

Dec 74

T H E



J A S P I L I T E

Affiliated with the Midwest Federation
of Mineralogical and Geological Societies

OFFICIAL PUBLICATION
of the
ISHPEMING ROCK AND MINERAL CLUB, INC.

Published quarterly

OFFICERS - 1974

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Publicity	Pat Elie	Gwinn
Hostess Chairman	Christine Miljour	Gwinn
JASPILITE editors	Laurence and Olive Sain	Marquette

Deadlines: March 1, June 1, Sept.1, Dec. 1.

Meetings: 3rd Sunday of month; 2 P.M., Bothwell Middle School, Marquette.

MEMBERSHIP: The Ishpeming Rock and Mineral Club, inc. is open to anyone interested in the Earth Sciences.

Initiation fee	\$1.50
Husband and wife annual dues	3.00
Adult annual dues	2.00
Junior annual dues	1.00

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OUR PURPOSE

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.

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Fellow Rockhounds:

By now, most of us have put away our old clothes, shovels, hammers, etc. and have started to identify and label those specimens we have accumulated from our summer excursions. We can look back to the good times (overlooking those cut hands, sore backs from trying to carry too much at one time, forgotten tools, no paper to label with or wrap up that tremendous find) of the past year. We can look back on the people we have met, the areas we explored, the finds that were made, and the promise that we made to return again. They are all filed with prior year's memories to be recalled when we have someone who is willing to listen to our trips.

The last two meetings at Bothwell Middle School have offered excellent facilities for the club; but the turnout has not been up to expectations. I feel we as members can set aside one afternoon a month to attend a short business meeting and then enjoy a good program on some aspect of rockhounding. Those who have attended have shared their experiences with others attending. The bragging table has been greatly enhanced with specimens from all over the world and are available for close inspection by all. As it looks now, we have the use of the school for the remainder of this year and possibly all of next year. Please make it a point to mark your calendar now with the future meeting dates-- 3rd Sunday of each month.

At the last meeting, the club went on record as wanting to host a swap again this coming summer. It would be patterned after the one held this past summer. The club is also considering hosting the U.P. Gem and Mineral Show in 1976.

By the time you receive this Jaspilite, the Christmas party will be over and a new group of officers will have been elected. I wish Frazier Tubbs, our new president, and his fellow officers all the success in this year.

I would like to thank the Christmas party committees for a job well done. Luella Reidy and the Frazier Tubbs for arrangements for the dinner put on by the women of St. John's in Ishpeming; the meal was delicious and plentiful! Vern Miljour took care of the mailing cards, Frances Hodgins provided centerpieces, Pat Elie and her group of juniors made the table favors, The Tubbs were in charge of a rock identification game (specimens from the summers club rock trips), and Luella provided a decorated Christmas tree. Frazier Tubbs was in charge of the slide program on the summer activities; he had assistance from Laurence Sain, Vernon Miljour and Arnold Mulzer.

It just does not seem possible that two years have gone by; but, when you are working on something you enjoy and have help as I have had, the task is not just another task--it takes on a very special meaning. I thank all of you -- my fellow officers, committee chairmen and club members -- for the magnificent help you have given me the past two years. It all adds up to a very memorable period of time for me.

Your President,

Ernie Johnson

NOTES..from the Secretary's Minutes

President Ernest Johnson thanked all the members who worked on the Rock Swap and helped to make it the success it was. There were 124 persons registered from 8 different states. The Cracker Barrel on Saturday evening and the field trips on Sunday were also successful and enjoyed by all who participated in them. One letter was received from a member of the Valley Rock & Mineral Club which suggested that on future field trips members cars be marked to make it easier to follow them. The secretary was requested to write a letter of thanks to Ron Haviland, Director of Recreation for Marquette thanking him for the use of the City Tourist Park for the Swap.

At the Markerts request the \$72.00 collected for the Kona field trip on August 18th will be given to the Federation Scholarship Fund along with the proceeds from the auction in February.

Marian Markert read letters from the Midwest and American Federation Scholarship Fund complimenting this club for attaining the 500% goal. She also displayed the plaque awarded to the club.

Ray Anderson had a display of copper in one of the Bothwell Middle School cases and it is hoped other members will put displays in these cases. The cases are locked and there is no security problem. Contact Ernest Johnson or Mr. Summers, at the school and tell them when you could put in a display.

The Board investigated the possible purchase of one of the Tilden Mine portable barracks for use as a club house. Bob Markert will make the initial contact. Carl Gutman and Frazier Tubbs will assist.

Laurence Sain has information about the Northern Prospectors' Association and membership blanks. Interested persons can contact him.

The Jaspilite Editors asked members to write about their rock hunting experiences for the Jaspilite.

The Board decided to have the Christmas party Dec. 15th at 4 P.M. at the St. John's Catholic Church in Ishpeming. A turkey dinner with salad bar will be served for \$3.50 per person. There will be an exchange of gifts not exceeding \$1.00 and having something to do with the rock hobby. The program will include slides of summer field trips and club activities.

Laurence Sain was appointed as chairman of the nominating committee which will draw up a slate of prospective officers for the November meeting. Election will be held at the December meeting.

The club received a letter from the Federal Bureau of Mines telling about their liaison office in Lansing as well as the Mining Enforcement & Administration office. They offered assistance whenever needed.

Club members have an opportunity to put their names in the 1975 Rock-hounds' Directory. Addresses and particular interest in the rock hobby are also concluded. For further information contact Dorothy Tubbs.

.....next page..

.....from the Secretary's minutes..

Ray Anderson was appointed chairman of the Auditing Committee and will select his own committee.

The secretary was authorized to purchase a storage file for the secretary's records.

Three library books are still out and Vern Miljour asked that they be returned as soon as possible.

Applications for membership were received from Jill Malin (Junior member) and John Argeropoulos. They were voted into club membership. Money paid for their dues will include 1975 dues as well as the remainder of 1974.

The following recommendations of the Board were approved at the Nov. 10 meeting:

1. That this club support the Stonehead Club at White Pine as host club for the 1975 U. P. Gem and Mineral Show and help them with displays and attendance at the SHOW.
2. That the Ishpeming Rock and Mineral Club host the 1976 U. P. Gem and Mineral Show. (General chairman to be appointed in 1975.)

The club voted to have a Rock Swap in the summer of 1975 on a date not to conflict with the U.P. Show or Crystal Falls Swap,

.....Dorothy Tubbs, Secretary

REPORT FROM THE ASSISTANT STATE DIRECTOR...Frazier Tubbs

Your attention is called to the article titled "A New Solution to an Old Problem" in the November Midwest Newsletter included in this Jaspilite. It was written by June Zeitner and explains the reason for organizing the new Michigan Geology and Gemcraft Society. It will not replace the Midwest Federation in Michigan but will supplement the Federation.

If you would like to join this worth-while organization after reading the article, I have membership blanks. Dues are \$5.00 per year for an individual membership. There are no family memberships.

I also have tickets for the raffle which is the MGAGS first money raising project. The cost is five tickets for \$1.00. 25% of the proceeds will go to the Negaunee Mining Museum. 20% of the money from the club's ticket sale will stay in our club treasury. So when you buy raffle tickets you will help our club and Mr. Matthews' museum as well as the new Michigan Geology and Gemcraft Society.

Be sure to read the other Midwest Newsletters. The December one notes that General Mills is discontinuing the coupon program and the January one names new appointments to offices--our new state director is Mrs. Arlene Buehler replacing Leonard (Bud) Nicholls.

According to the American Federation Newsletter the "5 cent a member dues increase becomes effective January 1, 1976. This is a change from the former 10¢ to 15¢ per member in 1976.

Rockin' Round



I.R. & M.C.

with Edith Anderson

We hope you all had a very Merry Christmas and will have a Happy, Prosperous New Year. Looking back we think our club has had a very full and active year gaining all the way in fun and friendship and getting a better knowledge of our hobby. Our field trips were super, well attended and going to new places to collect specimens gave us something very worthwhile.

Our members did a lot of traveling to far places and brought back many rocks for the bragging table. Boerups and LaChances brought large agates and petrified wood from Oregon, Bemis had agatized wood from Arizona and Colorado, Bell did some opal mining at Spencer, Idaho and brought back some beautiful specimens, Miljour had a collection of quartz and fluorite from Arkansas, Tubbs had Kingston lode and an excellent halfbreed from the Keweenaw peninsula and Maynard had a specimen of rock something like a brown dolomite that had been found at the Tilden Mine. There were many more but so many people standing around the table admiring the specimens that I couldn't get all the information.

We are meeting at the Bothwell Middle School this year. Our October program was making cabs on the equipment brought by members of the club. It was a busy afternoon for those learning to use the equipment and the helpers. The Juniors were proud of their work and really produced some good cabs. Hope more of these meetings are coming up.

Carl Gutman presented an interesting slide program on "Micromounting" at the November meeting. Miniature crystals seen through the eye of a microscope are like entering fairyland; they are exquisite! There is much to be said for this aspect of the hobby.

White Pine has organized; they are the Stonehead Lapidary and Mineral Club. The ancient stonehead carving found by one of the members near Lake Gogebic may have suggested the club name. This new club has agreed to put on the 1975 U.P. Gem and Mineral Show, July 11-13.

.....next page...

.....Rockin' 'round.....

The Ishpeming Rock and Mineral Club will have the 1976 U.P. Gem and Mineral Show; this will be the Bicentennial celebration.

Our 1974 Outdoor Swap was such a success and so much fun that we will repeat the event in 1975. Begin planning early to get your swapping rocks ready to exchange with visitors. You will meet some wonderful people besides learning so much more about the hobby.

The Jenkins granddaughter and Betty Marra of Ishpeming were our guests at the November meeting.

Jill Malin was welcomed as a new junior member and John Argeropulous was welcomed back into the club. Hope to see you at all the meetings!

Bob and Mary Schenk were in Marquette recently. They said they wouldn't be at the Christmas party as they were leaving for Milwaukee and New Jersey to be with their family.

Rufus and Laura Maynard celebrated their sixtieth wedding anniversary in December. Our good wishes and congratulations are sent to you from the club. Hope you have many more anniversaries to celebrate!

Martin Koivula was honored by the C.C.I. Mining Co. for 25 years service with the company.

Bob and Marian Markert have a new grandson, Jeremy, born to the Dudley Markerts of Fairfax, Virginia, November 29.

Joe and Eileen Dunham also have a new granddaughter, Amber Dawn, born to the Thomas Dunhams on December 7. She has the distinction of being the first girl born into the family of Dunhams for fifty years.

Baraga County Gem and Lapidary Club has joined the Midwest Federation. Bernard D. Brockett of Aura Road, L'Anse is the president. We are glad to have this club join the other Michigan clubs.

Remember our February meeting is our annual "Silent Auction" with the proceeds going to the American Federation Scholarship Fund. If everyone donates a few of the goodies gathered this summer; it should be an interesting auction!

The 1975 Midwest Federation Convention will be held the first week of October in Detroit. This is your chance to plan to attend a Midwest show in your own state. Part of Canada will be joining with Detroit to host the show.

ATTENTION!!!! Your 1975 club dues are payable as of January 1. Pay them at the January meeting or send them to the club treasurer for 1975.

Arnold Mulzer
322 Rock St.
Marquette, Michigan 49855

To have an accurate directory for mailing and telephoning---give the treasurer your name, address or addresses and telephone number!

ATTENTION!

ATTENTION!

ATTENTION!

ATTENTION! ATTENTION!

A CANADIAN TRIP IN '74

The Andersons and Sains left home about 10:30 A.M. July 1, 1974 and headed east toward Sault Ste. Marie and Canada. The Hodgins were to follow a few days later and meet us at Cobalt, Ontario. We crossed the International Bridge at the Sault. The first stop in Canada was the Information Center at Sault, Ontario.

Leaving the Sault we headed east on Trans-Canada highway 17. We stopped at Bruce Mines for gas which was 69.9 ¢ per imperial gallon. We expected to camp at Chute's provincial park but as we couldn't go in to see what it looked like we drove on and stopped at a trailer and motel park right on the highway near Webbwood. We had a very enjoyable Frenchman for a host. The park was clean, neat and quiet with all hookups.

We were up and away by 9 A.M. and drove east to highway 68 which goes south through Espanola and on to Manitoulin Island. This is beautiful, rugged country with many unusual and varied rock cuts along the highway. We turned around at Little Current and headed back. We did stop at a couple of rock cuts, one to look for fossils in the limestone and one with quartz veins containing pyrite. The road shoulders are very narrow and it is difficult to find a place to pull off with a trailer. We stopped for lunch in a nice park near Espanola. We planned on going north to Azilda but missed highway 144 in Sudbury and drove on through Copper Cliff and Sudbury. This is desolate looking country, almost everything is coated black with vegetation either stunted or dead. We were told that this was due to the fumes from the nickel smelters. Traces of this stunting could be seen many, many miles from Sudbury. As we drove on to North Bay we had beautiful views of Lake Nipissing to the south of us. We camped at the municipal park in North Bay; lots of Green Bay flies at the park. Buildings and streets were practically coated with the flies to the extent that workers were busy the next morning hosing and brushing them off the buildings.

In leaving North Bay we had some difficulty in finding highway 11 to head north. We stopped at a rock cut and found a few specimens of quartz and pyrite and then where a pipeline went through much rock we picked specimens which we think contain nickel mixed with pyrite. We drove on through Cobalt to the outskirts of Haileyberg where we were to await the arrival of the Hodgins at the Blue Top Motel and Trailer Park.

After lunch we were off to explore and seek information about the area. We stopped in at the museum in Cobalt. The lady in charge was most hospitable and informed us that they closed at 5 P.M. and that we wouldn't have time to see everything before closing so we agreed to come back the next day. We then visited a local rock and jewelry shop where we purchased a few specimens, saw many others and received much information about the area. The specimens we purchased were reasonably priced. They also had beautiful silver specimens on display. We were informed that just across the river more than 100 silver mines had been in operation at one time. We drove across the river and investigated one of the mines and saw many others. Wherever there had been a vein of quartz, it had been mined out leaving various sized and shaped crevasses. Some mining was also done from shafts. One could see many headframes from any one

.....Canadian trip.....

location. Ray found some drill cores at the mine near one of the head frames. Hopefully they contain cobalt and maybe a little silver.

July 4th, we went back to the museum, a wonderful place to see. Everything was interesting; beautiful, huge silver and cobalt specimens and everything used in the mines as well as the Old Prospector's Hall of Fame. It was all very interesting and informative. Pictures of the town before and after the big fire in the heyday of mining occupied many walls; surveyors maps showing the plots for mines made the point that there were a fantastic number of mines and some occupying very little area. The Hodgins were parked and waiting for us when we returned to the trailer park.

In the afternoon we headed back to the silver mines in Cobalt. We again stopped at the Silver Rock Shop and viewed some beautiful specimens of gold that the proprietor had acquired that day. Needless to say their value was out of our financial range. We then worked the waste piles of two silver mines and found some interesting specimens. Then it was back to town for fishing licenses as the black flies were terrible. After the evening meal Olive, Ken and I went fishing on a small lake; all we got was wet and skunked.

July 5th it was still raining so we drove north through Haileyburg where they have a school of mines and on to New Liskard and back by another route to our camp. We stopped at the Ministry of Natural Resources for books on the area. They directed us to a bookstore south of Cobalt right on the main highway. This is an interesting place and one could spend a day there. After lunch we sent the Hodgins to see the Museum while we scouted a few more mine dumps. At 2 P.M. we were back in Cobalt and as Hermanson's Information Shop was finally open all three couples stopped in. Here we viewed a number of specimens and received a great deal of information on the history of the area as well as current information. Again we all headed for the mine dumps. Everyone got some specimens of cobalt and cobalt bloom. Ray and Frances were competing on number and length of drill cores. Back to the trailer and supper about 7:30. Again Olive, Ken and I went fishing on Lake Tamiskaming. We caught a few small ones but no keepers.

We broke camp the next morning after it stopped raining and headed north. Saw some beautiful and prosperous looking farms with dairy cattle. We stopped at the N-S continental divide site and had lunch at a picnic area. We then drove on to Cochrane, Ontario. At the Chamber of Commerce we took pictures by the Polar Bear and then parked at Rochon's trailer Park. The small lake near by was supposed to have trout in it but all we caught that evening were miniature perch.

On Sunday, July 7th, we took the Polar Bear express train ride to the town of Mosinee on James Bay, 186 miles north of Cochrane. It was a beautiful and relaxing trip. One stop on the way was for picture taking at a huge power dam. Mosinee was an interesting place, being in Cree Indian country. Olive and I entered one of the churches and saw the hymnals with English, French and Cree languages in them. Indians with outboard motor canoes took visitors to Moose Factory Island but none of

.....next page....

.....Canada trip.....

us were venturesome enough to go. We saw much Indian handcrafted items in the shops and along the streets. We had a smorgasbord dinner before returning to the train. Back to Cochrane and camp by 10:30 P.M.; nary a moose or bear was seen.

The next day we all drove to the Timmons and Porcupine area where gold was mined. Most of the area was mined by modern methods leaving only very fine waste materials. However we found a very nice fellow at the Dniiper mine now owned by Amour who showed us places to hunt. Olive found gold and was she excited; probably a touch of gold fever! The weather was humid and very hot; very poor to be out in. We moved on to another area where we found samples of pyrite, tourmaline and crystals. We then stopped at the Paymaster mine where we collected a few old dynamite boxes and drill cores. Due to extreme heat we quit and returned to camp about 6 P.M. It was election day and difficult to find stores open to buy groceries.

Raining again the next morning but we hooked up and drove westward through Kapakasing and Hearst and had lunch at Carey lake. After lunch we drove on through Longlac and Geraldton to Wild Goose Lake Park. I tried fishing but no luck. Again the black flies were terrible!

July 10th we were ready to head for home but the Hodgins elected to remain and scout the mines around Geraldton. After bidding them goodbye we headed south down along the Nipigon River. Beautiful scenery all the way. Stopped in Nipigon to shop and then on to Pass Lake Park where we arrived about 3 P.M. We then took off for the amethyst mine where we spent several hours selecting amethyst specimens. Ray and Edith picked 36 pounds and Olive and I had 27 pounds; it didn't take long for the poundage to go up as the material was so available and colorful. The fee was so much per pound for what you picked up or you could buy specimens from their tables and barrels.

July 11th we were up and off for the U.S.A. We passed through customs at 11 A.M. and stopped at the second bay on Lake Superior where we all picked agates. We searched some of the ridges for cliff agates but were unsuccessful. We drove on to Grand Marais, Minnesota and parked in the city park. Then we drove to Thomsonite beach resort where we were informed that no one except motel customers could work the area. This was the first lack of hospitality encountered on the entire trip. We drove back to a rest area and found a few specimens and met some friendly rockhounds.

On July 12th we headed for home through Duluth, Ashland and Ironwood. Arrived home about 8:30 P.M. with memories of a wonderful trip and pleasant companionship. All of us awaiting the return of Hodgins who were hauling the bulk of the specimens we had collected.

.....Laurence W. Sain

!!!!!!! 1975 dues are now payable to Arnold Mulzer 322 Rock St., \$\$\$\$
 +++++ Marquette, Michigan. 49855. We need your complete address \$\$\$\$
 ***** or addresses and telephone number, too. \$\$\$\$

DON'T TOUCH -- Ellis Courter, Michigan Mineralogical Soc.

A beautiful cluster of delicate mineral crystals is about the most comparable thing to a curvaceous young lady that I know. Each is to be looked at, drooled over, and mental enjoyment derived from what is seen--but for heavens sake don't touch!

Recently I observed a newcomer to the hobby pick up a crystal mineral specimen that had caught his fancy. Chills ran up and down my back when all at once I saw him begin to feel and pick at the individual crystals. Seemingly he was satisfying himself that they were real. Fortunately, the crystals withstood the ordeal, but for a moment both the beauty and the value of the specimen were at stake.

Now in this case, as in nearly all similar occurrences, no deliberate harm was intended, but with the influx of so many newcomers into the hobby, it well demonstrates the need of informing them of the proper ethics and methods of admiring and handling crystals, cabochons or faceted stones.

Of course the basic rule that must always be observed -- never pick up, touch, or handle any specimen unless you are invited to do so. If and when you do -- grasp it firmly along the edges of any available matrix, avoiding any contact with the crystals. Be doubly cautious by cupping one hand below the specimen -- just in case it slips. What, for instance do you say to a friend when his favorite mineral specimen lies on the floor, reduced to a shambles because you dropped it. It could happen, you know.

Never finger the inside of a geode. It could contain delicately rare crystals that just the slightest touch will render worthless.

When admiring a cabochon or faceted stone, do not smudge a perfect polish by "feeling" the finish with your fingers. And never blow on a finished piece of work and then rub it on your clothing as if to improve the polish. To do so is an insult to the craftsman who made it. He considers it as already being perfect.

Newcomers to the hobby will find they can learn much from newly acquired friends within the hobby --but adherence to these few simple fundamentals will make the experience much more enjoyable -- and, too, you'll keep friends longer. (These admonitions are excellent reminders for everyone.)

....from the AFMS Newsletter

"When people have something to live for, they discover that they have enough to live on."

"The man who does things makes many mistakes, but he never makes the biggest mistake of all -- doing nothing."

"The only bad part of being a good sport is that you have to lose to prove it."
Via- Northeast Iowa Rock Club.

Midwest Federation's NEWSLETTER

Published monthly except July and August as a service to members clubs.
All news, articles, subscription orders and requests for information concerning publication
should be sent to P. O. Box 1130, Des Moines, Iowa 50311



Issue No. 149 - November 1974

Supply orders

Clinton Heckert, Director of Supplies for the MWF, has been shipping all supplies with exception of stationary... letterheads and envelopes. Effective immediately he will also be shipping the letterheads and envelopes. Send all your orders for supplies to Clinton Heckert, 725 Stewart Street, Elgin, Ill. 60120.

MEET YOUR MIDWEST OFFICERS

The Midwest Federation will be led in 1975 by an experienced set of officers. The Midwest has an advancement program wherein a second vice president moves into the first vice president position and then to president.

The 1975 President is Terry Huizing, a native of Grand Rapids, Michigan, now living in Cincinnati, Ohio. He was graduated from the University of Michigan in 1961 with a degree in Chemical Engineering. Terry has been actively involved in the hobby in many ways. He is a past president of the Cincinnati Mineral Society, and Assistant State Director for Ohio. He is an avid amateur mineralogist and a member of Friends of Mineralogy.

First Vice President of the Midwest is Howard J. Taylor, living in Lincoln, Nebraska. Howard is a painting and wall paper contractor. He became interested in the lapidary hobby in 1959 when his son was active in the Boy Scouts.

Howard is a member of the Lincoln Gem and Mineral Club and during the past 15 years has held numerous positions in the club.

The Second Vice President is Miss Hazel Kuntz, Quincy, Ill. Hazel was a commercial artist specializing in pen and ink and layout work before her retirement. She is a member of two clubs, The Worthen Earth Searchers, Carthage, Ill. of which she is program chairman, and the Gem City Rock Club, Quincy, Ill. where she is secretary. She has been State Director for Ill. this past year. Her main interest is in minerals with some work in lapidary when the time permits.

Mrs. Joseph (Bernice) McCloskey of Elm Grove, Wisconsin is now serving her fourth term as the Midwest treasurer. She is a native Wisconsinite and a charter member and a past president of the Kettle Moraine Geological Society. She has had experience in the fields of law, real estate and banking. Bernice and her husband, Joe, are active members of the Elm Grove Lutheran Church.

Secretary of Midwest is Jean Reynolds who has been serving in the capacity for eight years. Jean lives with her mother



Terry Huizing
President



Howard J. Taylor
1st Vice-President



Miss Jean Reynolds
Secretary



Miss Hazel Kuntz
2nd Vice-President



Bernice McCloskey
Treasurer

in Clarendon Hills, Illinois and has been with the Federal Reserve Bank in Chicago for 29 years. Her present position with the bank is a senior cost accountant. Jean is a graduate of Northwestern University.

A new solution to an old problem

by June Zeitner

The state of Michigan has the most clubs in the Midwest Federation, almost 50. In many states with lots of clubs, a regional organization has grown up which is entirely separate from the Federation and is not a recognized part of AFMS. This is not so in Michigan. The Midwest Federation is the strong organization here and a vital part of all federation activities. This close alliance makes for a stronger Regional Federation and a stronger AFMS. Organized under the State Director, Bud Nicholls, there are ten Assistant Directors who each serve as the link between the federation and the immediate area clubs.

In order to assure that all clubs understood the Midwest and American Federations and were continually informed on Federation programs, activities and news, as well as the events of interest within the state, a Michigan State Newsletter was started with Joyce Hanschu as editor. But the old problem of finances reared its ugly head. Naturally the Midwest Federation could not underwrite a newsletter for Michigan, important as it was, because the Midwest also has State Directors in nine other equally deserving states.

So, here is where the new idea came to the rescue. A new club was formed, the Michigan Geology and Gemcraft Society, for the purpose of helping the Midwest Federation representatives in Michigan and to increase the effectiveness of the Federation programs by extending personal and financial aid for the work of the State Director and his assistants. The first project, under the leadership of Lee Kirby, president of the new club, is to raise money to continue the useful Michigan State Newsletter. MGGs is planning a raffle for this purpose which will be held in connection with a Workshop/Seminar sponsored by the club.

The Society has stressed that it exists to encourage and enhance the Federation and its programs. It will help expand Federation activities in the state, thus benefitting all the Michigan clubs.

Larry Bailey, MGGs Seminar Chairman, is planning a comprehensive two day event for April 5 and 6, 1975 at Washtenaw Community College in Ann Arbor, with workshops on exhibiting, junior activities, bulletins, minerals, fossils, and lapidary. This promises to be a constructive new step for Michigan and the Midwest.

OUR STAMPS ARE BEST SELLERS

Mrs. Lillian Turner, AFMS Stamp Chairman, reports that the beautiful AFMS mineral stamps are virtually a sell out. Most larger post offices have sold their entire supply with some customers reportedly stocking up with as many as 500 sheets of stamps.

Many club bulletins in all the state are using the mineral heritage stamps on their bulletins, and Mrs. Zeitner reports that the petrified wood stamp is a run away favorite. The federation is retaining a set of bulletins with the mineral stamps.

Mrs. Turner reported that Mrs. Jamieson of the Citizens' Stamp Committee in Washington is well satisfied with the reception of this colorful series of stamps. Although it is too soon to expect another block of stamps it is not too soon for AFMS members to start planning for the type of stamp they would like to work for next. It is hoped that eventually all aspects of the hobby may be honored.

President's Message

Let's reopen collecting areas

Are you interested in reopening collecting areas? Of course you are... and so is the MWF. We are looking for volunteers to help with a brand new and special group whose objective can be stated quite simply to reopen and keep open those collecting areas in the Midwest which enable our membership to learn more about mineralogy, geology, archeology, paleontology, and preserve for the future the natural wonders found therein.

Yes, we are asking you to write and let us know of your interest. The task will require the thoughtful leadership of many diverse talents throughout the MWF, people from every state who are willing to apply their skills to the social, economic and governmental conditions which will continue to close collecting areas unless we act now.

Write if you have a background in law, experience in government, legislation, or insurance, if you are acquainted with the owner of a collecting area or if you want to be involved because collecting is important to you. Together through regional planning, legislative action and just plain persuasion we can one-at-a-time reopen collection areas.

Terry Huizing

New Midwest Appointments

Illinois State Director
Minnesota State Director
Missouri State Director
Wisconsin State Director
Directory Chairman
Legislation Chairman
Uniform Rules Chairman
Boundaries Chairman
Liaison MWF - CCF

Wesley Greenfield, 817 - 18th Ave. "A", Moline, Ill. 61265
Rex Webb, 2600 W. 87 1/2 St., Bloomington, Minn. 55431
Lucille Bishop, 2465 Mullanphy, Florissant, Mo. 63031
Harold Steinke, 924 Waugoo Ave., Oshkosh, Wis. 54901
Charlotte Ferguson, 51 Pleasant Hill Rd., Milford, Ohio 45150
Theodore Cadeau, 283 Ridgewood Ave., Dayton, Ohio 45409
Betty Crawford, 1119 Seminole Ave., Mansfield, Ohio 44906
Lee Kirby, 3550 Embarcadero, Drayton Plains, Mich. 48020
Mel Berry, 44 Elwood, Mt. Clemens, Mich. 48043

Midwest Federation's NEWSLETTER

Published monthly except July and August as a service to members clubs.
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should be sent to P. O. Box 1130, Des Moines, Iowa 50311



Issue No. 150 - December 1974

UNIFORM RULES

by B. F. Parr

One of the pleasures of our hobby is sharing what we have and what we know. Displaying our collections and craftsmanship has been one of the ways we do this. Competitive exhibiting at Gem and Mineral Shows is a natural result of these displays: As we have attempted to improve our shows, we have seen competitive exhibiting grow into a major contribution to them.

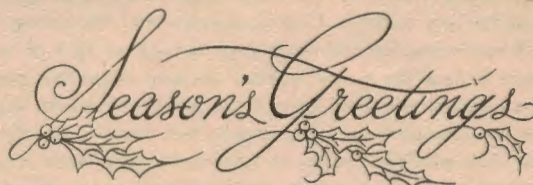
The above is the first paragraph of the Preface to the Uniform Rules of the American Federation of Mineralogical Societies. If you exhibit competitively, you are not only sharing with others but you are also receiving. You receive an unbiased evaluation of your material, workmanship, and showmanship by competent judges. You also can gain by noting other competitive exhibits, reading the judges' comments, and perhaps talking to the exhibitors.

The exhibitors to be admired are not the ones whose sole objective is a blue ribbon or trophy but are those who want to learn and improve. Competition provides that extra incentive to achieve this.

Those of us who have been exhibitors and are now involved with the Uniform Rules committee feel strongly that a major factor in the excellence of present day shows is the healthy growth of competition.

The Uniform Rules are not an arbitrary, hastily compiled, set of restrictions. They are the result of years of experience and untold hours of work by representatives of all Federations. There is much correspondence and exchange of ideas throughout the year culminating in a meeting of all Regional Chairmen with the AFMS Committee at the National Show. This year at Lincoln, the meeting lasted from early in the morning until after midnight, giving serious consideration to all proposals.

The AFMS and Regional Federation Committees welcome suggestions that may lead to improvements and better implementation of the use of the rules. Submit suggestions and proposals to the Regional Federation Rules Committee with which you as an exhibitor are associated. The Midwest Federation Chairman is Mrs. Betty Crawford, 1119 Seminole Avenue, Mansfield, Ohio 44906. To be considered at the 1975 meeting, proposals must be received by March 1, 1975.



General Mills discontinues coupon program

The General Mills Co. (Betty Crocker) is feeling the pinch of inflation and reduced profits, so they have discontinued the Betty Crocker Club Plan. It is hoped that ultimately the Plan will be resumed on a reduced scale.

Clubs with coupons on hand should send them to the MWF Regional Chairman, Mrs. W.H. Steinbrenner, 2813 Patricia Drive, Des Moines, Ia. 50322 postmarked not later than Dec. 31, 1974 to receive credit for them.

The program as used in the Scholarship Foundation has been a rallying point for Foundation Gift Drives and has produced about 11% of the Foundations Fund. Now that the Foundation will be on a "cash only" basis, there are a number of methods by which clubs can continue to raise funds for the Foundation in a relatively painless manner. Auctions, interest from club savings accounts, rebates from magazine subscriptions, memorial gifts, etc. The memorial gift is a fine way to express memory of friends and help provide scholarships in earth science.

NEW SLIDE PROGRAM AVAILABLE

The Earth Science Club of Northern Illinois has presented the Midwest with a new slide program on micromounting. It is available for immediate booking and when ordering ask for "ESCONI Micromounting". Send your request for this program to Midwest Federation Film Library, Donald Sinnett, 29462 Aspen Dr., Flat Rock, Mich. 48136.

* * * * *

New slide programs are in constant need and any club that can supply one should contact Donald Sinnett. A program on fluorescents is needed.

Supply orders

Clinton Heckert, Director of Supplies for the MWF, has been shipping all supplies with exception of stationary... letterheads and envelopes. Effective immediately he will also be shipping the letterheads and envelopes. Send all your orders for supplies to Clinton Heckert, 725 Stewart Street, Elgin, Ill. 60120.

Losing an editor?

by June Zeitner

When I read that Ellis Courter, Editor of the Michigan Mineralogical Society bulletin "The Conglomerate" was going to resign, it reminded me that each year as high as 15% of our clubs have to look for a new editor. In most cases this poses more of a crisis to the club than if the president should resign. Not that the president isn't important, but there is usually a qualified vice president ready to take over, and there is usually not an eager new editor waiting in the wings.

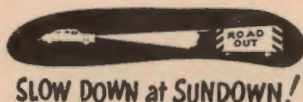
New editors are selected three ways: by election, by appointment, or by a volunteer, which is to say that anyone who says he will take it is immediately elected or appointed.

Why is a new editor so hard to find? For one thing, most editors have served several years, and club members get to identifying the bulletin with them and taking the bulletin for granted. The editor has to be an unusually dedicated club member, has to have a real interest in and knowledge of all club activities, and has to be ready to devote far more time to his job than most club officers do. He has to have a sense of priority, and top priority has to be honoring deadlines. The editor has to be observing, tactful and persuasive. He has to be original enough to write some thing to fill spaces when promised stories don't appear. He has to have strength, closet space and a sense of humor. He should know how to type, though two fingers will do, and he should know enough about spelling to know how to use Webster's. He needs a good alarm clock, an understanding helpmate, and it helps if he has a broken television and likes his meals cold.

If your club needs a new editor, try to make the job more attractive for him or her. Be active bulletin helpers. See that the equipment is good, that the budget is adequate. Put the editor on your board and include him in all plans. And, last but not least, treat that retiring editor so well that the future editor will think, "Well, maybe in the end, it will all be worth it."

Herbert F. Grand-Girard

Herbert F. Grand-Girard passed away at his home in Santa Fe, New Mexico on October 5th from a heart attack. He is a past president of the Chicago Rocks and Minerals Society, and of the Midwest Federation of Mineralogical Societies. For the first six years of its publication, he was editor of the bulletin of the Chicago Rocks and Minerals Society, "The Pick and Dop Stick", designing the cover which is still used. His interest in fine minerals continued, although a back injury prohibited much traveling and collecting the last two years. He designed and executed some unusual lapidary projects. He is survived by his wife, Oriol, who shares his mineral and lapidary interests.



More Fatal Accidents
Happen At Night!

IF YOU MOVE....

Please send us your new address so we can keep your
Newsletter coming to the correct address

FALL EXECUTIVE MEETING

The Midwest Federation held its annual fall Executive Committee meeting on Saturday, November 2, at the Mr. Smorgasbord Restaurant, Hammond, Ind.

A number of subjects were discussed and a full report of the meeting will be mailed to all member clubs by the Secretary.

CELEBRATE 25TH ANNIVERSARY

The Earth Science Club of Northern Illinois, celebrated its 25th Anniversary on November 8. Club was organized in 1949 with 13 people and now has a membership of 450. They have five study groups and two junior groups.

NEW PALEONTOLOGY CHAIRMAN

Terry Huizing, MWF President, has announced the appointment of Don Good, 410 N.W. 3rd St., Aledo, Ill. 61231 as chairman of the Paleontology Committee.

SAFETY TIP

If you are burned, you probably have been told to rub butter on the burn. Don't. It is now agreed by most medical authorities that the burned area can be soaked immediately in a container of cold water in which ice has been placed, or if you have an ice cube, rub it over the area.

JUNIOR ACTIVITIES

Michigan Geology and Gemcraft Society will host an Educational Seminar April 5 and 6, 1975, and a meeting on Junior Activities is scheduled. Contact Larry Bailey, 61340 Fairland Drive, South Lyon, Michigan 48178 for more information.

A special word of appreciation for Fred Bollinger of Chaffee, Missouri, member of several clubs, who provides material and teaches youngsters to make arrowheads at club shows and other events. As they make their very own arrowhead, they develop a greater appreciation for the Indians! During the summer he taught the art to over 400 Boy Scouts at a Jamboree.

PITCH IN.... PUT LITTER IN IT'S PLACE

Midwest Federation's NEWSLETTER

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Issue No. 151 - January 1975

State stones

I would like to hear from clubs in each state about the current status of their state stone progress. Over three fifths of our states have state stones, gems, minerals, fossils, or have bills or plans underway to designate one or more of these categories.

I started this national project in 1962 and progress has been remarkable for 12 years, but now with the Bicentennial at hand, it seems like we should have renewed effort to see that all of our states are represented by official mineral kingdom symbols.

I will be glad to write to any groups who need help about how some of the other states have accomplished their goal.

If your state is already represented, what I would like to know is how that mineral or gem symbol is being used in your state, what has been done to promote it, who has the record specimen, if anyone has tried to capitalize on it, and any other useful facts.

Address your letters to June Zeitner, Mission, S. D. 57555

MINERAL HERITAGE STAMP SLIDE PROGRAM

The AFMS has presented a copy of a new slide program to each of the Regional Federations for their slide libraries.

This program was prepared by Norman Steele, AFMS Slide Exchange Committee Chairman and is based on the issuance of the Mineral Heritage Stamp at Lincoln, Nebraska in June, 1974

Watch your Regional Federation Bulletins for information as to when this interesting program will be available to order for your club for their viewing.

Supply orders

Clinton Heckert, Director of Supplies for the MWF, has been shipping all supplies with exception of stationary... letterheads and envelopes. Effective immediately he will also be shipping the letterheads and envelopes. Send all your orders for supplies to Clinton Heckert, 725 Stewart Street, Elgin, Ill. 60120.

New appointments

Michigan State Director
Mrs. Arlene Buehler
1044 Washburn
Saginaw, Michigan 48602

South Dakota State Director
Miss Maybelle Wilcox
441 Lamero Street
Winner, South Dakota 57580

Administrative Assistant to the Treasurer
Fred (Fritz) W. Fass
1654 East Newton
Milwaukee, Wisconsin 53211

WELCOME NEW INDIVIDUAL MEMBERS

Mr. Lawrence Pugsley
203 Miles Road
Chagrin Falls, Ohio 44022

Mr. Albin A. Nowicki
807 Heidelberg Road
Toledo, Ohio 43615

OUTSTANDING JUNIOR CLUB

An outstanding club of the Midwest Federation is the Roehm Junior High Geology Club of Berea, Ohio, a Junior Club of 180 members with no adult club sponsoring it. Under the dedicated leadership of teacher Peg Johnson, the club learns lapidary, paleontology, geology, takes field trips, puts on its own show, helps with other shows, and even helps other young students in other schools learn about the world of rocks and minerals. The editors would like to hear about other similar Junior groups.

WILLIAM C. BODE

We regret that we must announce the passing of William (Bill) C. Bode on September 26 in New Berlin, Wisconsin. Bill was a long time, active member of the Wisconsin Geological Society and was publisher of The Trilobite and liaison officer of the society at the time of his death. He was assistant in the paleontology division of the Midwest Federation and supply chairman of the American Federation.

Try more publicity

This may not be a problem with big clubs in heavily populated areas, but it definitely is a problem in small clubs and in rural areas. Attendance! Or rather lack of it! Many meetings are held with so few in attendance that the business meeting is skipped or might as well be, or the program chairman is embarrassed to introduce a speaker from away to put on a program for a mere fraction of the membership.

Clubs in sparsely settled areas may draw members from 60 miles away or more. That makes over 100 miles round trip. Adverse weather makes driving hazardous in winter months. All of the small rural towns have a wide assortment of activities often scheduled on "rock club" night. These are only some of the reasons for small attendance, but often as not the reason is "I forgot" or "I didn't think the meeting would be important enough or the program good enough."

There is one way to fight this. And that is with plenty of good publicity. This seems to be the age when the media is called on to serve all kinds of American enterprises and that includes rock clubs. Each club should have reminders of each meeting in the press and over radio and T.V. for each and every meeting. The attendance will pick up in direct proportion to your publicity coverage.

Each club needs a forceful publicity director to see that this is done. Virtually all small city newspapers and rural weeklies will give space to a well-written story announcing the program and meeting. T.V. channels have public event calendars for listing noteworthy meetings. Radio stations devote much to local news. And the nearest big city dailies are eager to get more subscribers from rural areas, so will gladly accept well-written stories.

The publicity committee needs to meet the persons in charge of these various free media public services. Very few will ever turn down a club like one of ours if properly approached.

Many publicity chairmen wait until the week before the meeting to send in their announcements. Say the small town paper comes out on Friday and the club meeting is Thursday. The deadline for news is Monday. In such a case, the story would have to be in the mail on Saturday two weeks before the meeting in order to be printed in time to remind members. It is really better for an important meeting or program to have two stories in a row, in which case the chairman would really have to start to work three weeks early.

In some places, even in cities, there are phoning committees, or the secretaries send out cards, or the bulletin carries the story of the future meeting and comes a few days before the meeting. Those are all important, but do not take the place of good publicity if a build up of attendance is desired. The bulletins or cards go to only present paid up members. Perhaps the newspaper stories will draw out old members, new potential members, or visitors from other clubs.

The publicity chairman does not have to have had journalism. (But it helps.) The publicity chairman's main qualification should be that she (or he) is a lively, vivacious, persuasive

pitch in.... PUT LITTER IN IT'S PLACE!

NEEDS YOUR BULLETINS

I need your bulletin as much as ever. Since the beginning of the AFMS Club Publications Committee, I have been on the mailing list for many fine bulletins, and through them I have met many wonderful individuals and outstanding clubs. Even when my room was wall to wall bulletins, before the contest or display, I loved and appreciated them all.

Now, in order to help the AFMS Newsletter be a reflection of all that is best in our clubs, those bulletins are still important to me. So, I trust that you will all help me in my new job. A thousand thanks to all!

Address your bulletins to June Zeitner, AFMS Newsletter Editorial Committee, Mission, S. D. 57555.

person, who has a true interest in the club. Such a person can make the right contact, learn how to write releases, and become deadline oriented.

How does the publicity chairman write stories which will be accepted? First, keep the story objective and to the point. Tell who, what, where, when, and sometimes why. The famous 5 "W"s of journalism. Mention the names of people. People make news. Qualify the speaker. Why is he an authority? A newspaper story gives all of the important facts in the first or lead paragraph. The story should be typed and double spaced with plenty of room left at the top for headlines. Pictures should be black and white glossy, and sharp and detailed.

The first paragraph alone is probably all the radio and T.V. stations want. This is more acceptable if typed on heavy, non static paper.

Stories should be sent directly to the person in charge of the page or program. A story addressed just to the "Daily News" might wind up on the advertising desk, subscription department, or "Letters to the Editor".

Write about things which sound unusual, exciting, unique, important. Do not write about the wit and wisdom of the president, the fashionable clothes of his wife, the financial details of the club, or who is on the lunch committee. Do not thank people for get well wishes, report on who missed the last meeting, or what plans are being made for the next Christmas party. Keep the story here and now!

Don't write that the program will be about Cretaceous Coelenterates. Write that it will feature the coral reef which once lived where your town now stands. Keep your stories slanted so the general public will read and understand them.

The same things go about show publicity as for publicity of meetings. Only the show stores have to start earlier and run oftener. Proper publicity is important in all that we do. Has your club really given it a good try?

June Zeitner

Calender of Activities in Michigan

March 8-9 : Blossomland Gem and Mineral Society. SHOW. Lakeshore High school gymnasium, Cleveland Ave., at John Beers Road, Stevensville, Michigan.

March 9 - April 6: Grand Rapids Mineral Society. SHOW. Grand Rapids Public Museum, West Auditorium, 54 Jefferson S. E. Grand Rapids, Mich.

April 4-6: Muskegon County Rock and Mineral Association. SHOW. Bartel-Rodes, Gymnasium, Muskegon Community College, Muskegon, Mich.

April 5-6: The first annual Michigan Geology and Gemcraft seminar. Washtenaw Community College, Ann Arbor, Mich. Many of the following seminars will be working demonstrations:

- | | |
|-----------------------|-----------------------------------|
| 1. Lapidary | 4. Paleontology |
| Carving and Intarsias | 5. Junior activities |
| Faceting | 6. Exhibiting |
| Spheres | Setting up an displaying for |
| Silversmithing | a gem and mineral show |
| Wirecraft | |
| 2. Bulletin editors | |
| 3. Minerals | For more information, contact the |
| Micromounts | following member of the club. |
| Photography | |
| Field Trips | Lary Bailey |
| Preparing and main- | Vice President, MGGS |
| taining a mineral | 61340 Fairland Drive |
| collection | South Lyon, Mich. 48178 |

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LAPEER COUNTY POET HONORED

Mrs. Marian Manwell was recently honored by the Michigan State Senate in recognition of her poem entitled The Miracle of Michigan. For many years she has been known as the County Press Poet by residents of the county. She resides in Mayville. The poem, which has been widely circulated in connection with Michigan Week activities and been enthusiastically received, was recognized by a resolution of the State Senate but more especially Mrs. Manwell was recognized for her great talent. Following is Resolution No. 402:

Whereas, the people of the State of Michigan are unusually blessed by having in their midst Mrs. Marian Manwell, a woman whose inspirational poetic gift finds expression through a deep love of God and her native land, and
Whereas, no words can more aptly display Mrs. Manwell's uniquely beautiful talents as those she herself wrote in the poem set forth below, entitled,

The Miracle of Michigan

"The story is told of how, long ago, shortly after the world began God looked down and smiled on a special place, for He had a wonderful plan. He had given to all nations on earth the finest of scenery; To some he gave mountains, to others great plains, to many a sea.

There were fertile farm lands, and forests and hills, and lovely
 rivers and lakes
 Spread in panorama across the world and God smiled at the beauty it
 makes.
 But while He was putting each scene on its spot, His loving Hand
 touched a place
 And there, just beyond, on a point of land, His scepter rested its
 base.
 'Twas exactly the place He wanted to pause, in the midst of the world
 He'd planned,
 And this site was blessed more than all the rest - for it bore the
 print of His hand.
 He had touched His world in this one dear space; and this is how
 it began
 That the best of all places on earth should be our state of Michigan.

In this one fine state He'd concentrate a bit of all He'd done.
 There'd be shifting dunes on the sandy shores like the deserts under
 His sun;
 There'd be sparkling streams like miniatures of the giant rivers He'd
 formed,
 And firm, rich land to grow the plants that weather and sunshine
 warmed.
 There'd be lakes and mountains and forests great to beckon vacation-
 ing man -
 And everything found in one bright place - our state of Michigan!

So the story goes on of the miracle that made the state we love;
 For it's blessed each day in a special way when God smiles down
 from above.
 The print of His Hand still stretches out toward the mark His
 scepter left;
 And around the two, the Great Lakes lie in the hollows He had cleft.
 He favored our state with the best of all when He carried out his
 plan
 To leave His print for the world to see in our state of Michigan."

Whereas, it is more appropriate that Marian Manwells fame has recently
 been spread throughout the State by virtue of the selection of "The
 Miracle of Michigan" as part of materials sent out by the Greater
 Michigan Foundation to promote Michigan Week, 1974, now therefore be it
 resolved by the senate, that the highest tribute be extended to Mrs.
 Marian Manwell, whose gifts of beauty in thought and word will remain
 as an enrichment of life for all generations.

Adopted by the Senate, July 10, 1974.
 (Via--The Grand Valley Lithogram 11/74.)

*** *** *** *** *** *** *** *** *** *** ***
 COMPARATIVELY SPEAKING.....A plain bar of iron is worth five dollars.
 This same bar of iron, when made into horseshoes, is worth \$10.50. If
 made into needles, it is worth \$4,285. If turned into balance wheels
 for watches, it becomes worth \$250,000. This is true of another kind
 of material --YOU. Your value is determined by what you make of your-
 self.--James M. Fughes, educator. (via ERAMS)

ROCK TREES or FLOWERS

from the Calumet Gem
by Paul Good
via-- Flint Rock & Gem

What can you do with tumbled stones?
This is a question that I have heard over and over. For some time, I was asking the same question. Well, every good question should have an answer and I will answer it very briefly. Why not use your tumbled stones to make flowers or a tree?

First, you should choose a stone that would look attractive and a color to look like something that does exist in real life. I think that pink rhodocrosite makes a beautiful "cherry" tree when in bloom.

There are different ways to make a tree. For the time being let us talk about the one made with bell caps or flower petal caps.

The materials needed are: bell caps or flower petal caps, 24 or 28 gauge wire, floral tape, fast drying glue, epoxy may be used if desired or a multi-purpose craft cement, and of course, the stones.

Bell caps: If bell caps are used, flatten the bell cap straight out until the prongs are flat when laid "face" down on the table (Figure A). The flower petal caps are ready to use as purchased from your local "rock shop".

Cut the wire from 6 to 9 inches long. Take one wire and bend in half and thread through the "holes" in the flower petal cap. (Figure B) After threading, wrap one wire around one petal and the other wire around the opposite petal (Figure C). Then twist the wire all the way to the end (Figure D).

If bell caps are used thread wire through the eye and wrap wire around the petal the same way as with the flower petal caps (Figure E).



(Figure A)



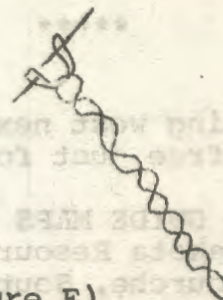
(Figure B)



(Figure C)



(Figure D)

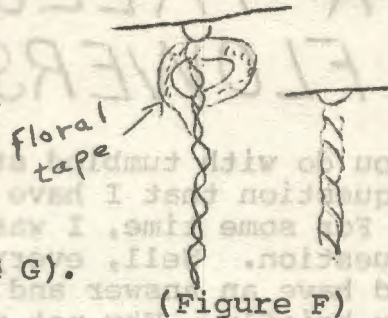


(Figure E)

.....next page....

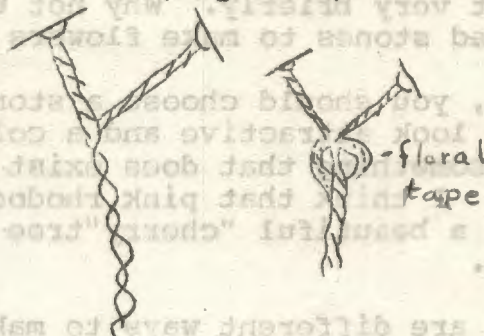
.....Rock trees or flowers, continued.....

Take the floral tape and wrap the wire by starting next to the petal (Figure F). Continue to wrap the tape to the end of the wire.



(Figure F)

After doing several of these, you are then ready to "tie" them together starting about one inch from the petal (Figure G).

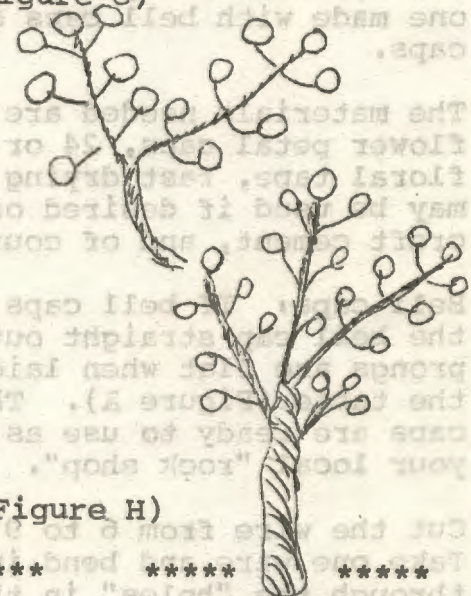


(Figure G)

Continue this until you have the shape you desire. To increase the size of the tree trunk, facial tissue may be used to wrap around the trunk to give it body. Wrap the facial tissue with wire to strengthen the tree, then with the floral tape (Figure H).

You may wish to attach your tree to a mineral or crystal specimen. Or you may put it in a pot or a planter.

To attach the tree to a specimen, bring the wires around the specimen and tie the ends together underneath. In a planter or pot, styrofoam or plaster of paris may be used.



(Figure H)

Now to protect your tree after wrapping all floral tape, you should spray with resin or coat with fingernail polish. This will keep the dust from sticking to the tape.

Now glue the stones to the petal caps or bell caps, one on each petal.

FREE MAPS AVAILABLE

Are you going west next summer? You might be interested in these maps which are free just for the asking.

RECREATION GUIDE MAPS -SD- 1, 2, 3, 4, 5, 6, 7, 7, 9
 South Dakota Resource Area Manager 310 Roundup St.
 Belle Fourche, South Dakota 57717

RECREATION GUIDE MAP OF PINE RIDGE AREA (Include in your request the PASTURE NUMBER MAP FOR OGALALA NATIONAL GRASSLANDS).
 Forest Supervisor, Nebraska National Forest -or- Pine Ridge District
 and Ogalala National Grassland 270 Pine St., Chadron, Nebr. 69337.

WHAT IS AN ORE?

Any rock or mineral that yields a useful metal is called an ore. Many ores have more than one metal in them, but perhaps not all of them can be mined at a profit. Some ores occur in veins, which fill cracks in the rock. Other ores are scattered through the rock in patches of various sizes. Still others are called bodies of sand and gravel called placers.

ORES OF COPPER: Chalcocite, Covellite, Bornite, Chalcopyrite, Cuprite, Chrysocolla, Malachite, and Azurite.

ORES OF IRON: Iron is the most important metal of all. It is the basis of the great steel industry. The chief ore of iron is Hematite. This mineral is named from a Greek word meaning "Blood-stone" because it always turns reddish brown when you crush it. The original color is either dark gray or brown. The American Indian used crushed hematite to make his red war paint. Farmers use it today to paint their barns red.

Magnetite, another major ore of iron, is also known as "magnetic iron" because of its magnetism. It is a hard, black mineral. Limonite is a low-grade iron ore, but it is usually dark brown when found, but it turns yellowish brown when it is powdered. True limonite is really a mixture of several iron minerals and various impurities. Siderite in the United States is scarcely ever used as an ore for iron, but in Germany and England it is.

Pyrite, one of the commonest of all minerals, in spite of this, it is scarcely ever used as an ore of iron, because the sulphur makes the metal "short" or brittle. Marcasite and Pyrrhotite are also ores of iron.

ORES OF LEAD: Paint, storage batteries, solder, bullets, and water pipes use large amounts of lead. The main ore of lead is Galena. You can recognize galena by its shiny gray color and the way it breaks into small steps or blocks. It is a heavy mineral, of course, because lead is a heavy metal. In the Rocky Mountains, galena is often a valuable ore of silver, as well as lead. Cerrusite, and Anglesite are ores of lead.

ORES OF ZINC: Although zinc has many worthwhile uses, such as in paint, it is not a very familiar metal to most people, except when it is used to plate steel to keep it from rusting. This is called galvanizing. A galvanized pail or wash tub is a common piece of hardware. A main ore of zinc is Sphalerite. Because the color varies from yellow to black to red, this mineral is not an easy one to recognize. Zincite, Willemite, Smithsonite, Franklinite, and Calamine are ores of zinc.

ORES OF ALUMINUM: A rare metal less than a century ago, aluminum now flies in the skies as airplanes, rides the rails as trains, and appears in the kitchen as pots and pans. This shiny, light metal comes from dull, earthy ore spelled Bauxite and pronounced "boxite". It is a rock, because it is a mixture of several minerals. Bauxite may be gray or yellow, but in tropical countries it is likely to be brown or red. Whatever the color, it usually has rounded bumps all over it. Corundum is a primary aluminum mineral and found in metamorphic limestone and in schists. Corundum also occurs as dark granules with magnetite - a form

.....ores..continued

known as emery and used as an abrasive. Hardness is 9, harder than any other mineral. Kyanite and Cryolite are also ores of aluminum.

ORES OF NICKEL: Nickel ore, hard to smelt in the early days of European mining, was thought bewitched and was spurned by miners. The world's largest deposits are located near Sudbury, Ontario which produces more than three fourths of the world's nickel. Principal ore of nickel, Pentlandite, occurs in Pyrrhotite. Minor ores are Niccolite and Millerite.

(By Dot and Fran Wood, via-The Rocky Reader)

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LAPIDARY TIPS..L.J.&Agatha Hines (Kyana Gemscoop)

- ** When planning your cabochon, always examine the slab under a magnifying glass when it is DRY. Wet it and wipe off at once. If the water goes in quickly, it shows that any of these places are soft and should not be included in your cab. Then put water on the slab again and look for pits. You will then be able to select the best part of the slab for your stone or stones, instead of wasting time on worthless rock.
- ** When slabbing pieces of rock, large or small, always use a vise, clamping it securely. Trying to hold it in your hand may result in twisting or turning, perhaps damaging the saw blade. Start the actual cutting slowly and carefully, without forcing at any time. This enables you to judge the hardness of the stone, and also determine if there is enough coolant for the saw.
- ** Using the trim saw properly will not only prolong the life of its blades, but also reveal to us the many and important uses of this equipment. After cutting your slab near the template mark, use the saw to notch the rough cab around the edges to within about one-eighth inch of the outline; you can then break off these extensions or teeth with a pliers, thus saving a lot of grinding. It is also well to remember that most diamond blades are fairly thick, (040 or 032 usually) so be sure to leave enough space between the template marks when laying out your cabs. We have found that for the finer stones and other lapidary work, it is well to have a thinner or jewelers' blade; almost paper thin (012 or 010 thick) in addition to the regular one, bearing in mind it should never be used for rough work.
- ** We have found it best to mount motors for our lapidary machines on a hinged board; this keeps tension on the belts and also facilitates changing belts. Cutting and grinding rocks takes a true, stiff belt, and one that slips, even occasionally, is very exasperating.
- ** Holding stones too long in one position will quickly groove your grinding wheels; they should be moved across the wheels so they will wear evenly. An uneven wheel, besides causing a rough running shaft, is not an efficient cutting tool. A star dresser (with steel wheels) or a diamond tipped dresser will soon return a grinding wheel to its proper smoothness. Just use a stationary rest, and with the wheel running at ordinary speed with plenty of water, pass the dresser from one side of the wheel to the other, planing it down to a smooth face. Finish the smoothing with a carborundum stick.

IDENTIFYING SOME OF THE MINERALS IN GEODES

One of the greatest pleasures rock collectors have is opening geodes but they often throw away many prize broken halves because of the lack of identification, know-how, or the belief that only hollow quartz or chalcedony geodes are of value.

Geodes range in size from 3/8" to 28" in diameter. Local legend has it that geodes of four foot diameters can also be found. Geodes of various sizes are to be found in Indiana, Ohio, Illinois, Missouri, Iowa and in Mexico, and occasionally in other states.

Many gardens are enhanced by the sparkling beauty of halved geodes. A large opened geode left outside will soon weather, but it will make an excellent bird bath. Unfortunately, when geodes are opened and the crystals are exposed to the weather, the geode is soon ruined for the serious collector.

Let us explore the many minerals that make those ugly ducklings that when opened become such a joy to us and make us as rockhounds so happy. Geodes were formed in the Mississippian Period. Accordingly, we sometimes find them still in place in the limestone and earth which also holds fossils of that period, crinoids, brachiopods, horn corals, and bryozoa. Geodes are nodules that are sometimes found in rounded shapes and hollow. If the geodes are filled with quartz, and have no hollow space, they are often cast aside as duds.

The outside shell of many, but not all, geodes is limestone; then comes a very thin layer of chalcedony, then quartz crystals coating the chalcedony and lining the cavity. Such a geode with no other mineral inclusion has been called a first generation geode.

Small cubic iron pyrite crystals are often found as though sprinkled on quartz. The pyrite cubes have been modified to octahedrons in some cases, but this is not easily observed due to the minute size of the crystals. Iridescent peacock colors of red, blue and purple pyrite have been found. Pyrite alters to limonite in some cases or may appear as a pyrite inclusion in calcite.

If chalcedony covers the quartz crystals in a very thick coating the specimen is botryoidal. If little chalcedony is present, the quartz crystal seems to be nowhere else.

Millerite is a nickel mineral that is brassy in color, taking the shape of short to long hairs. Some of the crystals have been coated with something of a black color. It fills the quartz-crystallized cavity and is sometimes matted, not unlike steel wool. Millerite inclusions have been found in very beautiful transparent crystals.

Dew Drop diamond geodes are a form of inclusion that few people have seen. This is composed of very white chalcedony, and sprinkled with

.....next page....

.....Geodes..continued

very clear, smoky quartz crystals forming a double pyramid with no center shank. The rarity of this crystal shape has led to its being termed a distorted quartz crystal. Blue or gray indicates a staining with manganese while yellow to brown indicates staining due to iron oxidation upon the chalcedony.

Goethite is found in geodes as a short, single, black tabular crystal. It is not too hard to distinguish from marcasite.

To open a geode and find sphalerite crystals is a real thrill. Such crystals are black, shiny, complex, and often deeply striated; the crystal form is isometric. To the novice rockhound the inclusion looks like no more than black coal.

Calcite in a geode assumes many shapes and colors. The crystals have infrequently been observed to be an iridescent brown. A favorite is the pink calcite which is one of the more rare colors, also. Certainly there is a wide selection as the colors range from yellow to brown, or appear as a "phantom". The black coloration is due to oil stain. The local term for crystal shape is nailhead, dog-tooth or cube. The geologist refers to such shapes as simple or flattened rhombohedron, although it may be found as scalenohedron.

Dolomite claims interest as the dolomite inclusions can, at times be found in intricate shapes. The crystal occasionally is observed to be curved forming a saddle shape. Sometimes this pearly inclusion will fill half a geode. It is found in white, pink, buff and brown. Dolomite alters to ankerite, and has been reported to alter to limonite. These are prize specimens.

Kaolinite is a hydrous silicate of aluminum. It looks like white talcum powder and has been noted in geodes containing dolomite, sphalerite and calcite. Because of the powdery composition, kaolinite geodes have been called "Cleopatra's Powder Box".

Truly, other than the Mexican cave variety, no geode should be cut, and a good idea if you are going to saw geodes is to look for the largest knob or dome on the specimen. This knob was in an upright position when the geode was forming. If you saw through the largest portion it is likely you will expose the largest surface or "picture". If the specimen is elongated or egg-shaped, saw lengthwise in order to obtain the best exposure.

A good geode collection affords many hours of study. There are to be found fluorescent aragonite, smithsonite, chalcopryrite, hematite, sel-enite, and pyrolusite. Malachite, tenorite, sulfur and chalcocite have also been found. That will make about 24 minerals known to occur in geodes.

A large unopened geode is to a rockhound what an Indian mound is to an anthropologist.

(Via - Strata Data; The Oshkosh Quarrier)

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4th issue, 1974
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