

# THE ROCKFINDER

APRIL							1993
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Joyce Larson, Editor  
 Michiana Gem & Mineral Society  
 144 Spruce Drive  
 Westville, IN 46391



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The MICHIANA GEM AND MINERAL SOCIETY, a non-profit organization, is affiliated with the MIDWEST FEDERATION OF MINERALOGICAL AND GEOLOGICAL SOCIETIES and with the AMERICAN FEDERATION OF MINERALOGICAL SOCIETIES.

REGULAR MEETINGS

Time: 2:00 p.m. EST	Place: Westminster Presbyterian Church
Fourth Sunday of each month	1501 W. Cleveland Road
June - Field Trip Meeting	South Bend, IN
July - No meeting	West of the St. Joseph River
August - Annual Club Picnic	
December - Date to be announced	
Christmas Party	

DUES

Individual	\$ 6.50 per year
Family	10.00 per year
Junior	2.00 per year

ROCKFINDER STAFF

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Staff.....	Bob Heinek/Club Members	

All contributions for publication should be in the hands of the Editor (219-785-4382) by the 10th of each month.

Permission is hereby granted to reprint, at any time, items published in the ROCKFINDER provided due recognition is given.

# THE ROCKFINDER

VOLUME 33  
NUMBER 4

APRIL 1993

PUBLISHED BY:  
MICHIANA GEM & MINERAL SOCIETY

MEETING: April 25, 1993  
Doors Open - 1:30 p.m.  
Meeting at - 2:00 p.m.

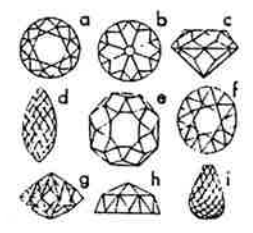
PLACE: Westminster Presbyterian Church  
1301 W. Cleveland Road  
South Bend, Indiana  
West of the St. Joseph River

HOSTS: Gladys Pacholke  
Sister Jeanne  
Sister Georgia

APRIL BIRTHSTONE: "Diamond"

A mineral of great hardness and refractive power, consisting of carbon crystallized in the isometric system under great pressure and temperature. When pure, it is a valuable gem with a beautiful display of prismatic colors, especially when cut.

PROGRAM: It's an AUCTION!  
Bring your treasures to  
Sell - Donate - Trade



Forms of cut diamonds

- a.b.c. Brilliant cut
- d. Marquis cut
- e. Pitt or regent cut
- f. Kohinor cut.
- g. Double rose cut (side view)
- h. Rose cut
- i. Briolette cut.

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HOPING YOU ALL HAD A VERY HAPPY EASTER

-AND -

HAPPY SPECIAL DAYS IN MAY - TO:

- 1 - Addie Niebauer - Birthday
- 1 - Jane Stone - Birthday
- 1 - Chuck & Margè Collins - Annvsy.
- 3 - Gloria & Clayton Merrill - Annvsy.
- 4 - Ken & Betty Stout - Annvsy.
- 4 - Ken Stout - Birthday
- 4 - Jane & Stan Kile - Annvsy.
- 12 - Pam Rubenstein - Borthday
- 13 - Kathy Miller - Birthday
- 22 - Marion Fiege - Birthday
- 22 - Sue Fields - Birthday
- 26 - Joe Fashbaugh - Birthday
- 27 - Alec Rubenstein- Birthday

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COOPERATION

Everybody knows that there are three other "bodies" in every organization: SOMEBODY, ANYBODY, AND NOBODY.

ANYBODY knew there was work for EVERYBODY, but when the leader asked for volunteers, saying "ANYBODY can do it", EVERYBODY thought SOMEBODY would, but NOBODY did. Then SOMEBODY decided that since ANYBODY could, but NOBODY did, then SOMEBODY should.. So he/she volunteered. When EVERYBODY saw SOMEBODY doing what ANYBODY could, but NOBODY did, EVERYBODY gladly lent a hand....and soon it was DONE!!!

(-via The Opal)

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MINUTES ????????

I have checked the mail everyday for minutes of our last meeting to arrive but as of this Friday evening - no mail. I hope they didn't get lost in the mail like Margaret's column did one month. Took two weeks to have one letter delivered about 35 miles. So - I will have to fill in this page as best I can.

\* \* \* \* \*

So I am off and running with a project that is not "so new" of an idea as I would like to think it is, but I am sure we would all find it interesting. I see in many exchange bulletins, clubs writing special articles about their members. In fact the members are writing a biography about themselves, their families, their jobs, how they became interested in this great hobby, and whatever else the member feels would be of interest to the rest of us. I can remember when I first joined our group, I sat back and in my mind tried to figure out what some of our club members did for a livelihood. Take me for instance, would any of you have guessed I was an auto. claims adjuster? I thought Paul Godollei was a teacher or professor. I believe he is an architect - I'm not sure though. So - I'm going to choose the candidates for our first ever - MEMBER PROFILE! Fred and Addie Niebauer - being original members of the Michiana Gem and Mineral Club - our first, May article will be on the two of you, written by the two of you and mailed to me for our very first, original THIS IS "OUR" LIFE article, for MAY. I am sure you both have a lot to tell the rest of us. If you can write a few paragraphs, a column, a page or 2 pages - whatever, I'll print it. Next month I will pick the next member(s) for our MEMBER PROFILE column. Let's give it a try - it will surely give us all a chance to know one another better. I'm counting on you all! ! ! ! ! ! ! ! !

\* \* \* \* \*

I did get my 3 day trip in to Tulsa where I honestly did climb & measure an Oklahoma roof - until the rain came. Learned a lot on that trip.  
Joyce

DO YOU BELONG TO THE TATE FAMILY? No?

Better read on - every club has several - some clubs have all of them. There's..... Dick Tate who tried to run everything. Ro Tate who tries to change everything. Agi Tate who stirs up trouble whenever possible. Irri Tate always helps Agi. Hesi Tate and Vegi Tate who pour cold water on every new idea. And... Devas Tate who always wants to argue - especially about money.

However, most clubs also have: Facili Tate who eagerly helps in everything planned. Felici Tate who keeps everybody happy. Cogi Tate is always thinking about how to make the club better. And.. Medi Tate who is always thinking up new fun things for the club.

(-via Osage Hills Gems)

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DOESN'T THIS SOUND GOOD!

YUM-YUM DESSERT

Using a 9 x 13 pan: Crust: 1 cube butter-softened; 1 c. flour; 1 c. chopped nuts. Mix, press in pan, bake at 325 degrees for 15 minutes. Next layer: 8 oz. cream cheese-soft; 1 c Cool Whip; 1 c. powdered sugar. Beat together and spread over cooled crust. Refrigerate until firm. Next layer: 1 1/2 c. milk; 1 sm. pk. chocolate instant pudding. Spread over cream chees layer. Refrigerate until firm. Next layer: 1 1/2 c. milk; 1 sm. pk. vanilla instant pudding. Spread over chocolate layer. Refrigerate until firm. Spread Cool Whip over top and sprinkle with chopped nuts or shaved chocolate. Refrigerate.

(-via Gem Time from Carol McGovern)

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Check your Lapidary Journals and Rock magazines - there are many shows coming up in the near future - try to get to some of them. A great way to spend the weekend!

MARGARET'S COLUMN:

The months are really going fast, and it won't be long until we will be getting ready for vacations, and the Club's annual Labor Day show. Bob and I are looking forward to a very busy summer, including a class at Wildacres in North Carolina for one week June into July. Then there is the Midwest Fed. Field Trip in Houghton, MI, August 8-15th. The packet for this has arrived, and if you plan to attend, let us know so we can make you a copy. Bob did make a few for those really interested, which we will bring to the April meeting.

Then our show at the Century Center, Friday through Sunday on Labor Day weekend. Start thinking about what you want to do for that show, your displays, chairman of a committee or where you are willing to help. This is the club's show, and it takes many members working to make it a success. Bill has most of the dealers signed up, and as usual, are all A #-1.

Following this is the AFMS Convention in Denver, September 15th through the 19th, which Bob and I, as well as Kathy and Bob Miller, will attend. Being busy is what keeps us going.

Something I would like you to think about...how about going out to a restaurant for our Christmas Party, with the club picking up some of the cost? This way we will avoid the hassel of cooking and cleaning up, as well as not being in the way of the Church members. We can simply go and enjoy the meal! I have not asked the officers, but would like to have the club member's input. The club usually furnishes the meat, rolls and beverages, costing quite a bit. Then you have to cook something, which you pay for. The restaurant I have in mind is a buffet with a large selection of meats, salads, vegetables, beverages and desserts. You are allowed to fill your plate as many times as you wish. Let me know how you feel, I must make reservations as soon as possible. We do have the Church hall for Dec. 5th, which I can cancel.

I will see you at the meeting this month, and our program will be an auction. If you have items you would like to sell, or donate, bring them. The club will keep 10% of the bid and you will get the 90%. Please price your items for the amount you must have. They should all be ROCK RELATED. I imagine you have things that are collecting dust which someone would be thrilled to own. Bring fossils, extra material that can be used for cabs, tools, faceting material, machinery, etc. This will be fun, we haven't had an auction for a long time.

The prices for the MWF Field Trip have been changed to:

*Margaret*

Dormitory housing...Wadsworth Hall...

Room:	5 nights, Monday through Friday	\$80.23 per person
Meals:	3 per day, Monday through Friday & 2 Saturday	57.00 per person

Daily....Breakfast \$3.05 - Lunch \$4.20 - Dinner \$5.40  
Tickets available on daily basis  
Sign up for meals when you register on arrival.

See you April 25th at the meeting. Bring extra money!

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MILE: The smile on your face is the light in the window that tells people that you are home.  
(-via Scribe)

PART OF OUR NEWEST NATIONAL HISTORICAL PARK - THE HISTORIC QUINCY MINE & MINE HOIST BLDG.

Those visiting Michigan's Keweenaw Peninsula for the August 8-15, 1993 MWF Field Trip Convention, or at any other time, should plan to tour the world famous Quincy Mine and Steam Hoist Building just north of Hancock, Michigan.

The Quincy mine, known as "Old Reliable," was opened in 1856. By the 1920's it had yielded one billion pounds of copper from the Pewabic amygdaloid lode. At that time, the Quincy Mining Company built the "largest ever steam-powered hoist," which was designed to haul ten tons of ore at a speed of 36 mph from a depth of almost two miles. The hoist drum held 13,000 feet of 1-5/8 inch cable. The hoist operated during the 1920's and early 1930's until worldwide competition made the mile-deep Keweenaw copper too expensive to extract.

The Hoist Building was originally built in 1894 and has for many years served as an unimproved exhibit area for the larger mining artifacts at the Quincy Mine. Recently a new roof was installed and a concrete floor replaced the original dirt surface. A general expansion and improvement of the facilities inside the building followed; these facilities include offices, storage areas, meeting rooms, restrooms, a gift shop and exhibit areas. All renovation has faithfully maintained the overall character of the original building. The Quincy Mine is an important part of the recently established Keweenaw National Historical Park.

The tour includes the Hoist Building with its exhibits and mining artifacts, the adjoining headframe marking the entrance to the mineshaft and an informative six-minute newsreel-type film showing the mine workers as they go down into the mine.

The Quincy Mine is located one mile north of Hancock on U.S. 41 - at the "top of the hill". It is open for tours during the summer season and an entrance fee is charged. It is well worth a visit for anyone interested in the history of the copper mining area.

(-via Joyce Hanschu, MWF Education Chairman; MWF Newsletter 9/92 & The Glacial Drifter)

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GOOD FOR ANOTHER LAUGH!! A truck driver parked his semi at a roadside cafe, went in, took off his jacket, sat down and ordered a hamburger, a cup of coffee, and a piece of pie. The waitress got it ready and put it before him. In walked three motorcyclists in black leather jackets, heavy beards, and generally threatening. One grabbed the hamburger, another the piece of pie and the third the cup of coffee. The truck driver said not a word, got up, put his jacket on, paid the bill, and left the cafe. The motorcyclists looked at the waitress and said, "Isn't much of a man, is he?" The waitress replied, "He isn't much of a driver either, he just ran over three motorcycles."

(-via The Glacial Drifter and Pegmatite 3/93)

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TUCSON'S "GRANDDADDY" SAGUARO DYING: Lapidary Journal reports that Tucson's Granddaddy giant cactus at the Saguaro National Monument East, has lived twice as long as the average saguaro lives. At about 300 years old, this oldest, biggest, and most thickly limbed saguaro in the United States is not likely, according to the New York Times, "to live more than a few weeks or months" into 1993. It is rotting away of bacterial necrosis, a secondary infection that often besets an elderly cactus already weakened by injury from frost, animals or insects. Given the harshness of the desert environment, most saguaros never make it past the seedling stage. Those that do survive grow with extraordinary slowness. At five years, a saguaro stands barely half an inch tall; by 20, it's hardly a foot; at about 30, it becomes sexually mature and blooms. The spiny central stalk does not begin sprouting its first arm until age 65, but from then on, given enough rainfall, new branches grow seemingly at any point on the columa and in any directions. (-via M.M.S. Conglomerate)

DID YOU KNOW?

Few Michigan residents realize that the Northern Peninsula came to the U.S. through the perspicacity of Benjamin Franklin. The treaty of peace of November 1783, closing the Revolutionary War, made Michigan a part of the U.S. But, in the final final treaty of September 1783, the boundary line was to have run through the middle of Lakes Ontario and Erie, and Huron and their linking waterways. Franklin, a member of the Boundary Commission, had heard of the mineral deposits of Lake Superior and shifted his pencil to mark a line somewhat north of the center line of Lake Superior. Thus, the Upper Peninsula and Isle Royale ended up as parts of the United States rather than Canada.

(-via Fulton County Rockhounds)

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SMITHSONIAN RED DIAMOND....Sparkling in its bulletproof glass case at the National Museum of Natural History is a red diamond. One of five known red diamonds in the world. The round brilliant cut 5.08 carat diamond was a gift to the nation from the late Boston gem dealer, S. Sydney DeYoung. The diamond is estimated to be worth several million dollars.

John Sampson White, museum curator, was shocked last October when the diamond arrived on his desk in a small cardboard box. It had been shipped via registered mail uninsured from DeYoung's estate in Boston. The postage cost \$11.58. The box arrived with a yellow invoice describing the contents simply "one large red diamond."

(-via The Glacial Drifter)

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WHAT ARE LIMB CASTS? Limb casts are distinguished from petrified wood by the complete absence of any structural appearances. There are no cells or growth rings. It has been completely replaced by agate or chalcedony, generally keeping the form of the limb of a tree.

(-via Lodestar, 3/93)

BITS AND PIECES

Happiness can't be measured by ones wealth. For instance a man with \$10,000 may not be a bit happier than a man with \$9,000,000.

Happiness is a perfume you cannot pour on others without getting a few drops on yourself.

To err is human, but when the eraser wears out before the pencil, you're over doing it.

If you must talk about your troubles don't bore your friends with them... tell them to your enemies who will be delighted to hear about them.

Nothing is all wrong-even a clock that has stopped is right twice a day.

The weather bureau is a non-prophet agency.

There's one good thing about a world crisis - we learn a lot of geography.

Don't tell me that worry doesn't do any good. I know better because the things I worry about don't happen.

Ulcers are what you get from mountain climbing over molehills.

When you stretch the truth, people can usually see through it.

(-via Fulton County Rockhounds)

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In some countries the natives have the strange custom of beating the ground with hatchet-like clubs and occasionally uttering wild, bloodcurdling cries. Anthropologists call this a form of self-expression. In our society, we call it Rock-Hunting.

(-via Beehive Buzzer, 3/93)



WHAT ABOUT COPPER?

Those pretty blue and green stains you often see on rock outcrops when on a field trip are known as "copper bloom", and they can be a guide to finding copper and its associated minerals. Copper is usually found in rather distorted, perhaps rounded, and complex crystals. The predominant crystal forms are cubes. Dodecahedrons and octahedrons, however, sometimes are hackly masses which are equally interesting, for there are unusual shapes--sometimes a man laughing, a dog or any other identification you might choose to make.

Everyone is familiar with the lovely color of pure copper; in fact, it is often used as an identifying term for associated colors. It can have a metallic luster, and while the hardness is only 2.5-3, it is very heavy, with a gravity of 8.9 and, like silver and gold, is malleable and ductile. Copper will lose the lovely "copper-red" color when exposed to the air, in much the same way a copper penny dulls after a time, but you can always clean it and restore the beauty.

Copper is extremely important today as it has been since the earliest recorded history. Because of its excellence as an electrical conductor, it is used in much of the electrical equipment so prevalent today. Can you imagine what it would be like not to have copper available for the power lines which bring the electricity into your homes from the generation source? How much we take for granted!

When copper is alloyed with zinc you have brass, and for bronze you combine copper and tin. Much of the popular magnesium metal is alloyed with small amounts of copper because it makes it more desirable. There are really too many uses for copper to attempt to name them all, but it can be fun for a Trivial Pursuit sort of game to see just how many you can name.

The most famous area for large amounts of native copper is the Keweenaw Peninsula in Michigan. It has been mined for over a hundred years along the shores of Lake Superior. One huge mass was found which weighed about 420 tons. When copper is enclosed in calcite, it makes the calcite take on a beautiful red color. Native copper can also be found in shale in the Michigan area.

"Copper glance", calcocite, is a valuable copper ore, and when pure contains about 80% copper. However, when processed on a large scale, a tremendous amount of rock must be mined to obtain even a pound of copper.

Most everyone has heard of peacock copper, but how about purple copper ore or variegated copper ore? All of these names describe Bornite, which is named for the Austrian mineralogist Von Born. This is easily identified by the bright iridescence, that often brings exclamations of pleasure at seeing such beauty.

If you haven't seen a Half-Breed, you should! True, some of them are more like nuggets, but when you see a truly lovely Half-Breed, you will see copper crystals combined with silver crystals, and they are something to behold. Even those who claim to only like cutting material will appreciate such beauty, and perhaps even want to decorate a shelf or table with a specimen.

Copper is widespread, and is always associated with various copper sulfides, which can be interesting in themselves.

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(-via The Glacial Drifter)

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WHAT FOSSILS SHOULD I COLLECT? - by Paul Godollei, club member

Beginning collectors have a tendency to pick up every fossil that they find, but this soon gives way to only collecting specimens in good condition, or that are nice looking, or have had more publicity, such as trilobites.

Eventually you must decide what you want to collect, what you want to keep, and what you want to trade or give away. Finding your own specimens is the most satisfying, but specimens traded or purchased or received as gifts are also rewarding.

If you travel a lot, you have an opportunity to collect specimens from different areas, but most of us are limited and must look for fossils closer to home. Fortunately, there are fossils in every state, and Indiana, Michigan, Ohio, Kentucky and Illinois have excellent sites to collect fossils.

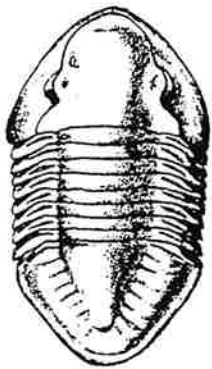
You may wish to specialize, and only collect fossils from one area. Or you may decide to only collect one type of fossil, such as corals, plant fossils, bryozoans, or brachiopods, or trilobites. Stay clear of dinosaur bones though, there aren't any in the midwest!

My collection is mostly from Indiana and Ohio, and I have read all the publications I could find on the fossils of this area, their location and descriptions. I have collected quite a few brachiopods, pelecypods, bryozoans, gastropods, trilobites, cephalopods, and plant fossils with only a few crinoids, blastoids, sea urchins and echinoids. From out of state there was an opportunity to collect fossils at the Calvert cliffs in Maryland, and plant fossils in Illinois.

Some collectors have specialized in collecting only fossils from one geological time period, such as the Ordovician age, or the Devonian. Whatever you decide to do, find out all you can at shows, museums, exhibits, from other collectors and from educational films and slides. Go to the library and take out books on fossils and collecting, and write to state geological surveys for a list of their publications.

Whatever you decide in the end will be satisfying and rewarding. Good luck!

BIBLIOGRAPHY: Shimer & Shrock - "Index Fossils of North America."  
"The Audubon Society Field Guide to North American Fossils" by Ida Thompson.  
Midwest Fossils by Dale Douglas



TRILOBITES



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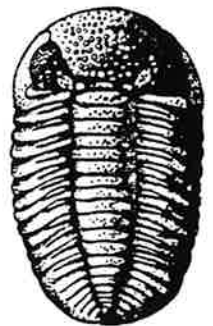


23

Flexicalymene 1x



24



Phacops 2/3x

Isotelus 1/3x

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TIP TOP TIPS

Add a couple of pouches of Knox Gelatin during each grit change when tumbling. This keeps the grit in suspension and works better on the cutting process. In the final polish the gelatin acts as a cushion and prevents scratching on delicate stones.

Use a small squeeze bottle (like Sinex) to carry around in your back-pack or pocket, filled with water, to check out a stone you may find. They are small and light and you need only a drop or two.

(-via Breccia)

WHAT FUELS WE MORTALS BE

Now coal and gas and oil are scarce,  
And worst of all, they say,  
A crisis in electric power  
Is due to come our way.  
So what can mortals use for fuel  
To solve this awful mess?  
If I may be so bold I'll make  
One educated guess.

When we start opening cans by hand,  
Don sweaters when it's cool,  
Hang clothes back out upon the line,  
And walk or jog to school;  
When we can shave without a plug,  
Wash dishes in the sink,  
And read a book, not watch the tube,  
Perhaps we'll stop and think:  
One oft-forgotten source of power  
Has not yet ceased to be---  
OLD HAT? YOU BET! But useful yet--  
RAW HUMAN ENERGY.

(by Barbara Overton Christie from  
Hells Canyon Club News & Breccia

\* \* \* \* \*

DINOSAUR CANCER: Was the diagnosis of  
BYU paleontologist Ken Stadtman. The  
patient was an 140,000,000 year old  
allosaurus found in western Colorado.  
The allosaurus had chondrosarcoma, a  
cancerous bone disease. The cauliflower-  
like growth on a limb may have caused  
the animal's death.

(-via Osage Hills Gems)

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A WISH

I wish I was a little rock  
A-settin' on a hill,  
I wouldn't do a single thing  
But just a-settin' still!

I wouldn't eat, I wouldn't drink  
I wouldn't even warsh--  
But set and set a thousand years  
And rest myself, b'garsh!

(-via The Rock-A-Teer)

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HOW TO STAY YOUNG FOREVER

Youth is not a time of life - it is a  
state of mind. Nobody grows old by  
merely living a number of years; peo-  
ple grow old only by deserting their  
ideals. Years wrinkle the skin, but  
to give up enthusiasm wrinkles the soul.  
Worry, doubt, self-distrust, fear and  
despair...these are the long, long years  
that bow the head and turn the growing  
spirit back to dust.

Whether seventy or sixteen, there is in  
every being's heart the love of wonder,  
the sweet amazement of the stars and  
the starlike things and thoughts, the  
undaunted challenge of events, the  
unfailing childlike appetite for what  
next, and the joy and the game of life.

You are as young as your faith, as old  
as your doubt; as young as your self-  
confidence, as old as your fear; as  
young as your hope, as old as your despair.

(-via The Petrified Digest)

\* \* \* \* \*

WHEN WE WERE YOUNG

When I was young, my shoes were red  
And I could kick as high as my head.  
When I got older, my shoes were blue  
And I could dance the whole night thru.  
Now that I am older, my shoes are black,  
I can't even walk to the corner & back.  
"Old age is golden", I've heard it said,  
But sometimes I doubt it when going  
to bed.

My eyes on the table, my teeth in a cup,  
My ears in a drawer till its time to  
get up.  
E'er sleep shuts my eyes, I say to myself,  
"Is there anything else I should put  
on the shelf?"  
How do I know that my youth is all spent?  
Well, my "get up and go" has "got up  
and went".  
But in spite of it all, I can still grin  
When I think of where my "Get up"  
has been.

(-via Montana Council Reported and  
The Rock-A-Teer)

SEPTARIAN COUSINS

Septaria means only one thing to West Michigan rockhounds-that is the "Ironstone" concretions which are collected in the area just south of Holland, Michigan.

There are many types of septaria. The stone is not a geode, although it may contain many of the same minerals as the well-known geodes of Indiana and Missouri.

The one characteristic of septaria that enables identification is the presence of "avenues of entry", showing the path that the mineral took into the nodule. They enter the nodule like the spokes of a wheel, going from the rim to the hub. The common filling in the West Michigan septaria is calcite. Many contain a rich mixture of fossils. (The author found a pyritized ammonite about eight inches across, wrapped in and around a septarian nodule, and another was found which contained a pyritized snail.)

Septaria from some areas have distinctive markings, that have led rockhounds to call them turtle stones. In Southern Illinois, some septaria have been found containing fluorite, sphalerite, witherite, and sometimes galena. The Utah type has a different shape, and may be filled with agate. (The Utah types we are familiar with are almost always filled with calcite in dark brown and amber colors. Editor) The thunder Egg of Oregon is a septaria. This interesting cousin is a silicified rhyolite rock, with an inner core of chalcedony, with a banded or irregular variegated appearance.

(-via Joe Moran, The Rock Box and Rock Pickings)

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HINTS - BITS & PIECES

One way to clean quartz and amethyst crystals is to cover them with fresh vinegar to remove carbonates such as calcite, barite, and lime. Repeat as

Now that Spring has finally come, here's an outline of a garden you can cultivate for a successful life:

Plant as follows:

4 Rows of Peas: Perseverance, Personality  
Promptness, Preparation

4 Rows of Squash: Squash Gossip, Criticism  
Indifference, Negative  
Thinking

4 Rows of Lettuce: Let us - Obey rules and  
regulations  
-Be true to our own  
obligations  
-Be faithful to duty  
-Love one another

4 Rows of Turnips: Turn up for meetings  
Turn up with a smile  
Turn up with new ideas  
Turn up with determination.

(-via Crystal Cluster 4/93)

\*\*\*\*\*

HINTS, continued.....

necessary; wash well; and place crystals in washing type ammonia for 8 to 12 hours. Remove, rinse well, and wipe dry.

\*\*\*\*\*

Algae and lichen may be removed from specimens by soaking in a solution of ammonia and water. Stains on quartz can be removed with Rite Rust Remover. In a well ventilated area, dissolve in boiling water, then soak crystals several hours.

(-via Rock Rustler News)

ANOTHER USE FOR BAKING SODA: Most of us, when traveling, keep a special bag or other container for dirty clothes. Sprinkle some baking soda in this bag, it will not only keep the clothes from smelling musty but they will wash easier when you get home or to a laundromat. You will find also that you don't have to wash the bag as often to keep it from smelling musty.

(-via The Southwest Gem)

# ROCK SWAP

# CRACKERBARREL

SATURDAY AUGUST 7, 9:00 a.m. to 5:00 p.m.

Set up your own table or swap from the trunk of your car. Bring your own chairs. Rest rooms located on site: Eating places nearby.

\*\*\* NOTICE \*\*\*

\$5.00 PER 10 FOOT SPACE FOR ALL WHO SELL OR SWAP

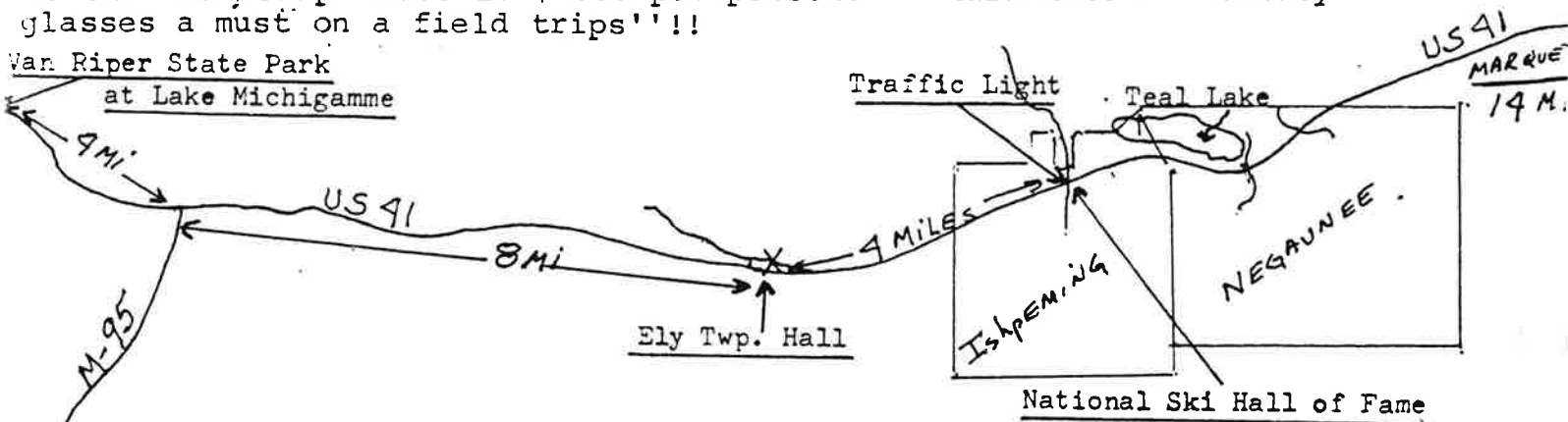
SATURDAY AUGUST 7, 7:00 p.m.

Exchange ideas ... ask questions ... meet fellow rockhounds. Crackerbarrel will be held indoors. Speaker to be announced at a later date. Drawing for raffle prizes at 9:00 p.m. - Refreshments served.

## FIELD TRIP

FRIDAY, AUGUST 6, to several iron mines (OHIO, CHAMPION ---) for MICROMOUNT SPECIMENS, - MEET at the MARQUETTE COUNTY COURT HOUSE at 9 a.m. SUNDAY, AUGUST 8th to LINDBERG'S QUARRY to collect KONA DOLOMITE, starting from the MARQUETTE TOURIST PARK at 1:00 p.m. (or meet at the quarry at 1:30 p.m.). sign up for sundays field trip at the rock swap- cost is \$2.00 per person. 'Hard hats and safety glasses a must on a field trips'!!

Van Riper State Park at Lake Michigamme



\*\* Campsites available at Marquette Tourist Park and Van Riper State Park

\*\* Motels available in Marquette and Ishpeming

\*\* Pets MUST be on leash or confined to owner's quarters at Swap site

\*\* Variety of restaurants available - come-as-you-are to fine dining

\*\* Marquette Tourist Park- County Road 550 Ph. 906-228-0465

For further information write to

Van Riper State Park  
P.O. Box 66  
Champion, MI 49814  
Telephone: (906) 339-4461

ISHPEMING ROCK & MINERAL CLUB, INC.

P.O. Box 102  
Ishpeming, Mi. 49849

DAVE OLSEN PRESIDENT  
909 W. MAGNETIC  
MARQUETTE, MI 49855  
PHONE 906-228-9829

BRUCE SPIKE, Treasurer  
197 Midway Drive  
Negaunee, Mi. 49866

Mrs. DAWNE SMAIL, Secretary  
100 Marble R # 2  
Ishpeming, Mi. 49849

ONLY 100 MILES FROM THE "MWF" FIELD TRIP

Telephone Number Area Code 906	Address
226-2314	BAVARIAN INN
2782 US-41 West	
225-1305	BEST WESTERN EDGEWATER
2050 US-41 South	
228-7538	BIRCHMONT MOTEL
2090 US-41 South	
228-7494	BRENTWOOD MOTOR INN
US-41 West	
228-2280	CEDAR MOTOR INN
2523 US-41 West	
225-1393	DAYS INN
2403 US-41 West	
225-5000	ECONO-HOST
1101 US-41 West	
225-1351	HOLIDAY INN
1951 US-41 West	
228-7430	IMPERIAL MOTEL
US-41 West	
228-4004	LAMPLIGHTER
US-41 West	
249-1712	MARQUETTE MOTOR LODGE
1010 M-28 East	
249-1404	PARKWAY MOTEL
5057 US-41 South	
228-6000	RAMADA INN
412 W. Washington	
228-8100	SUPER 8
US-41 at McClellan	
226-2549	TERRACE MOTEL
2672 US-41 West	
226-7516	TIROLER HOF
2672 US-41 West	
228-6710	VENTURE MOTEL
926 W. Washington St.	
226-9400 1-800-808-888	VILLAGE INN
1301 North Third St.	
346-7901	GWINN 49841
346-7901	MODEL TOWNE INN
P.O. Box 955, 190 E. M-35	
346-9815	RED HORSE RANCH
Big Shag Lake	
	NEGAUNEE 49866
475-9779	DUCK STOP
US-41 East	
475-7165	QUARTZ MOUNTAIN INN
791 US-41 East	
475-6608	STARLIGHT MOTEL
349 East US-41, Marquette	
	ISHPEMING 49849
485-6345	COUNTRY HOSPITALITY INN
850 US-41 West	
485-5537	TRIANGLE MOTEL
US-41 West	
485-1044	WONDERLAND MOTEL
US-41	
	CHAMPION 49814 US-41 - M-95
	CROSS-CUT CAFE & INN