Say Goodbye

**Jesus, Someone I care for lives with You now,
 I feel very sad because that person is not here.
 Sometimes I cry... to let the sadness out.
 Lord, you say that people who live with You are happy.
 In heaven, there are angels and friends and family.
 Jesus, please help me to remember that someday we will be together again with the
 ones we love...
 And we will live forever with You in heaven!**

Sheryl Crawford

Since the last Jaspilite, the club has lost two active members, Nelson Short and Les Anderson. Both of these individuals were willing to share their knowledge and expertise with anyone at any time. They and their willingness to help any one will be sadly missed by all who knew them.

What's the Difference?

A **NODULE** is a rounded mass of irregular shape, a little knob or lump of any kind of mineral. The word nodule comes from the Latin word meaning "knot".

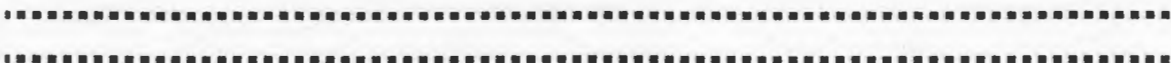
A **GEODE** is a nodule that is hollow or has a cavity that is often lined with one or more minerals. The word geode comes from the Greek word "earth form".

A **CONCRETION** is a mass formed by the aggregation and precipitation of some minerals like quartz or calcite around a nucleus that is often a fossil. The word concretion comes from the Latin word "to grow together."

- from THE CORAL GEODE 5/91 via BRECCIA 2/96 Patricia Speece, Editor,
 via The Lithnics 4/99 via THE FLINT GEMSTONES June 1999

A Rockhound is the only person who is happy when down in the dumps.

From the Escomo





Meeting Minutes

May Program Meeting-

Meeting called to order by Ernie Johnson. 19 members present. No meeting minutes read, secretary was absent. Treasurer's report read and accepted. Old Business: Silent Auction went well. Ernie gave thanks to all who donated and all those who purchased. Ernie will look into the feasibility of obtaining an insurance policy from the Midwest Federation next year and compare it to our present one. New Business: Ernie reported that he has 970 raffle tickets out at this point and has received 6 inside and 4 outside reservations for spaces at the 99 Mini-Show. A new listing for volunteer workers at the show was circulated. Ernie encouraged anyone that wished to set up a display at the show to contact him as soon as possible. Two demonstrations have been scheduled to date; more are needed. Flyers and raffle tickets are available today from Ernie should anyone wish to pick them up. Pam Basal reported on the Food Booth and Kitchen. She has found out that the club may use the Township's license and that no inspection will be conducted the show date. Not having to purchase the license will save the club \$50.00. Other than a few items, all food and paper supplies have been promised to be donated by many businesses. The menu will be sloppy joes, hot dogs, chips, pop, milk, coffee and donuts. Coupons for free coffee and donuts will be given to the vendors. Ernie is looking for more raffle prizes. Kathy is handling this. Members are encouraged to call her and report what they will be donating for prizes. Silent Auction slips are available now for members to complete before bringing items to the 99 mini-show. Ernie and Bob Clark reported on the possibility of leasing by the club the Ohio Mine from CCI. Bob is currently working on the idea and feasibility of the leasing. Next business meeting has been changed from the second Thursday of June to the third Thursday of June. Meeting place is the Cliffs Shaft Mine location so that club members can familiarize themselves with the anticipated meeting rooms to be set aside for them. The steering committee for the Cliffs Shaft Theme Park is requesting input from the club as to its needs and wants. It was suggested that the membership go to the Country Kitchen for coffee and pie afterwards. Ernie reported that the Cliffs Shaft Theme Park is many years down the road due to the great need for a large amount of money to develop it. Discussion on Jaspilite ads. For 4 issues of Jaspilite: full-page ad \$100.00, ½ page ad \$50.00, ¼ Page ad \$25.00, Business Card size \$10.00. Olive Sain made a motion that the club send to Marian Short a letter and donation of \$25.00 to purchase her choice of plantings for Memorial Day in memory of Nelson Short. Motion seconded. Ernie also expressed the club's sympathies to Ingrid and Bart Bartelli on the accidental death of their grandson recently. Upon suggest by Ingrid Bartelli a few weeks ago, Ernie presented to the club the opportunity to make honorary members of John and Anna Koontz of Pennsylvania. The Koontz's became benefactors of the IRMC many years ago after a trip to the UP to collect rocks. As narrated by Olive Sain, they became fast friends with the Bartellis and have for several years kept the club in polished rocks for use on our silent auction tables and for presentation to children when club members go to schools or organizations to speak. A sign-up sheet for the June 21 field trip to the Humbolt Crusher location of the Ropes Gold Mine Mill and the July 18 field trip to the Minesota Mine was circulated. The meeting places will be at 9am at Blockbusters in Marquette, then on to Snyders in Ishpeming and finally to the M-95 intersection. The Basal's donated the door prizes for May. Winners were Leon Anderson, Helen Johnson and Pat Proconier. An enjoyable slide program on gold and related minerals in Marquette County was presented by Mike Basal. Along with the slides, Mike presented several specimens for viewing. Pat Proconier served a delicious lunch of which all persons present availed themselves.

June Business Meeting-

Business Meeting on June 17. We met at the Cliffs Shaft Buildings (5:30) for a tour. Aprox. 12 members were there. Then we went to the country kitchen at 7:30 for a business meeting. Pres. Ernie Johnson called the meeting to order. Minutes were read as written and approved. Treasurers report was read as written and approved. Bills presented were the storage building rental fee and the Post Office Box rental fee. Also flowers were sent from the club for the Nelson Short funeral. No one has come forward with the safety deposit key as of yet. Ernie hasn't had a chance to do a comparison on the Midwest insurance as of yet. No word from Bob Clark on the leasing of the Ohio mine. Also no word yet on the Republic Mine field trip, Bob Clark was checking on that. Long time club member, Leslie Anderson died June 12. A card was sent by Pat Procnier. Swap- Raffle prizes- So far 2 books were donated by Dan Fountain. 5 or 6 members will set up displays. Al Smith will set up the model mineshaft display. Flyers are being distributed. Ray Demark will give his presentation on iron county minerals. Meeting was adjourned at 8:00.

What is a Phantom Crystal?

A phantom crystal is actually a crystal within a crystal. The makeup of the phantom must be the same as the one which enclosed it. There may be more than one inside a single crystal. The usual explanation of phantoms is intermittent growth, growing for a while, then stopping. For a period the crystal is exposed and a very small amount of foreign matter (dust, etc.) falls on its surface.

The conditions then change and the crystal starts to grow again, with the possibility of this happening several times. The result is a crystal that appears to have one or more crystals enclosed within in it. Sometimes phantoms are oriented the same as the enclosing crystal; at other times they are not. In clear crystals, such as quartz, the enclosed crystal appears shadowy and faint, and therefore we have the name Phantom. The difference between a phantom and inclusion is that the inclusion must be a different mineral species. Via Chip & Lick, via Show-Me Rockhounds, Inc. Nov 98 Newsletter.

E-Mail Opps!

A businessman from Wisconsin went on a business trip to Louisiana. Upon arrival, he immediately plugged his laptop into the hotel room port and sent a short E-mail back home to his wife, Jennifer Johnson, at her address, JennJohn@world.net. Unfortunately, in his haste, he mistyped a letter and the E-mail ended up going to JeanJohn@World.net, a Jean Johnson in Duluth, the wife of a preacher who had just passed away and was buried that day. The preacher's wife took one look at the E-mail and promptly fainted. It read: "Arrived safely, but it sure is hot here!"

From Chips 11/98 via Gneiss Times 12/98 via Quarry Quips 2/99 via Earth Science News 3/99



Recipes

From the Kitchen of Pamela Basal:

Jello Cake

- 1- White Cake Mix
- 1- small box Jello (any flavor)
- 1- small container non-dairy topping

Bake cake as directed in a 13 x 9 pan. When cake has cooled, poke many holes in cake. Mix jello mix with 1 ½ cups boiling water. Dissolve completely. Pour over cake evenly. Cool. Spread whip topping on and slice. Great summer time dessert.

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From The Internet

David received a parrot for his birthday. The parrot was fully grown with a bad attitude and worse vocabulary. Every other word was an expletive. Those that weren't expletives, were to say the least, rude.

David tried hard to change the bird's attitude and was constantly saying polite word, playing soft music, anything he could think of to try and set a good example...

Nothing worked. He yelled at the bird and the bird yelled back. He shook the bird and the bird just got more angry and more rude. Finally, in a moment of desperation, David put the parrot in the freezer.

For a few moments he heard the bird squawk and kick and scream – then suddenly, there was quiet. Not a sound for half a minute.

David was frightened that he might have hurt the bird and quickly opened the freezer door. The parrot calmly stepped out onto David's extended arm and said, "I believe I may have offended you with my rude language and actions. I will endeavor at once to correct my behavior. I really am truly sorry and beg for forgiveness."

David was astonished at the bird's change in attitude and was about to ask what had made such a dramatic change when the parrot continued,

"May I ask what the chicken did?"



Treasured Hints

As everyone knows you always find a better way to do something over time. And those of us who haven't been at it for very long appreciate those helpful hints to get us started. If you have a helpful hint that you want to share, let me know.

(via The Tulip City Conglomerate April 1999 Newsletter)

How often have you heard someone say, "I just can't get a really good polish on. I must be doing something wrong." The following list of stones and polishes may just help to solve that problem, and help you enjoy our hobby more. - from the PUGET SOUNDER, 9/88 via GEMS 11/96

Recommended Polishes

CMO = Cerium Oxide
DIA = Diamond

TO = Tin Oxide
CHO = Chrome Oxide

LA = Linde-A

ACTINOLITE	= TO	EPIDOTE	= TO	POLLUCITE	= CMO
AGATE	= CMO/TO	EUCLASE	= TO	QUARTZ	= CMO/TO
ALABASTER	= TO	FELDSPAR	= CMO/TO	RHODOCHROSITE	= TO/LA/CHO
AMAZONITE	= TO	FLUORITE	= TO/CHO	RHODONITE	= CMO/LA/CHO
AMBER	= TO	GARNET	= CMO/TO/LA/ DIA/CHO	RUBY	= DIA
AMBLYGONITE	= TO	GOLDSTONE	= CMO/TO	RUTILE	= LA
ANDALUCITE	= TO	HEMATITE	= CMO	SAPPHIRE	= DIA
APATITE	= LA/CHO	HICKORYITE	= LA	SCAPOLITE	= CMO
AVENTURINE	= TO	HOWLITE	= CMO/TO/LA/ CHO	SCHEELITE	= CHO
AZURITE	= TO/CHO	HYPERSTHENE	= TO	SERPENTINE	= TO/LA/CHO
APOPHYLLITE	= CHO	JADITE	= CMO/TO/LA/ CHO	SMITHSONITE	= TO
ARAGONITE	= CHO	JASPER	= CMO/TO/LA/ CHO	SODALITE	= CMO
AXINITE	= CMO	KYANITE	= TO	SOSOLITE	= CMO
BARITE	= CHO	LABRADORITE	= TO/CHO	SPINAL	= TO/LA/DIA
BENITOITE	= CMO	LAPIS LAZULI	= TO/LA/CHO	SPHALERITE	= CHO
BERYL	= CMO/TO/DIA	LIMESTONE	= CMO/TO/LA/ CHO	SPODUMENE	= TO
BLOODSTONE	= LA	LAPIDOLITE	= CHO	SUNSTONE	= TO
BRAZILIANITE	= TO	MALACHITE	= TO/LA/CHO	THOMPSONITE	= CMO
CALCITE	= TO/CHO	MOONSTONE	= TO	TIGER-EYE	= CMO/TO/LA
CASSITERITE	= TO	NEPHIRE	= TO/LA/CHO	TITANITE (SPHENE)	= TO
CELESTITE	= CHO	OBSIDIAN	= TO/CHO	TOPAZ	= TO/LA/DIA
CEROSSITE	= CHO	ONYX	= CMO/TO/CHO	TOURMALINE	= TO/LA/DIA
CHRYSOBERYL	= DIA	OPAL	= CMO/TO	TURQUOISE	= CMO/TO/LA
CORAL	= TO	PERIDOT	= TO/LA/DIA	UNIKITE	= CMO
CORUNDUM	= DIA	PETRIFIED WOOD	= CMO/TO/LA/ CHO	VARICITE	= CMO/TO/LA
DANBURITE	= TO	PHENACITE	= TO	VESUVIANITE	= CMO
DATOLITE	= TO			WILLIAMSITE	= LA
DIOPSIDE	= CHO			WONDERSTONE	= TO/LA
DIOPTASE	= CMO			WULFENITE	= CHO
DIORITE	= CMO/TO/LA/ CHO			ZIRCON	= TO
ENSTATITE	= TO			ZIOSITE	= CMO



Information Highway

This section is to share new web sites and computer information for those of us that are trying to survive on the information highway called the Internet. If you have found an interesting web site, share it with us.

The Club Has A Homepage!!! Check It Out!

<http://hometown.aol.com/irockclub/IRMC.html>

We also have an E-mail address: IROCKCLUB@aol.com

If you are a member of the club and would like a link on the website, write and tell us. For members it is free.

Check out these other interesting sites:

Members Sites:

Dan Fountain's Home Page: <http://www.portup.com/~dfount/home.htm>

Mike Basal's MPB Minerals Home Page: <http://hometown.aol.com/mpbmincoll/MPB.html>

Kathy Waters' The Michigan Catalog. Fire Center Studio:

<http://urbiz.com/catalogs/firecenter/index.html>

Other Sites:

International Calcite Collectors Association: <http://www.rockhounds.com/icca/>

Jonathan's Mineral Exchange (Canadian site): http://www.canacomp.com/mineral_exchange/

Club Members

I received a call within the last month from Linda Wilson, who works at Wattson & Wattson. She is looking for some one to work with her on a lapidary project. If you are interested, please give her a call at 906-228-5775.

Ernie Johnson

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THE UPPER STOPE

A Story of
Prospecting and Collecting in the
Gold Belt of Marquette County
By Michael P. Basal

My interest in Gold, and the associated minerals, started around 1985 with the reactivation of the old "Ropes Gold Mine", near Ishpeming, Michigan. I started with the naive assumption that the gold would be easy to find in "any" rock from that mine. I would spend countless hours collecting and examining any rock I could obtain from there. Early on, the haulage trucks that carried the ore were notorious for "losing" rock/ore along the route between the Ropes Mine and Mill (a distance of some 15 miles). I knew all the "bad sections" of roadway that would likely "shake" pieces of the ore loose. There was even one truck that had an accident and overturned, spilling the ore. Yes, it was cleaned up but, they hardly gathered it all!

Anyway, I never found any gold this way but, I did learn a lot! Most of the Ropes ore didn't carry any free/native gold but, only microscopic grains of it in the "ore" that graded approximately .10 oz gold per ton of ore!

Finally, in early 1990, after the Ropes Mine closed, I found my first piece of gold! A piece as big as your thumbnail pounded and flattened free of matrix being tumbled in the ore pile. This "was" located along the shoulder of Co. Rd. GGL at the Ropes Mine. Several tons of "production ore" had been placed there for tourists and treasure seekers (like myself) to pick through and collect, in an effort to keep people off of the mine property. It has since been removed for "road fill" by the county. My wife, Pam, found a similar nugget, only inches from where I found mine, the next day. We searched that pile for the next month but turned up nothing.

The next few years were "lack luster" as I was mainly occupied building our home. I returned to gold prospecting in early 1996, and I had set my sights on the "Michigan Gold Mine", also near Ishpeming. During the winters of 1994-96 I had read countless old accounts of the native gold, occurring in the quartz, in nearly unbelievable quantities there. Well, I was convinced those "old timers" could not have gotten it all!

I decided the most effective way, to find any gold remaining, would be to get permission from the mines current owners to "work" the rock dumps on a "larger" scale. As fate would have it, the Michigan Gold Mine property had, at that time, just transferred to new owners, "Mineral Processing Corporation." It's president, Tom Quigley, was open minded to my request and granted me permission to work/collect on the dumps on the condition I report any gold, and the associated minerals, I find there to him. I worked the "number 6 shaft" dump (the largest) there throughout 1996 without finding any gold. One small, micro piece, had been found by my wife Pam while she cared for our daughter and "watched me look for the yellow stuff" I had found nice molybdenite and pyrite specimens. I also noted there was relatively little quartz on the dump, the mineral that gold would be associated with. 1997 would be different!

On June 12, 1997, while collecting/prospecting the dumps at the Michigan, I made a very significant observation. Up to this point I had "scoured" virtually the entire number 6 dump and had found very little quartz. Frustrated by this, I sat down in the middle of it and visually scanned the entire pile of rock. I suddenly, thank God, noticed there was a small, but significant, area where there was more quartz than on any other area of the dump. I had checked and sampled this area before but, I had never "dug into" this area (or anywhere else) before. I started to dig into the Quartz area and within 15 minutes I had my first small Gold in Quartz specimen!

Over the next several months I dug deeper into that portion of the dump. The quartz became more prevalent and large in size. I was able to collect and recover more and "better" specimens of Gold in Quartz.

On October 18, 1997 (a nice day in the 60's) I found one large block of quartz. By this time I had learned what "associated" minerals were necessary, in the Michigan Mine ore, to carry the gold in the quartz. The block just looked perfect to carry gold and I set the 1'x1'x1' block of quartz aside. The next day I unloaded the selected quartz pieces and rinsed then clean of the mud and dirt, as I always did prior to breaking them up. On the large block, I set aside, I noticed there was a small area (about 1cm) of gold already protruding from the quartz. At this point I used my "Falcon" gold probe (pinpointing metal/gold detector) on it and tested/scanned the entire block of quartz. I noted at least six areas with "strong" signals indicating possible gold. When I decided to break it up I did so with the precision and skill of a "surgeon". I had marked the outside of the quartz where the strongest signals had been with the detector and from this carefully plotted my first break. The first strike, of my crack hammer and sharpened chisel, saw a cabinet size quartz slab shear off with a gold area, about 3cm long, shining in the sunlight as it skidded along my concrete drive! The block subsequently yielded about a dozen very nice cabinet to thumbnail specimens. To date, this was the best, single, producing block/piece of quartz for gold I have recovered from the Michigan Mine dumps.

There are several other areas where gold (& silver) has been found in Marquette Co. but none better for free - native gold than the Michigan Gold Mine. I have prospected/collected at many of these other old mines and prospects and have found a number of different minerals. Below, I will list by Mine/Prospect the minerals I have found in my 14 year quest!

Ropes Gold Mine, near Ishpeming, MI: Chrysotile (ASBESTOS), Serpentine (antigorite/picrolite), Galena, Tetrahedrite - included the silver bearing "Freibergite" variety, Molybdenite, Pyrite, Chalcopyrite, Goethite, Calcite, Dolomite, Chlorite, Talc (white & green), Quartz and native Gold.

Michigan Gold Mine, near Ishpeming, MI: Molybdenite, Galena, Pyrite, Chalcopyrite, Schorl-Tourmaline, Scheelite, Powellite (Powellite, like Sheelite, is fluorescent under SW UV light and is a "new location" for this mineral in Michigan), Chlorite, Pyrrhotite, Quartz and Native Gold. Also, a "new", yet unidentified, "Bismuth - Telluride" mineral I discovered. Currently it is being researched by Dr. George Robinson of the Seaman Mineral Museum, MTU, Houghton, MI

Holyoke Mine, N. of the Dead River, Marquette Co., MI: Galena, Sphalerite, Chalcopyrite and Quartz

M.P.C. Prospect, approx. 8 miles N.W. of Ishpeming, MI: This prospect has produced some of the richest, massive, specimens of Galena and Sphalerite in Michigan. Also, Pyrite, Chalcopyrite, Quartz and "Hydrozincite" - (a new mineral to Michigan).

M.P.C.'s Gold Bluff prospect, Marquette Co., MI: Quartz, Bismuth - Telluride, Pyrite, Limonite and Native Gold.

Silver Lead Mine, near the former KI Sawyer AFB, Marquette Co., MI: Galena, Dolomite, Pyrite, Chalcopyrite and Quartz. The galena here is silver bearing (assays at 1oz/ton of ore). Also, I have found that the minerals here do occur in "small crystals." While most of the material is "massive" it's noteworthy because virtually none of the other locales produce crystals of any kind.

Note: I will have a small display of some of the minerals of the Michigan Gold Belt at the club show August 7, 1999.

Finally, I must thank "Tom Quigley" and Minerals Processing Corporation (MPC) for their granting me permission to collect on their holdings. Also, I must add, that I obtained permission to collect on all properties mentioned herein. At the Holyoke Mine I respected all the fences and No Trespassing signage and collected only on dump material well "outside" the posted areas. I must also emphasize to everyone interested in collecting at those, or any location, that you should always obtain proper permission before entering/collecting on those properties. Further, one must be aware that many of these properties can have "Hazardous" areas and/or caving ground. You "must" be aware of these dangers "At All Times!" I cannot and will not recommend that anyone enter those properties. The Ishpeming Rock and Mineral Club has arranged several "Authorized" collecting trips this year to the Ropes Gold Mine and Mill sites. Those interested should contact the club for more information.

Michael P. Basal



HOT TOPIC

It's a hot Topic.

MINI SHOW 1999

August 6, Field Trip

August 7, Mini Show

August 8, Field Trip

As they say time waits for no one. The same can be said for the MINI SHOW time just keeps marching toward August 7. Every thing is moving toward another great show. The question that you need to ask yourself, will you be a part of it!! A few new items have been added to this years show, the working model of the Geneva Shaft Iron Mine, the available of food on site and a kid's fishpond where they will be fishing for rocks. As always, we are still looking for a few more volunteers, so that no one person has to work more than 2 hours. I you have not VOLUNTEERED give either Kathy or me a call as the work schedule is being put together. We could use a few more Raffle prizes, door prizes and those extra specimens you may have around the house/basement/garage for the Silent Auction tables. Please help us by having your silent auction items identified before you drop them off. There is still room for a few more mineral displays and one or two more working demonstrations. People really enjoy viewing the displays and demonstrations as they enhance the over all show. The Saturday night activities always prove to be an enjoyable time for all. Ray DeMark has volunteered to put on a short program on mining. Carrying on a tradition starting many years ago, club members are asked to bring a dozen or so bars, cookies, etc. for the Saturday evening get together. It is the clubs way to say thank you to all who attended the show at a coffee hour after the raffle drawing. Don't forget the field trips on Friday, August 6 and Sunday August 8, **HARD HATS ARE REQUIRED.** Fridays trip will be to the Ropes Mine Crusher area. This is a new area and who knows what you may find. Sundays will be to Lindbergs it for Kona. To really enjoy the show you need to become part of it in some way. Please tell your friends and who ever else and encourage them to come. Don't forget the kids. If you have any questions please contact either Kathy or me.

Ernie Johnson, Show Co-chairperson



A Bit of History

This month's bit of History is coming the January 1979 Edition of the Jaspilite. One of our beloved members gave us his account of an adventure that took place in the summer of 1978. Thank you to the late Laurence Sain for his wonderful memories and all that he did for the club.

Reminiscing about 1978

As I sit here at my desk warm and snug against the cold (the temperature is below zero both Fahrenheit and Celsius scales, and there is at least 18 inches of snow on the ground), I can, through idle reminiscing, relive some of the enjoyable trips of the summer of 1978.

One of the most memorable, enjoyable, and educational occurred while traveling with the Midwest Geological expedition under the guidance of Don Clarke. After a week spent visiting and collecting materials and specimens in the Iron County with headquarters at Michigamme Shores, we headed north and west and set up new headquarter at Twin Lakes State Park. Our first trip was to the Quincy Mine which was being operated as an educational venture by Michigan Technological University. Our guide had secured permission for us to actually enter the mine. As the group was large, we were divided into three groups. While one group was taking the tour, the others could prospect on the poor rock piles. My metal detector only discovered a deeply-buried rail and a few small pieces of copper. However, Ingrid Bartelli found a beautiful specimen at the foot of the pile without a detector.

Finally the time arrived for our group to enter the mine, a time for which we had been impatiently waiting. We had been informed that lights, hard hats, safety glasses and boots were necessary; also that it would be cool and jackets would be needed. We entered through an adit which seemed to be on a slight upgrade. The ground was wet and sloppy, and the clay was very sticky, almost pulling off one's boots at times. As we progressed down the adit, our guide pointed out veins of copper-bearing rock. We also observed the classrooms cut out of solid rock where students would carry on their studies. These were heated electrically and were quite dry as compared to the adit. We walked past huge machines which were used for transporting the rock to the outdoor rock pile. All of this area was lighted with electric lights. After we had walked a considerable distance, we came to an area where the present mining was taking place. The guide pointed out the drilling process and the blasting that would take place and also the drifts which followed the copper-bearing rock veins.

The most exciting part came next. We were asked if we would like to see the old Quincy Mine shaft which came down from above. A goodly number of us eagerly accepted the invitation. We needed our hand lanterns and flashlights from here on. The adit grew narrower and lower, hard hats often bumped the roof. It became cooler and cooler with a really strong blast of air when we reached the old shaft. Here there were several drifts leading off. Our guide said that if we wished we could hunt for specimens for awhile. Copper was not hard to find as you could see it sticking out of the wall in numerous places. I selected on small chunk and began working with hammer and chisel. I worked and worked, other were doing the same, but it would not cut or let go. Finally I spotted an old rusty bar lying there. I used it as a pry and out rolled a piece of pure copper about half the size of my fist. It was somewhat battered but a prize piece that I had mined myself. I asked our guide how far we were in. He said 2,000 feet into the hill and 400 feet down. I felt like one of the miners of the 1800's having mined a piece of copper with only crude tools, a

chisel, hammer and pry bar. Then we had to move back to the sunshine and out-of-doors taking with us a memory that many of us will never forget.

Another memorable trip was led by our own field trip chairman, Tony LaChance. That was to the MTU Museum. That, however, is another story and should be written up by someone more capable of describing the beautiful and magnificent displays. Suffice it to say, if you haven't been there you should go. I want to go back again.

Many thanks to the people who made these field trips live in our memories to enjoy again and again as we reminisce.

Laurence Sain

From The Internet

The Fence

Author: Unknown

There was a little boy with a bad temper. His father gave him a bag of nails and told him that every time he lost his temper, to hammer a nail in the back of the fence. The first day the boy had driven 37 nails into the fence. Then it gradually dwindled down. He discovered it was easier to hold temper than to drive those nails into the fence.

Finally the day came when the boy didn't lose his temper at all... He told his father about it and the father suggested that the boy now pull out one nail for each day that he was able to hold his temper. The days passed and the young boy was finally able to tell his father that all the nails were gone. The father took his son by the hand and led him to the fence. He said, "You have done well, my son, but look at the holes in the fence. The fence will never be the same. When you say things in anger, they leave a scar just like this one. You can put a knife in a man and draw it out. It won't matter how many times you say your sorry, the wound is still there. A verbal wound is as bad as a physical one. Friends are a very rare jewel, indeed. They make you smile and encourage you to succeed. They lend an ear, they share a word of praise, and they always want to open their hearts to us.



A.E. Seaman
Mineral Museum



The museum will be celebrating their centennial in the year 2002. They are starting to work on the plans for their celebration now. And, they need our help. Everyone in the mineral world has a story or knows someone who does. Maybe your grandfather was a miner. Maybe you have pictures that no one else has. You are our link to the past. We would like to put together a book of these memories. The theme is Mines, Minerals and Memories. Can you help? If so, call or write the Jaspilite editor. She is helping on the committee.

.....



Field Trips



1999 IR&MC MEMBER FIELD TRIPS!

Limit of 50 persons per each field trip. Minor children must be accompanied by a parent or legal guardian.
****Pre-Registration is "REQUIRED!!!" (PLEASE SEE NOTE BELOW FOR ADDITIONAL INFORMATION)**

The field collecting trips have been selected and permission granted by various Mining Companies for a GREAT collecting season this year!

We would like to thank all those involved in granting our club permission to collect on their properties including; *Minerals Processing Corporation, Red Metal Minerals and Coeur d' Alene Mining Corporation.*

****If you plan to attend any or all of the following field trips please notify us and indicate which field trips and how many plan to attend by May 16, 1999. As we must notify the various Companies how many persons we expect on each trip. This may be done at the next two program meetings or by mailing your request in to the club address.**

(Note: all trips begin by meeting at "Blockbuster Video / Kmart parking lot" U.S. Hwy 41 / M28 West Marquette, MI @ 9:00am eastern time. We proceed "convoy" style from here. We will stop in route at the Snyder's Drug store, on U.S. 41 Hwy / M28 in West Ishpeming, to meet any people coming from Ishpeming area. Driving time is about 1 hour or less, except the Minesota Mine" trip which is about 2 hrs. Once we arrive on site collecting usually lasts several hours, into early afternoon. Proper safety equipment is a MUST on all trips ie: Gloves, safety glasses and or goggles and shield, protective leg and arm clothing as well as sturdy footwear. Hard hats are required at the "Ropes Mill" site. Note: There are a limited number of Hart hats and goggles that can be rented from the club for \$1.00 ea. per day. For insurance purposes, you MUST have goggles or hard hat, or you will be turned away.

July 18, 1999 (Sun): Minesota (copper) Mine (multiple large rock dumps), Ontonagon Co., MI. Minerals that have been found here include; Native Copper & Silver, Calcite, Adularia and Malachite.

August 22, 1999 (Sun): Ropes Gold Mine (rock dumps plus "verde antique" / marble quarry), Marquette Co., MI. Minerals that have been found here include; Pyrite, Chalcopyrite, Tetrahedrite, Galena, Molybdenite, Dolomite, Talc, Pyrrhotite, Calcite, Goethite, Serpentine, Verde Antique - Marble and Native Gold.

September 12, 1999 (Sun): Champion or Taylor Iron Mines (or Black River Pegmatite) Marquette and Baraga Counties, MI (T.B.A. / Finalized on or near the trip date. Trip time to Taylor about 1 ½ hrs.) A variety of minerals would be available depending on the chosen trip but may include; Hematite, Magnetite, Ilmenite, Pyrite, Molybdenite, Schorl Tourmaline, Pyrolusite, Goethite, Muscovite Mica, Fluorite, Feldspar and Quartz.

Don't forget your collecting equipment! I.e. rock picks / hammers / chisels, a metal detector - (NOT necessary but, helpful. Mainly for copper & silver at the "Minesota Mine"), buckets / boxes / backpacks, mineral packing / wrapping materials and hand lens.

October 1999 Fall color tour with Bruce Spike. Details closer to date.



Ropes Mill Crusher Site Field Trip
Part of the crusher.



George Gallus found a rock to
look at.



Audra's looking close for gold.



Don Ruonavaara shows us how
to properly hold a sledgehammer.



Audra's working hard with her pick.

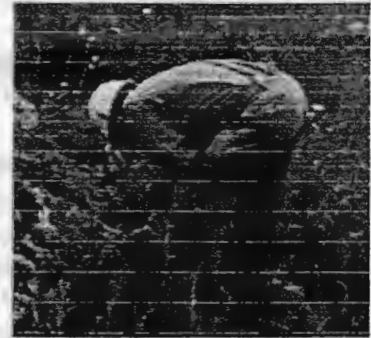


Dan Fountain found one to haul home.

Luke Haara is working hard on the piece he found.



Mike, our guide, even finds time to look for his precious "yellow" stuff.



Les Anderson shows us the proper rockhound bend.

This was a little preview of the fun we had on the field trip. Come join us the next time and see what you can find!

Answers for last month's crossword puzzle.

Across:

1. Sanidine
2. Wad
3. Nephrite
4. Burmite
5. Kidney Ore
6. Hedyphane
7. Tessular
8. Cleveite
9. Neodymium
10. Vug
11. Rhodolite
12. Talc

Down:

1. Pseudomorph
2. Diamonds
3. Pyrite
4. Beekite
5. Ekanite
6. Rhomb
7. Yttrocrite
8. Iron
9. Orsedue
10. Muscovite
11. Tying
12. Eosite

Olive Needs Our Help!!

Olive is looking for more items to put in the egg cartons for the kids. They have been such a hit at the shows, but as we know, everything that is good comes from hard work. Olive has done a lot of the work and needs something from you now. **THE ROCKS!** Carton #1 & #2 are taken care of. Carton #3 & #4 need help. Remember, these specimens can be no bigger than a large egg and we need a minimum of 50 of one kind. Look at the list and see what you can do. If you have something that is not on the list, it will work too.

Carton 1- Copper, Pyrite, Specular Hematite, Magnetite, Limonite, Goethite, Calcite, Gypsum (Satin Spar), Quartz-agate, Quartz-Crystalline, Muscovite & Feldspar, and Garnet in Schist.

Carton 2-Examples of- 4 Igneous rocks: Pumice, Obsidian, Basalt, and Granite; 4 Sedimentary rocks: Sandstone, Clay Concretion, Limestone and Fossil; and 4 metamorphic rocks: Slate, Quartzite, Jaspilite and Kona Dolomite. This fits in with a "geology" unit in grade school.

Carton 3-Galena, Fluorite, Epidote, Flint & Chert (are taken care of) **NEED:** Ankerite, Chalcocite, Petrified wood, Bornite, Graphite, Shale & 25 geodes-small- sawed in half.

Carton 4-12 different types of specimens in quantity of 50. Possibilities: Azurite, Malachite, Siderite, Sodalite, Linarite, Chrysocolla, Verde Antique, etc.

Hot Tips

Silver working hints: Solder in dim light if possible, for then you watch the color of your work as it is being heated. The first visible red shows the work is about 900 degrees. When the work is dull red, the temperature is around 1200 degrees F. A cherry red indicates 1400 degrees F., and silver is molten at 1640 degrees F. So avoid overheating the work. Many bezel has been burned right through.

Via **THE ROCKPILE** How-To-Book 1994

To Clean Fluorite, do not wash in hot water. The luster will vanish and be gone forever.

Via The Petoskey Stone Feb. 1999



Welcome

Welcome to our newest members....

Walter Jr, Dawn, Walter III Aho	104 N. Seass Dr., Gwinn, MI 49841	906-346-5011
Kenneth Croner	8436 Jordan Rd., Grand Blanc, MI 48439	810-636-7972
Ted R. & Joeseeph	235 Baraga Ave., Marquette, MI 49855	906-226-8780
Luke Haara (Jr. Member)	235 Baraga Ave., Marquette, MI 49855	906-226-8780
Thomas Skelding	1780 Deer Lake Rd., Ishpeming, MI 49849	906-485-4625
Lois Spedowski	18490 15 Mile Rd., Big Rapids, MI 49307	616-796-3843

And to our renewing members...

Stephen and Janet Berglund	121 Rexford, Kingsfor, MI 49802	906-774-9184
William and Janet Crook	557 Scott St., Downers Grove, IL 60515	920-748-2633
James DeCaire	Rt. 1, Box 163 Cooper Lake Rd., Ishpeming, MI	906-485-5778
Kathleen DeLisle	9 North Royce, Hancock, MI 49930	906-482-9396
Jerry and Carolyn Droszez	447 Hampshire LN, Crystal Lake, IL 60014	815-459-8498
Dan Fountain	167 E. Buffalo Rd. Negaunee, MI 49866	906-475-5395
Milt and Shar Gere	1621 E. Pratt Rd., DeWitt, MI 48820	517-669-8116
David, Ann, Cori LaChance	1891 M-28E, Marquette, MI 49855	906-249-5108
Debra Manninen	4312 Renas Rd. Gladwin, MI 48624	517-426-2707
Charles Markham	Rt. 1, Box 79A, Alantic Mine, MI 49905	906-482-2217
Gene and George O'Neal	9558 Stinchfield Woods Rd., Pinckney, MI 48169-9404	313-426-3570
Susan and Adam (Jr.) Said	Rt. 1, Box 527, Munising, MI 49862	906-387-3600
Don and Mary Schuder	RR1, Box 624, Calumet, MI 49913	906-337-1062
Winter Address	2319 Sycamore Ln., West Lafayette, IN 47906-1927	765-463-5887
Marian Short	27 Endicott Drive, Howell, MI 48843	517-546-0700
James Slocum	P.O. Box 527, Bayfield, WI 54814	715-779-3308
Sue and Hannah (Jr.) Syrjala	212 E. Johnson St., Ishpeming, MI 49849	906-486-6246
Barbara Tyynismaa	17365 County Rd. 581, Ishpeming, MI 49849	
Ron Wattson	118 W. Washington, Marquette, MI 49855	906-228-5775
Ed and Sandy Yohe	1845 Harbor View Dr., Marquette, MI 49855	906-226-3385

And to our Honorary Members for 1999....

John F. and Anna Koontz	RD #2 Box 132, Saltsburg, PA 15681
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Change of Address...

Jim Quayle	(May-Sept)	2060 County Road PBG, Ishpeming, MI 49849
	(Oct - April)	6101 Ridgewood Dr., Zephyrhills, FL 33541-5207

Rockhounds Dictionary, The Under-the-Bridged Version

Agate	An opening (door) in a fence.
Archaeologist	A person whose career is in ruins.
Barium	What you do with your clothes after you meet a skunk.
Boule	A dish that holds fruit on the table.
Cabochon	A small French taxi.
Coral	A place to keep sea horses.
Crystal	A girl's name.
Crystalline	Her twin sister.
Cube	A square from an angle.
Detour	1. A road opened especially for tourists. 2. a summer road for tourists
Diamond	The hardest some known to man to get back from his old girlfriend.
Dust	What kids substitute for mud when it doesn't rain.
Earthquake	The results of Mother Nature not taking her earth control pills.
Era	A mistake.
Expert	1. ...from ex, former associate, + spurt - a big drip. 2. Someone 50 miles from home.
Faceting	A complex way to ruin a good jewel.
Field trip	1. An impossible trek to an inaccessible place for nonexistent minerals. 2. When you fall down outside.
Filing cabinet	System for losing things alphabetically.
Findings	Stuff you find
Flintknapping	A sleepy stone.
Fortification	1. Two twentyfications. 2. A large gulp of good whiskey.
Fossils	A teenage parent.
Friend	One who can see the star in your sapphire.
Garnet	What you say when a rock drops on your foot.
Gentleman	A man who holds the door open for his wife to carry the rocks in.
Geode	A poem to G (often written in hollow verse).
Geologists	People who have their faults.
Gravel	A h�ammer for starting meetings.
Grinding Wheel	A bearing going out on your old truck.
Igneous	Dumb.
Inclusion	Unwanted third person on date.



The Dictionary

This section will increase your mineral vocabulary. There are many terms that are used in a collector's world that sometimes we hate to ask. There will be some words here that you already know. Hopefully there will be a few that you don't and that you can learn with us.

This month's source: Handbook of Rocks

By: James Furman Kemp, A.B., E.M., 1906

Arkose- A special name for a sandstone rich feldspar fragments, as distinguished from the more common, richly quartzose varieties.

Catogene- sedimentary rocks, whose particles have sunk from above downward.

Conglomerate- consolidated gravel.

Ferrite- microscopic crystals of iron oxide.

Horses- a miner's term for fragments of wall rock included in a vein.

Inclusions- the term is applied to crystals and anhedral of one mineral involved in another; an to fragments of one rock enclosed in another, as when a volcanic flow picks up portions of its conduit.

Micropoikilitic- a textural term suggested by G.H. Williams to describe those minerals that are speckled with microscopic inclusions of other minerals, having no definite relations to each other or to their host. Jour. Of Geology, I., 176, 1893. Poikilitic is often spelled poicilitic or poecilitic.

Oolitic- a textural term for those rocks which consist of small concretions, analogous to the roe of fish, Oolites are calcareous, siliceous and ferruginous.

Parophite- a name given by T. Sterry Hunt, Geol. Surv. Can., 1852, 95, to a rock or mineral similar to dysyntribite. The name means like serpentine.

Trap- a useful field name for any dark, finely crystalline, igneous rock. It is a Swedish name from the occurrence of such rocks in sheets that resemble steps, "trappar."

A Petrified Wood Fact

Many pieces of petrified wood, especially from the northwest, have a center that looks like wood, but with a layer of chalcedony or pumice between the center and the outside. This indicates that the tree green when it was buried in hot ash. The water in green wood evaporated, making the wood shrink. The outside was made into a cast by the heat, so the areas left between the wood and cast were filled with chalcedony, making beautiful pieces of wood.

Via Show-Me Rockhounds, Inc. 11/98 via Glacier Drifter, via T-Town Rockhound



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I welcome any information that you would like to add to the Jaspilite. Please send to the address above or call me. If you choose to call, it is best to contact be between 9:00am and Noon.

(Please note: all information added to the Jaspilite is at the editor's discretion)
The name and Logo are registered and may not be duplicated. All other information in this issue may be duplicated as long as credit is given to the Ishpeming Rock and Mineral Club.

I apologize for the delay this month in getting the Jaspilite out. As most of you, this summer has been filled with weddings, graduations, birthdays and all the normal summer duties. Thank you for your patience and understanding.



**Ishpeming Rock and Mineral Club
P.O. Box 102
Ishpeming, Michigan 49849**



To:
2003
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Baltimore MD 21207