

JAN 77

THE



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 & COMMITTEE CHAIRMEN - 1977

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Librarian	Ernest Johnson	Marquette
Bulletin Librarian	Edith Anderson	Marquette
JASPILITE Editor	Sandra Phillips	Ishpeming

Deadlines: January 1, April 1, July 1, and October 1

Meetings: Business meetings: 1st Friday of the month, 7:30 p.m. at Bothwell Middle School
Program & activity meeting: 3rd Sunday of the month at 2:00 p.m., Bothwell Middle School, Oct.-April.
Field trips during the summer months.

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.
. . . Bob and Marian Markert

CONTENTS

Editor's Note	2	Calendar of Meetings.	8
President's Message	2	Alabama Marble.	9
Secretary's Minutes	3	Have you seen?.	9
Bits and Pieces	4	Rollin' Rock Club	10
Lost Steamers	5	Rockin' Around.	11
Solderless Jewelry.	7	Superstitions	12
Pewter Class Anyone?.	7	Library Book List	14
Business Meetings	8		

Editor's Note:

Putting together an interesting and informative bulletin is a new and challenging experience for me--and a bit overwhelming. You have probably already noticed that the format of the Jaspilite has been changed. I would welcome any member's ideas or suggestions concerning presentation or contents of the Jaspilite. If there are specific subjects which you would like to know more about, let me know and I will keep my eyes and ears open for new material.

Since this is your bulletin, I would like to include in each issue many articles submitted by individual members. We all have special interests which pertain to different facets of the "rockhound" hobby. I would like to share your knowledge and ideas with the other members of the club. Perhaps there are other members who share your particular interest and who would like to enjoy it with you. Being able to share our knowledge and enthusiastic search for more is one of the delightful aspects of being a rockhound. If you would like to share your thoughts and experiences with us, please let me know. None of us are professional writers--as far as I know--but please don't let that stop you. Between us we should be able to put our ideas into words. If the Jaspilite is going to continue to be as fine a bulletin as in the past, I will need your help.

Sandra Phillips

Happiness is when a bulletin editor is so swamped with articles from club members that you are forced to hold some for your next issue.

Sentiment of bulletin editors everywhere, via The Loess Bulletin.

A MESSAGE FROM THE PRESIDENT:

A new year, filled with the expectation of new adventures. This is also a time for reflection, a looking back. The Club again did a yeoman's job in putting on the 11th Annual U.P. Gem and Mineral Show. Although numerous people stand out for their significant efforts, it took the majority of the active members to not only contribute their time and participate in the many events, but to also 'flush out' exhibits and displays. Notable too was the absence of petty squabbling and bickering amongst members and the business segment that has plagued other clubs in the past sponsoring the annual U.P. show. Our many visitors, friends and residents eagerly anticipate any event backed by the Ishpeming Rock and Mineral Club.

Internally, procedural changes seem to be meshing well. As you know, our business meeting is now on the first Friday of the month permitting our general meeting on the third Sunday to be devoted exclusively to program and special interests--both meetings held at a central location, Bothwell Middle School. After a hiatus of three-quarters of a year, we finally have the services of an Editor for the Jaspilite, Sandra Phillips; she will be ably assisted by the Sains, Dorothy Tubbs, and other members who had columns in the past. We still lack an active Publicity Chairman, a condition that will be resolved by the next meeting.

The backbone of any responsive, relevant organization is the nurturing of its junior members and attraction of new members. To grow complacent is to become stagnant... and we all know the state of stagnant pools. We still need to do much more for and with our junior members. Is there not someone or group that would be willing to take this on as a project goal? Likewise,

a permanent address for the Club, someplace where we can set up our equipment, locate our files, stretch out and get into it! These are things to concentrate on for this forthcoming year.

Let us all consider the ominous fact that we face the immediate diminishing of prime natural resources. Closer to home in relation to our hobby interests, this goes too for our collecting sites and ability to get there. We live in an area of the country--world--surrounded by magnificent mineral locales. Taken together the Iron and Copper Countries of the Upper Peninsula produced some of the most beautiful, rare and valuable minerals ever found. It is and forever will be considered one of the most unique mineral regions of the world, few others can stand up to its production and vitalness to the economic well-being of a country. For us it now means the ability to glean from its discard/poor rock piles a treasure or two for our personal enjoyment. As we go about our collecting activities, two things should come to mind: learn more about what we collect and share extra items. That's it. Good cheer for the new year and happy hunting.

Carlton W. Gutman

NOTES FROM THE SECRETARY'S

MINUTES.

In September we received an All American Federation Club award in recognition of our activities throughout 1975.

The 1976 U.P. Gem and Mineral Show held in Marquette in August was a big success. After all receipts for income and expenditures were accounted for, Laurence Sain reported that the Club made a net profit of \$774.25. The Hong Kong

merchandise displayed at the Show was put out for sale to Club members after the September 2nd business meeting. The unsold merchandise was then returned to Lo & Rador Inc. in Hong Kong.

The format for our Club meetings will remain the same in 1977. The monthly business meeting will be held on the first Friday night of each month at 7:30 p.m. at the Bothwell Middle School in Marquette. This meeting is open to the entire Club membership, and it is the officers' hope that more members will attend this year. The program meeting will be held on the third Sunday afternoon of each month at 2:00 p.m. Bob Phillips, Program Chairman, has indicated that he would like individual members to volunteer to make a presentation to the Club concerning their individual interest in the hobby.

Our present slate of officers will continue to serve in 1977.

We are pleased that we have quite a number of new members. They are Elizabeth Floyd, Peter Hansen, Henry and Sylvia Belmore, Mr. and Mrs. Charles Waters, and Mr. and Mrs. Bob Larson. Welcome fellow rockhounds!

The Jaspilite will now be put out on January 15, April 15, July 15, and October 15. Articles should be submitted as early as possible. The deadlines will be January 1, April 1, July 1, and October 1. The membership list will be included in the April 15th Jaspilite with a supplementary list in the July edition. Please pay your dues early, before April 1, so that your name will be included.

Our Christmas dinner held on December 12 was delicious. The centerpieces, ming trees made from copper wire and tumbled stones, were made by Ingrid Bartelli and Olive

Sain. These were given out as door prizes and the lucky winners were Dorothy Tubbs, Faustin Anderson, Bart Bartelli, Cheryl Johnson, Bob Markert, Olive Sain, Joe Dunham, and Elmer Jarvi. Many members brought additional material to be given as prizes. Helen and Ernie Johnson's five-year-old daughter, Annette, drew for the winning numbers. They included the following: Janet Plimpton, Ray Anderson, Carl Gutman, Marion Markert, Annette Johnson, Mike Bermani, Theresa Mongiat, Chic DePetro, Mrs. Sarvello, Fran Fallat, Fred Garceau, Helen Johnson, Mrs. Phil Andriacchi, Dorothy Bowns, Francis Woods, Edith Anderson, Frazier Tubbs, Elmer Jarvi, Mrs. Dunham, Eleanor LaChance, Mr. Shenks, Henry Belmore, Ken Hodgins, and Mrs. Hodgins.

Happy new year!

Sandra Phillips

BITS AND PIECES

by Arnold Mulzer

Have you paid your 1977 dues? If not, you can send them to my home address below or give them to me at any meeting. My address is 322 Rock Street, Marquette, 49855.

Some Michigan facts

1. The most remote area of Michigan's Upper Peninsula is within 30 minutes of a shopping center enabling a visitor to be a million miles from nowhere and yet close enough to modern conveniences.
2. The 1844 discovery of iron ore at Negaunee in the U.P. of Michigan was of greater importance to the economic and industrial development of America than the California gold rush of the same era.
3. Next time you look for agates on the shore of Lake Superior, remember that the Lake is the

largest fresh water lake in the world.

4. Every rockhound knows that Upper Michigan has many iron ore mines, with copper mining holding second place. But did you know that we can boast of also having gold, silver, asbestos, isinglass, talc, and manganese. All but manganese dumps can be found in Marquette County.

People who say "that's not my job" must be made to understand that their value declines sometimes below zero; they're just not needed anymore. Nothing in this world can be obtained without labor. The more precious the object, the more serious the efforts to obtain it.

Most of us know that Ishpeming was the host city for the 1972 Midwest Federation Show. But did you know that Houghton sponsored the event in 1966. By the way, Dayton, Ohio, will host the show in 1977; Cedar Rapids, Iowa, in 1978; Columbus, Ohio, in 1979; and Evansville, Indiana, in 1980.

I would like to introduce you to one of our newer members, Pete Hansen, a retired locomotive engineer. Pete spent 46 years as an engineman for the Lake Superior and Ishpeming Railroad. During his time he has seen the change in the iron mining industry, the closing of underground mines and the development of the open pits, such as the Empire and Tilden. I know that Pete knows of more mine sites and dumps than any member of our Club. Have you ever heard of the Sellwood, Brasswire, Kate Shaft or Iron Cliff? If not, ask Pete.

To end this, I remind you that dues are due. Pay by April 1 to get your name in the Jaspilite membership list.

DUES ARE DUE

Midwest Federations NEWSLETTER



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should be sent to the Editor, Haydon Peterson, Parrot Printing, 2125 Forest, Des Moines, Ia. 50311

November 1976 - Issue No. 169

Here are your Midwest officers for 1977

MISS HAZEL KUNTZ IS YOUR MIDWEST PRESIDENT

Again in 1977 our Midwest Federation will be led 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 on to president.

The 1977 president is Miss Hazel Kuntz, Quincy, Ill. Hazel is well qualified for the position of Midwest president. She was a commercial artist specializing in pen and ink layout work before her retirement. She is a member of two clubs, The Worthen Earth Searchers, Carthage, Ill. of which she was program chairman, and the Gem City Rock Club, Quincy, Ill. She has been a State Director for Illinois and her main interest is in minerals with some work in lapidary when the time permits.



Miss Hazel Kuntz

The first vice president of the Midwest for 1977 is Paul Good, Griffith, Ind. Paul has served on the Bulletin Editors committee and showed outstanding leadership in this field. He served as president of his local club and as show chairman for local shows. He is an expeditor for a large manufacturing plant.

Second vice president is Mrs. Betty Crawford, Mansfield, Ohio. Betty has also had experience in Midwest procedures and is very well qualified for the position of second vice president. She has been Uniform Rules Committee Chairman for 1976.

Milford J. Sharp continues as treasurer of the Midwest for 1977. He lives in Fairview Park, Ohio. Milford has been a State Director for Ohio. He has had financial experience as local treasurer of his union. He is now a teacher in training of workers in installation and operation of switching equipment for Ohio Bell Telephone Co.

Miss Jean Reynolds continues as secretary of the Midwest for 1977. She has served in this capacity for ten years. Jean lives with her mother in Clarendon Hills, Ill. and has been with the Federal Reserve Bank in Chicago for 31 years. She is a senior cost accountant. Jean is a graduate of Northwestern University.

OGDEN MAKING PLANS

The Golden Spikes '77 Empire of Gems Show, to be hosted by the Golden Spike Gem and Mineral Society for the Northwest Federation of Mineralogical Societies, will be the National show next year. Show Chairman, Ivan Rudd, says plans are falling in place to make the AFMS and Northwest convention events outstanding and memorable for the four day show which runs from August 18 through August 21.

The show will be held at Weber State College, Ogden, Utah. Ogden is a city of nearly 100,000 on the edge of the beautiful Wasatch Mountains, with Great Salt Lake not far to the east.

Special attractions, programs, meetings, and exhibition plans will be announced in the AFMS Newsletter at later dates. Ogden is located on Interstate 80N. There are many excellent motels and campgrounds. Utah is a state with exceptional vacation opportunities, including several spectacular National Parks and Monuments, and magnificent National Forests.

ALL AMERICAN AWARDS FOR 1976

The November AFMS Newsletter has the new All American entry blank. Please see that the proper officer in your club gets it so the entry can be filled out and mailed by the March 31 deadline. Midwest last year had the largest number of entries of any Federation, more than half of the total of the entire nation. We had 5 AFMS trophies and 13 Midwest Merit Awards. (Merit Awards use same entry as AFMS All-American.) There were also 7 AFMS honorable mentions.

This is an excellent program, enabling us to keep track of the worthwhile activities of our neighbor clubs, to keep our own history, and to let others know our accomplishments. The program originated in the Midwest under Katie Steinbrenner and Merton Young, with June Zeitner serving as first chairman. It was adopted nationally when Bernice Rexin was President of AFMS. Joe Bloom was first Na-

Continued on back page....

YOU'VE GOT A DATE IN DAYTON (Ohio) JULY 21-24, 1977 - MWF SHOW AND CONVENTION

Continued from front page....

tional Chairman. Midwest has had a consistent record of participating in this program better than any other Federation. Judges for the current contest will be announced soon.

If any club does not get its entry form or has any questions regarding their entry please write me at once. Can we top last years record of 96 entries? I think we can. Thank you all, and congratulations to these fine clubs. June Zeitner, Merit Award Chairman, Mission, South Dakota, 57555.

THE OGDEN SCENE

by June Zeitner

When the Golden Spike Gem and Mineral Society hosts the National Show next year for the Northwest Federation in beautiful Ogden, Utah, federation members will have a fine choice of activities before and after the show, which is scheduled for August 18-21.

Ogden Valley is a scenic resort area with rolling hills and a backdrop of pine-covered mountains, with lakes and streams providing excellent fishing. At the mouth of dramatic Ogden Canyon a sporty golf course is situated. Not far away is Great Salt Lake, the nation's great inland sea. In historic Mormon Country, Ogden's Tabernacle is noted for unique architecture. History buffs will want to visit Promontory, west of Ogden, where the golden spike linked America's transcontinental railroad route.

Ogden is a city of dynamic growth, an agriculture and livestock center, a tourist center and transportation center. There is also manufacturing and there are two defense installations. The show will be held at Weber College, a four year modern college in a garden-like setting. The city is situated on the Weber and Ogden Rivers. Ogden was named for a representative of the Hudson Bay Fur Company, who trapped in the area in the early 1800's.

Of geologic interest in the area is the Wasatch fault exposed above the bench marks of ancient lake, Bonneville. Utah is a state with a remarkable variety of minerals, rocks, gems and fossils. Members of the Golden Spike Club have been working several years on plans to make their big show a truly outstanding event for all who attend.

A MAMMOTH GIFT

by June Zeitner

Although it was a mammoth gift, it really was a mastodon. Peter and Neal Larson and James Honert of Black Hills Minerals, Rapid City, South Dakota, made the largest presentation ever made at a rock club banquet, when they highlighted the South Dakota Bicentennial Rock Clubs Banquet with the presentation of a mastodon to the Museum of the South Dakota School of Mines. The Rosebud Sioux Tribe joined the young men in making the presentation to the Museum. The mastodon was found by the three men in Todd County last spring. Willard Roberts accepted on behalf of the Museum. It is expected the finders will help with the restoration and that the mastodon will become a feature display.

The South Dakota event was held in the Wall Drug dining room in connection with the state Bicentennial Field Trip. The story of the mastodon has appeared in newspapers and magazines from coast to coast. A rare species, the Gomphothere, is much older than the mammoth, which is also found in South Dakota.

NEW ASSISTANTS IN INDIANA AND KENTUCKY

Charles J. Walker, the new state director for Indiana and Kentucky, has named Dr. Garry Bolinger, Indianapolis, Indiana, and Miles M. Smith, Frankfort, Kentucky, his new assistants. R. Dee Rarick, Bloomington, Indiana will continue as an assistant.

FOSSIL EVIDENCE SHOW LAND BRIDGE

By Russell MacFall

Scientists have announced at a recent meeting in France that they have discovered fossil evidence of a land bridge which once spanned the North Atlantic connecting North America with Europe.

Dr. Robert West of Milwaukee's Public Museum and Dr. Mary Dawson of the Carnegie Museum, Pittsburg, said that the fossil mammals and birds of Canada's Ellsmere Island, have been found to match similar remains found in western Europe. Fossil evidence leads some scientists to believe that North America and Europe were joined and gradually split apart and the space between was filled by the Atlantic. The theory is that the last continental connection stretched between the northernmost tips of the two continents by way of Greenland, Iceland, and Spitsbergen, an island north of Scandinavia. The split could have been 45 to 48 million years ago.

Plant fossils found at Ellsmere Island indicate a moderate climate. Sequoia trees once grew there. Animal fossils indicate the area was swampy. Among the animal fossils have been mammals, alligators, salamanders, turtles and birds. Ellsmere Island is located above the Arctic Circle, west of Greenland.

OVER 150 MILES OF PASSAGES MAPPED IN CAVE

The Indianapolis Star reports the story of the link between the Floyd Collins Flint Ridge Cave System and the Mammoth Cave Complex of Kentucky, which makes this cave system the world's largest. Over 150 miles of passages have been mapped by spelunkers who have explored here for the past century.

A new book "The Longest Cave" by Grucker and Watson, tells of the contemporary cavers who formed the Cave Research Foundation dedicated to exploring connections between the great caves of Kentucky.

Although we often hear that the earth has been completely explored there are several frontiers left for adventurous trained explorers in our times. Besides caving these include underwater exploration and exploration of the Arctic, Antarctic, and Polar regions.

IF YOU MOVE...

please send your new address to our Secretary, Jean Reynolds, 107 Tuttle Ave., Clarendon Hills, Illinois 60514

Merry Christmas * Happy New Year

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December 1976 - Issue No. 170

MIDWEST FEDERATION HOLDS FALL MEETING IN BLOOMINGTON

The Midwest Federation held its annual fall meeting in Bloomington, Ill. at the Ramada Inn Saturday, Oct. 30. Officers for the 1976-77 year were installed. They are, Miss Hazel Kuntz, Quincy, Ill., President; Paul Good, Griffith, Ind., 1st Vice President; Mrs. Betty Crawford, Mansfield, Ohio, 2nd Vice President; Miss Jean Reynolds, Clarendon Hills, Ill., Secretary; Milford Sharp, Fairview Park, Ohio, Treasurer.

A check in amount of \$2,372.68 was presented to Mel Sharp, Treasurer, representing the Midwest share of the St. Louis, Mo. show and convention last July.

Discussion covered many subjects in the promotion of the rock and mineral hobby and the operation of the Midwest Federation during 1977. A full report of the meeting will be mailed to all clubs by the Secretary as soon as possible.



Midwest officers for 1977, from left, Miss Jean Reynolds, Secretary; Miss Hazel Kuntz, President; Paul Good, 1st Vice President; Mrs. Betty Crawford, 2nd Vice President; Mel Sharp, Treasurer.

CHICAGOLAND GEM & MINERAL ASSOCIATION ORGANIZED BY CHICAGO AREA CLUBS

by Russell McFall

In the first venture of its kind in the Chicago area, seven clubs have organized the Chicagoland Gem & Mineral Association and will hold a combined show on the Memorial Day weekend, May 28, 29, and 30, 1977 at the DuPage County Fairgrounds West of Chicago. Several nationally-known speakers will appear on each of the three days of the show, and 21 dealers have been invited to have booths with their fossils, minerals, and lapidary materials for sale.

The Memorial Day weekend is traditionally the best one of the year in the Middle West. For that reason, the famous 500-mile auto race is held then at Indianapolis, Indiana. With mild weather and sunny skies and acres of space for parking and camping, the fairgrounds is regarded as an ideal location for a show and in such demand that it must be booked a year or two ahead. It is about 20 miles west of the Chicago Loop, close to Interstate 66 from the south and 80 from the east and west. A number of motels are nearby, including several of the nationally-known ones. The nearest city is Wheaton. Downtown Chicago can be reached

Chicagoland... please turn to back page...



Mrs. Lucille Bishop, Missouri State Director, presents check to Midwest Treasurer, Mel Sharp, representing Midwest share of the show and convention in St. Louis last July.

DECEMBER 31, 1976

is the date when you count the number of members in your club and remit per person dues to the Midwest Federation Treasurer for 1977.

YOU'VE GOT A DATE IN DAYTON (Ohio) JULY 21-24, 1977 - MWF SHOW AND CONVENTION

Scholarship winner

It is with considerable pride that the AFMS Scholarship Foundation announces the names of the students who will receive grants this fall as they pursue graduate degrees in Earth Sciences. In this, the fifth year the six Regional Federations have selected their Honorary Award Winners, we are able to increase the grants to \$1,000. If a student continues in school, he or she, will receive a similar grant next year. In addition, through the splendid support of the membership of the AFMS, three one-year "Wild Card" grants of \$750 have been provided, as was announced last winter.



Terry D. Keegan, who receives the regular grant for the Midwest Federation, is pursuing his M.S. in Geology at the University of Chicago and hopes to continue for his doctorate and subsequent research or teaching. A native of New Orleans, he received his B.S. in Earth Sciences from the University of New Orleans, specializing in crystallography and crystal chemistry.



Terry Keegan

He has done field work in Mexico and is working on research into a suite of authigenic minerals such as albite and adularia feldspars.

Chicagoland... continued from front page...

for shopping in less than an hour. The show advertises that it is "an educational and fun week-end that only Chicago can provide."

The fairground has four buildings for use of the show with 38,000 square feet of space, including a cafe area. The clubs through their association are inviting competitive and special exhibits, and plan to have displays from some of the notable museums and universities in the area.

The clubs forming the association are Chicago Rocks and Minerals Society, Earth Science Club of Northern Illinois, Chicago Lapidary Club, Calumet Gem & Mineral Society, Des Plaines Geological Society, Elgin Rock & Mineral Society, and the West Suburban Lapidary Club.

For more information write or call M. C. McMahan, show chairman, at 1220 W. Henderson St., Chicago, Illinois 60657, phone 312-549-3612.

THE SHOW AND CONVENTION IN ST. LOUIS

last July had total receipts of \$47,621.21. Total expense of the show was \$42,765.00.

THE CLEVELAND GEOLOGICAL SOCIETY

one of our newer clubs, has Sister Joan Acker as its President. This club has scheduled programs through its May 1977 meeting. Interesting program titles, "Africa's Rift Valley", "Geology of Yellowstone Park Area", "Geology of North-eastern Ohio", and "Geology of Southeastern Australia" are among those listed.

A NEW SLIDE PROGRAM

entitled "Introduction to Nebraska's Fossils" has been given to the Midwest Federation by the University of Nebraska through the efforts of Roger Pabian, our Education Committee Chariman. When this program is ready for use by our clubs we will let you know in this Newsletter.

DO NOT SEND

General Mills coupons to us for Scholarship credit. The General Mills Company no longer has this program open to us. You will be advised when the program is again available for our use.

GET THOSE SLIDE PROGRAMS BACK

promptly to Donald Stinnett, our Midwest Film Library chairman, after your clubs use. We have had reports from Don that some clubs are keeping the programs long after their club showing date which causes problems for Don in getting the program to other clubs who have it booked for their meetings.

ST. LOUIS TROPHY WINNERS

"A Tribute to Our Competitive Exhibitors"

Reported by Calvin George

The theme of the MWF show in St. Louis last July, "A Tribute to Our Mineral Heritage", furnishes an appropriate source for the above caption. The Midwest Federation pays tribute not just to those named below, but to all of the 61 hard-working exhibitors, dedicated to the proposition that competitive exhibiting can be fun!

Our congratulations to the following trophy winners and to their clubs. The asterisk before a name signifies that the individual additionally earned eligibility to compete for an AFMS trophy in the future.

1. Minerals, Mike Tower - Rockwood Gem and Mineral Society
3. Thumbnail Minerals, *Hazel Tarcza - Show-Me Rockhounds
5. Minerals, Junior, *Cheryl Hindrichs - St. Louis Minerals & Gem Society
6. Lapidary, William A. Thies - McDonnell Douglas Gem & Mineral Society
7. Cabachons, *Elmer Schmidt - Chicago Lapidary Club
12. Fossils, Junior, *Mary Ann Bolser - McDonnell Douglas Gem & Mineral Society
13. Jewelry & Art Metalcraft, Janine R. Hendricks - Rockport Lapidary Club
14. Educational, William Schulze - Rockwood Gem & Mineral Society
18. Archeology, William Stewart - McDonnell Douglas Gem & Mineral Society

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January 1977 - Issue No. 171

A MESSAGE FROM OUR PRESIDENT, HAZEL KUNTZ

1977 - A YEAR FOR PROGRESS

We've this whole new year before us, and so many things can be done with it. What are your plans? During these winter months you are probably promising yourselves that you'll get all the materials accumulated during the spring, summer and fall months into their proper order and place and that you are going to get a lot of work done in the lapidary field, too. If you are like me, you'll find that there isn't as much extra time in the winter as you thought there'd be, and it's hard to get everything you want to do squeezed in.

In the area of our Federation association there are some items that should certainly be given prompt attention. By this time the State Directors will have sent out the Directory forms to all clubs. Now is the time to get those forms completed and sent to Jean Reynolds by January 10. Don't forget to send with it your check for membership dues based on your club membership as it stands on December 31, 1976. If those of you in each club who are responsible for getting these forms in will really get on the ball and complete this job, it will surely make the work of preparing the Directory much easier for the committee in charge and speed the delivery date. So, let's get this material in on time so that we can report a full and complete club membership in the Federation with no delinquent clubs. **THANK YOU!!!**

Our Directory is probably the most important book we produce for club and every member use. There are so many advantages to having it. It is a must for interclub use, as it contains a listing of all clubs with the name of the president, liaison officer and bulletin editor if a bulletin is published, also, time and place of regular monthly meeting, so that, if you are in the area, you may attend the meeting or contact someone for area hobby information. There is a listing of materials and programs available with information for obtaining them. The calendar of events section is useful in determining dates and places for shows, swaps, etc., in your area or along your vacation route. Names and addresses of all officers and committee chairmen are included whom you may wish to contact for special information in their line.

Two directories are sent free to each club at the time of publication. These should be made available to all members of the club for their reference. Or, if you would like your own copy, it can be purchased from the Director of Supplies, Clinton Heckert, or at the Midwest Federation booth at shows. So, won't you please help our committee put out a fine and complete Directory and then use it. Again **THANK YOU!**

Continued... Please turn to back page...

WELCOME NEW CLUB

Geology Society of Brunswick High School
President, Cathy Klesta
Adult Sponsor, Mr. R. W. Fabiel
141 E. Sprague Rd.
Seven Hills, Ohio 44131

CARL BOXELL

has been named as Assistant State Director
for the state of Indiana. Carl lives at 513 W.
Elm St., Hartford City, Indiana 47348.

MERIT AWARD TIME

There are many reasons for entering the ALL AMERICAN and MERIT AWARDS program of AFMS and Midwest, but the main one is that it helps you. Your club should analyze what it has done each year, so it can keep track of its history and so it can see where it is headed. It should let the Federation officers and the other clubs know what it is doing. The members should be reminded that they are important to the club and that their club is important in the Federation.

Every club cannot get an award, although many more deserve awards than we are able to give. Sometimes your club may feel they are equal to many of the award winners and that is probably true. But isn't it a good feeling to know that your group is just as active, and involved and successful as the winners? Perhaps your club was the inspiration for the winner. This could be your year! The judges have an unenviable job trying to choose, and of course their choices must be made from what you report you are, which may be understated! While perhaps your neighbor has overstated his report.

All clubs which enter are awarded certificates, since AFMS considers the All American a worthy program, and hopes for high participation. Midwest traditionally has the highest participation, and this has been a "feather in our cap." Midwest will also honor the state with the highest participation.

Please get the person in your club who has the best knowledge of your club's activities, and the person who has the best way with words, and a few other leaders together and fill out the All American blank from the November AFMS Newsletter. This is also the Midwest Merit Award blank. Just the blank will do - and your bulletin - but the more we know about you, the better your chance to be a "club of the year." If you can't find a blank, or have any questions, write June Zeitner, 2205 S. 281, Edinburg, Tx. 78539. Phone (512) 383-3163.

YOU'VE GOT A DATE IN DAYTON (Ohio) JULY 21-24, 1977 - MWF SHOW AND CONVENTION

**SCHOLARSHIP FOUNDATION:
PRESIDENT'S ANNUAL REPORT**

For the Year November 1, 1975 to October 31, 1976

Thanks to the wonderful support the Foundation continues to receive from the AFMS membership, the Fund has made substantial growth again this past year. This growth is manifest by the fact that we were able to increase the regular grants from \$750.00 to \$1,000.00 per student per year, and were also able to provide three special one-year "Wild Card" grants. These special grants, made for the 1976-77 school year, were for \$750.00 each. In addition, we will be providing a one-year "Wild Card" grant of \$1,000.00 for the 1977-78 school year.

Many of our Societies have now reached percentage heights which would have been considered practically impossible just a few years ago. This past year we not only issued three 2000% Plaques and three for 2500%, but recognized two achievements which merit special mention: the Glendale Lapidary & Gem Society of California reached 3500% and the Foothill Gem & Mineral Society of LaCanada, California reached 3600%. That represents a total contribution of \$35 and \$36 by each member of those Societies!

Regular Grants for the 1976-77 school year are all for \$1,000.00 while the other Grants are all for \$750.00. This brings to 64 the total number of students receiving assistance from the Foundation since 1965.

The Officers of the Foundation would again like to thank all the members who made this possible. And my special thanks to the Society Chairmen and Editors, and especially the Regional Chairmen, upon whose support and untiring effort our success depends. *Glenn Lee, AFMS Scholarship Foundation President.*

OZARK EARTH SCIENCE CLUB

of Mountain Home, Arkansas celebrated its tenth anniversary as a member of the Midwest Federation last month. This Arkansas club is also a 500%er in the Scholarship Foundation. Mrs. H. B. Irby is President

President's message... continued from page 1

There are two other projects that require your prompt attention, the Bulletin Editor's Contest has a deadline of December 31, 1977. We urge all of you who publish bulletins to try for these awards. This year there are three categories: large, 6 sheets, 12 or more pages; small, 5 sheets, 4 to 10 pages; mini, 2 sheets, 4 or less pages. The rules and suggestions for this are printed in the November 1976 AFMS Newsletter. The other project is the All American Federation Club Award Contest. The Application Form for this is in the AFMS November Newsletter. Please enter this. Last year we were tops in the number sent in by any federation and more than half of those sent in by all federations. Let's keep it that way. This deadline is March 31 in the Award Committee's hands.

I would also remind all committee chairmen to send the complete list of their assistants, name and address to Charlotte Ferguson as soon as possible, so that she may complete those pages of the new Directory. Again, I would thank all of you for your sincere efforts in helping make 1977 a banner year for the Midwest Federation.

**IN PREPARATION:
NEW UNIFORM RULES BOOK**

After a three year moratorium and a year's period with new rules, the 4th edition of the rules book is now in preparation and scheduled for distribution in January. It will supercede the orange book issued in 1973 and the supplement used in 1976. The revised rules are to be used at all Federation Shows in 1977.

The more important changes adopted at the Uniform Rules Committee meeting at Austin are described below. This should give advance help to exhibitors planning to enter at Dayton or the AFMS Show at Ogden, Utah.

Two new classes for traditional domed cabachons were added, one for cabs of one material, the other for cabs of more than one material. Classes CC-1 through CC-5 remain for "Modern" cabs. The minimum number of cabachons to be shown has been reduced to 25.

In the Mineral Division, the restricted classes, B-3X to B-11Y, will newly require a minimum of 20 specimens. Inspection of micromount minerals has returned to the traditional 10 mounts rather than all specimens.

The Jewelry and Art Metalcraft Division added a new class, D-7, for jewelry using lapidary material not necessarily cut by the exhibitor.

The rules for educational exhibits were completely rewritten. Exhibitors should study them carefully in preparing their displays.

In an effort to induce more exhibits of faceted stones the minimum number has been lowered from 30 to 20.

For some time conscientious exhibitors have been bothered by seeing other exhibitors win ribbons or even trophies although the applicable requirements were not met - such as fewer specimens than the minimum called for. This was possible because the penalty for duplication or out of class was only 2 points per specimen. Under the new rules 5 points will be deducted from the total score for each duplication or out of class specimen. All exhibitors should make sure they know the requirements of the class they enter!

Two new AFMS Trophies were approved: one for Minerals - Restricted Classes B-3X to B-11Y, and the other a Junior Trophy for Jewelry and Art Metalcraft. There is also good news for those juniors who have already won an AFMS Trophy - now they may compete for the same trophy without having to wait three years as long as they enter a different subdivision than the one in which they won the trophy.

When the new books are received each club will receive a copy and announcement made as to ordering, **READ THE RULES CAREFULLY.** The summary above is not intended to substitute for the complete book. If you have any questions on the rules, write to the MWF Uniform Rules Chairman, Calvin George, 5 S. 144 Webster St., Naperville, Illinois 60540.

FRED LABANN

has been named the new Historian and Archives Committee chairman. Fred's wife, Esther, will be his assistant. The Labann's live at 4420 Jean Street, Alsip, Illinois.

LOST STEAMERS CARRYING COPPER by Dorothy Tubbs

In the October ROCK TRAILS (State Line Gem & Mineral Society) there was an article from The CRYSTAL GAZER titled "Missing Cargo of Copper" written by David C. Pollauf.

Mr. Pollauf told about the ship Kitty Reeves which lies some 2000 feet off Tawas Point under 20 feet of water and an estimated 12 feet of sand.

When hit by a gale and driving snowstorm off Tawas Point on November 7, 1870, the three masted schooner was carrying 450 tons of copper ingots valued on today's market at \$250,000. In desperation the anchor was dropped and a lifeboat launched. The crew of eight and the captain spent the night in an open lifeboat but reached safety the next morning at Point Lookout. During the night the ship's anchor chain broke and the Kitty Reeves drifted for several hours finally sinking with her load of copper.

In 1952 a salvage attempt was made and then there was trouble. Two groups came looking at the same time with much arguing over rights, but both attempts failed.

So the Kitty Reeves and her valuable cargo still lies on the bottom of Lake Huron off Tawas Point.

From "Treasure World" via
Dopstick, Crystal Gazer
and Rock Trails.

Another ship lost in the same general area was the steamer Pewabic. A book about the Pewabic has been written by Gregory J. Busch, Oceanographer, Explorer, and President of the Busch Oceanographic Equipment Co.

At 8 p.m. on August 7, 1865, the passenger steamer Pewabic sailed from Houghton, Michigan, with a full load of about 175 passengers, the crew and a load of freight aboard. The cargo included 48 cakes of Isle Royal copper weighing 7,387 lbs., 41,400 lbs. of Quincy Mine copper, 9,109 lbs. of Hancock Mine copper, 53,600 lbs. of Pewabic Mine copper, 32,200 lbs. of Franklin Mine copper ingots and a large quantity of Quincy Mine copper to make a total of 267 tons of pure copper. Most of this copper was packed in barrels.

The cargo also included 175 tons of iron ore, 200 ships-knees, 250 half barrels of fish, 27 rolls of leather and 10 tons of miscellaneous freight.

At 8 p.m. on August 9th the Pewabic was six miles southeast of Thunder Bay Island. Just as the sun was about to set the propeller-driven ship Meteor was seen six miles to the south. Both ships were owned by the Lake Superior Transit Co. The usual signals were exchanged and the Pewabic altered her course to pass. For some unknown reason the Meteor turned in the same direction and struck the Pewabic. The Meteor's bow cut halfway through the Pewabic which sank four minutes later.

About 75 passengers and 28 of the crew were saved. Because the passenger list went down with the ship the exact number of passengers was unknown. The total number of people lost has been estimated to be as high as 125.

The Pewabic was built in Cleveland, Ohio, by Peck and Masters and was launched in October, 1863. She was 200 feet long, had a beam of 31 feet and a hold about 12 feet deep. The Pewabic had a center arch that was unique to vessels of that period

which was designed to give the hull additional longitudinal strength.

The Pewabic had skylights, stained glass windows, marble table tops, silver serving ware and cabins decorated with ornate woodwork. She was considered to be one of the finest ships on the Great Lakes at the time.

The Pewabic was known to be in about 160 feet of water six and a half miles southeast of Thunder Bay Island. Unsuccessful attempts to recover the Pewabic's valuable cargo of copper ingots were made in 1882, 1891, 1895, 1897, and 1917. Most of these attempts were unsuccessful because of the inadequate equipment available previous to 1897.

In 1897 the American Wrecking and Salvage Co. of Milwaukee, Wisc. working under contract for the Aetna Insurance Co. chartered the steamer H. A. Root. They installed a new invention known as the Smith Diving Bell and other pieces of related diving equipment.

On June 18, 1897, the first barrel of copper, weighing 1500 lbs. was recovered. The H. A. Root arrived in Milwaukee on September 29, 1897, with 50 tons of copper, some other freight and parts of the steamer Pewabic.

The 50 tons of copper recovered was worth only \$11,000. After paying the insurance company its share, the American Wrecking and Salvage Co. didn't have enough revenue to cover its costs. However, the expedition was highly successful in proving that a diving bell could be used to recover a cargo in deep water.

The Pewabic was forgotten until the copper shortage of World War I. In 1917 an expedition organized

and led by Margret C. Goodman of Detroit found the wreck. Many personal effects belonging to passengers were recovered by the divers. Also found were door locks and keys and the steamer silverware.

Although many had looked for it, the Pewabic remained untouched until it was relocated by Gregory J. Busch on July 21, 1973. He found the Pewabic was mostly intact.

A permit was obtained from the Dept. of Natural Resources. This insured that all artifacts of historical interest that were recovered would be given to the State of Michigan. The Busch Oceanographic Equipment Co. also agreed to provide color motion picture films, slides and two copper ingots for public display. Through this agreement the State would receive valuable services and artifacts at no cost to the State.

The Busch divers found the wreck to be setting on an even keel in about 180 feet of water. The first 50 feet of the vessel from the bow toward the stern had been destroyed. The stern section was completely intact. The aft 50 foot section of the hold was intact but almost empty. The cargo must have shifted toward the bow when the vessel sank, making a jumbled mess of iron ore, copper and wooden wreckage. The 1897 and 1917 expeditions had cleared away the wooden wreckage and left a rock pile consisting of iron ore, coal and copper.

from a Busch Oceanographic Equipment Co. publication.

The Busch Co. divers recovered copper ingots from the wreckage of the Pewabic which they have been selling. Frazier bought one of these ingots which happened to be one from the Pewabic Mine. It was on display at the Upper Peninsula show held this past August.

SOLDERLESS JEWELRY

by Lyndon Fallat

Solderless wire jewelry uses square section, tempered gold and silver wire to create jewelry such as rings, brooches, pendants, bola ties, and any other form the hobbyist wishes to create.

The making of wire jewelry is easily adaptable to apartment living as it requires a minimum of working and storage space. Very few tools are required to create a beautiful piece of jewelry. The following tools are a must: flat nose pliers, chain nose pliers, needle or round nose pliers, diagonal cutters, pin vice, ring mandrel, pocket knife, six-inch ruler, indelible pencil, light source. It should be noted that all pliers should be the smooth jaw type to prevent marring the surface of the wire. The above named tools and wire can be purchased through the various suppliers listed in the Lapidary Journal.

There are several excellent books that illustrate the making of wire jewelry step by step. A few I have found helpful are: Gold and Silver Wirecraft, by Lee Lukachic and William Wintucky; Gold Wire Craft, by Jim Tow; Solderless Jewelry, by Carol Oliver; Letters and Names in Gold and Silver Wire, by William Wintucky.

Now the interested craftsman is ready to go! With the purchase of some wire and the above mentioned tools, a new world is opened for the creative jewelry maker.

MINERAL PIGMENTS FOR PAINTING

Here are some of the minerals which may be used for pigments

for painting pictures in stone. The minerals are crushed to the desired consistency.

Blue--Azurite, chrysocolla, lapis lazuli, shattuckite, turquoise, kyanite.
Green--Malachite, green marble or onyx, serpentine, epidote, chlorite.
Yellow--Limonite, orpiment, sulphur, mimetite, barite, vesuvianite.
Red--Hematite, cinnabar, geothite, pipestone, rhodochrosite, realgar, jasper.
Black--Coal, tourmaline, basanite, graphite, pyrolusite.
White--Gypsum, quartz, calcite, talc, meerscham, kaolinite.

via The American Federation
 Newsletter

PEWTER CLASS ANYONE?

by Dorothy Tubbs

Many of you saw the demonstration at our show that was put on by Wayne Wilson. How would you like to have some lessons on working with pewter?

Pewter is less expensive than silver which has increased in price a great deal during the past few years. It also looks as if pewter can be cast easier than silver and copper.

If any of you are interested, please contact Frazier or me and we will see if Wayne will conduct a class for us when he returns from Florida in the Spring. (Phone 475-4954)

IRMC DUES ARE DUE.

Individual membership \$2.00 yearly
 Couple membership \$3.00 yearly
 Junior membership \$1.00 yearly
 Additional initiation fee for new members \$1.50

PLEASE PAY BY APRIL 1, 1977

CLUB BUSINESS MEETINGS ARE IMPORTANT!

by Dorothy Tubbs

At the beginning of the year it was decided to have two club meetings each month. One would be a business meeting on the first Friday evening of the month (Thursday evenings from May through October to provide long weekends for rock hunting or trips.) The other meeting would be held on the third Sunday afternoon of the month from October through April as before. However, there would be no business transacted at these Sunday meetings. There would be a program and time for meeting in special interest groups such as Lapidary, Mineral Identification, Micro-Minerals, etc. From April until October or November monthly field trips would replace the program meetings.

This was done in response to the complaint that too much time was spent on business at the regular meetings and there wasn't enough time for programs and interest groups.

Since starting this schedule, attendance at the business meetings has not been good. The business meeting is not a Board Meeting limited to club officers. It is open to all members of the Ishpeming Rock and Mineral Club. At this meeting important decisions are made. As a member your presence is needed to help make the right decisions. It is not good for our club or any other organization to have only a few members making decisions for the whole club. However, this seems to be true in many organizations at the present time. Some of you have a good excuse during the winter when driving long distances is often difficult. But the business meetings are held once a month during the whole year.

I wonder what has happened to the pioneer spirit of our forefathers? They would never miss a town meeting, a congregational meeting of their church or a school board meeting, especially when the agenda of the meeting included making important decisions.

Will you be at the next business meeting of the Ishpeming Rock and Mineral Club? The date is Friday, February 4th, 7:30 p.m. at the Bothwell Middle School in Marquette.

CALENDAR OF IRMC MEETINGS

- January 7--Business meeting, 7:30 p.m.
16
- January (Sunday)--Program meeting, 2:00 p.m.
- February 4 (Friday)--Business meeting, 7:30 p.m.
20
- February (Sunday)--Program meeting, 2:00 p.m. (Silent Auction)
- March 4 (Friday)--Business meeting, 7:30 p.m.
20
- March (Sunday)--Program meeting, 2:00 p.m.
- April 1 (Friday)--Business meeting, 7:30 p.m.
17
- April (Sunday)--Program meeting, 2:00 p.m.

PETRIFIED WOODS

Petrified wood is formed when plant material is replaced by a mineral. It is a slow process of underground mineral-bearing water gradually depositing various minerals in place of each fiber of the wood. The slow change leaves the original shape unchanged.

South Central Federation
Newsletter, via The Rock Trail

MARBLE

Marble is a crystalline rock composed mainly of metamorphosed dolomite or calcite or in combination. Pure marble is white, but with uniformly distributed impurities there results a uniform coloration. The colors range from black through grey to white, from greenish-black to light green, and from medium brown to green.

South Central Federation
Newsletter, Sept. & Oct.
1976, via The Rock Trail

ALABAMA MARBLE

by Dorothy Tubbs

On a field trip to Alabama a number of years ago our group visited a marble quarry. Much of the marble in this quarry is pure. We saw men working at a conveyor belt sorting the pure white marble from that which was discolored.

The white marble was sent to a building where it was crushed and ground to a very fine powder. We were given a typed sheet of 8½ by 11 inches on which was listed the products containing their white marble. Two common uses were in toothpaste and in baking powder.

The colored marble was very lovely. It was white with veins of pink, green, grey, black, yellow or brown. These were sent to a different building for grinding and polishing.

There was another form of white marble which contained pyrite inclusions. This kind made pretty specimens for collectors.

We were permitted to do some hunting in their piles of rejects. Here we found some lovely polished pieces in a variety of colors.

The marble found in Alabama is much like the well-known Georgia marble. The State capitol building in Montgomery is built largely of white marble. A trip to one of these quarries is an interesting experience.

HAVE YOU SEEN?

by Faustin V. Anderson

We have been to Ontonagon and White Pine many times over the last three years. There are lots of old mines and good beaches where you can fish from shore or look for agates. What surprised me most was the first time we picked stones from the beach. Some were tan with deep blue inside and others were dark brown, take a nice polish and show specks of copper after they are polished. When I found this out, three weeks later I wanted to go right back up there.

At White Pine there was a stamp mill operating back in the eighties. Some of the crushers are still there (1975). Everyone in our club that I've asked has said they've never heard of it. To make you wonder what you are seeing, as you come into White Pine take a cross street going south all the way to the end. There may be more than one, so keep trying--it's only about one block in. You will see a deep ravine with a lot of cement work on the other side. Now to find out what it is, go all the way around, almost to the fire hall, turn left and you will come to the Mall. To make it easy, if you should be at the Mall, coming out go straight across the road, in about a half block. These directions are as I found the mill giving me a view to remember that you will not get by going directly to the top.

Take your camera along and get a picture from the White Pine side. You will be glad you did. Good luck!

HUGE ORE DISCOVERY IN WISCONSIN

The Exxon Company in an Associated Press release in September confirmed an enormous zinc-copper discovery in Forest County, Wisconsin. Experts say the deposits rank among the largest in North America, and perhaps the world. Extensive explorations have been concentrated near Crandon. Test borings indicate that the minimum size of the ore body is 60 million tons, and it could be much greater. Borings are continuing. Geologist Meredith Ostrom said borings so far have been made in a line about a mile long and that the ore is located from 200 to 1675 feet below the earth's surface.

Forest County borders mineral rich upper Michigan. Much of the County is covered by Nicolet National Forest. There are many beautiful lakes in the County. Other copper deposits are being developed in northern Wisconsin by the Kennecott Copper Company near Ladysmith in Rusk County. Copper and iron have previously been mined near Lake Superior in Wisconsin's Bayfield, Ashland, and Iron Counties. Nephrite is another mineral reported in upper Wisconsin.

via The American Federation Newsletter, December 1976

WHAT IS THE ROLLIN' ROCK CLUB?

With members all over the United States, in Canada, Australia, New Zealand and other foreign countries, the Rollin' Rock Club is the largest gem and mineral hobby club in the country and the only world-wide club.

It was organized in 1955, over twenty years ago. According to its Constitution, "The purpose of this Club shall be to promote

the enjoyment of rocks and bring about a closer association of the Rockhounds. . . ." At that time there were many Rockhounds living in small towns and outlying districts, too far from organized Gem and Mineral Clubs to be active members. As "orphans" they were denied the privilege of exhibiting at the Federation shows because of no affiliation with a member club. Membership in the RRC was the solution.

Today most of our members belong to their local Gem and Mineral Club, so the main objective of the RRC is to "promote the enjoyment of rocks and bring about a closer association of the Rockhounds" all over the Country.

The RRC Newsletter is the media of contact among members. It contains Club news, letters from members, nodule sketches on new members, and a membership directory. All members have two things in common--an interest in Earth Science and a friendly attitude toward their fellow rockhounds.

Thru the Newsletter, thru traveling and thru correspondence, members get to know each other all over the country. There are members who are enthusiasts in every phase of the hobby. The Newsletter is the means of those members with common interests "finding" each other.

The Rollin' Rock Club is affiliated with the South Central Federation of Mineral Societies and the American Federation of Mineralogical Societies. None of its officers receive any pay or traveling expenses. Yearly dues are \$5.00 for a single membership and \$8.00 for a husband and wife in U.S.A. and Canada. For other countries the dues are \$6.00 and \$9.00. We would like to have you join us.

from the RRC Newsletter,
December, 1976.

Membership in the Rollin' Rock Club is wonderful if you plan to do much traveling. It is a way of meeting fellow rockhounds in the areas you visit. They would be glad to give you information about the materials available in that area and where to find them.

If you are interested in joining the RRC, contact Frazier Tubbs.

NOTES FROM YOUR CLUB LIBRARIAN

A new addition to our library is a "pamphlet library." These short articles have been clipped from old exchange bulletins, categorized and filed for your convenience.

We hope to have the "pamphlet library" ever-expanding; and we need your help--with additional articles and your constant use of it. If you find an interesting article you would like to share with our membership, let us add it to our library.

A special thank you to Edith Anderson for helping us find so many articles to start.

Please try our new library section and give us your comments. We would like to know if we should continue it in the future.

Ernie Johnson

ROCKIN' AROUND

Edith M. Anderson

Nineteen seventy-six with all its Bicentennial Celebration is behind us and we are ready for seventy-seven and a year of good rock collecting.

The Jaspilite lost its editors last year and therefore a couple issues were not published, but

with a new staff and your cooperation let's get busy and make up our loss. This is your Bulletin and it needs you.

We had super field trips during 1976 and they were a credit to Bob Phillips, Chairman, also Laurence Sain who led the Labor Day trip.

Our U.P. show and auction with field trips and swapping was a big success. Many thanks to our visiting friends who wrote such complimentary articles about our show in their Bulletins. We will be glad to welcome rockhounds traveling through when we have our big swap this summer.

The Christmas banquet was wonderful. Those ladies know how to cook a good meal and make their guests comfortable. Many thanks to them. The decorations were beautiful and the door prizes a lot of fun. It was so good to see members that we hadn't seen recently. The visiting and good fellowship of rockhounds getting together can't be equalled.

Illness kept many of our members away from meetings and field trips this past year, and we hope and wish them all good health in 1977.

We are trying a change in our meetings and hope you will all try to comply and attend them all. We are still meeting at Bothwell Middle School but are having our business session on the first Friday of the month--starts at 7:30 p.m. and everyone is welcome to attend. Our regular meeting will be at 2:00 p.m. on the third Sunday as usual at which time we will enjoy a program and brag table or anything of real interest to the hobby. The program chairman would like suggestions of what you would like for programs. We have a suggestion box where you can drop in questions or ideas making our meetings more educational and interesting.

. . .there's more. . .

Have you signed up to be a hostess this winter? The chairman would like volunteers.

We were pleased to welcome Marian and Nelson Short to our Club. They are members of the Livingston Club. They have left Ishpeming for the winter, and we will be delighted to welcome them back again.

Fred and Doris Garceau have decided not to go to Florida this winter so we'll be expecting them at our meetings.

Did you read the interesting story about one of our members, Mrs. Fred Masters of Ishpeming who had suffered a stroke last spring and now with rehabilitation is slowly getting better and is able to work on her rock jewelry. Her determination to overcome her affliction is to be commended and we hope to see her able to be with us soon.

OBITUARY

Our sympathy is extended to Olive Sain and her family in the loss of Olive's mother, Mrs. Mary Kuehl of Bruce Crossing, who was killed in an automobile accident on November 13.

Also to the family of Mrs. Helmi Osterberg who passed away on January 2, 1977, at a hospital in New York. She was a member of our club for many years. She contributed to our programs with talks and exhibits of beautiful jewelry made by her brother in Finland of rocks from Michigan. A book for our Library purchased in her name will be dedicated to her memory.

Edith Anderson

SUPERSTITIONS AND STONES

AGATE: Different colors of agate were supposed to protect one against different forms of harm. The agate was used to banish fear, protect children from falling, and to harden tender gums.

AMBER: Amber was often worn to protect the person from toothache. It was supposed to ward off witches. It is supposed to be an effective charm for Leo people.

AMETHYST: Amethyst comes from the Greek meaning "Not drunken." It is the gem of chastity, and a symbol of love, truth, suffering and hope.

AQUAMARINE: This stone is reported to have protected people against accidents, particularly when traveling.

BERYL: In the Middle Ages, beryl was thought to cure people from laziness, make them unconquerable, and protect them against gossip.

BLOODSTONE: In ancient times, this stone was supposed to cure hemorrhages and to help heal wounds. It is said that if one wears a bloodstone around the neck while asleep, it's supposed to bring dreams of the future.

CARNELIAN: Considered to promote health, long life, and good fortune. It is also believed to enrich speaking voices.

CHALCEDONY: A guard against illusion and help to overcome lawsuits.

COPPER: If worn as a bracelet or arm-band, thought to guard against arthritis. (This is a modern belief widely followed.)

CORAL: To avert the spell of the Evil Eye. It should turn pale if the person wearing it is ill, returning to its former color when that person

regains health. A good talisman for Taurus and Libra people.

CRYSTAL: This is directly associated with the gift of prophecy and is used in the making of crystal balls.

DIAMOND: Considered to protect the wearer from the Evil Eye and witchcraft. The Hindus believed that only the best quality diamonds should be used for curative purposes, as to use inferior diamonds was to bring on even greater illness. Dreaming of diamonds is symbolical of success, wealth, happiness and victory.

EMERALD: Often used as antidotes for poisons and a deterrant for possession by demons. An emerald amulet is supposed to bring the wearer wealth, good fortune and the ability to foresee the future.

GARNET: To keep away bad dreams, skin diseases and wounds.

IRON PYRITE: Reputed to protect sailors--especially from crocodiles.

JADE: Jade is the stone of Libra. All the virtues of Man are supposed to be personified by jade.

JASPER: Should be used as an amulet to guard against dysentery, nightmares and hallucinations.

LAPIS LAZULI: Ancient physicians used Lapis to cure eye trouble. It was also considered a cure for melancholy. It was highly prized and worn by Pharaohs and high priests of ancient Egypt.

MALACHITE: Ancient Egyptians considered this to be useful in the treatment of cholera and rheumatism. It is the symbol of the Moslem religion.

MOONSTONE: To know the future, it is suggested that a person hold

a moonstone in their mouth under a waning moon, while quite alone. It was considered a charm against cancer and other illnesses and capable of arousing passions.

OPAL: In the ancient world, the opal was supposed to give proper direction to thought if held between the eyes. If held in the left hand and gazed upon, it favored one's desires. It is described as the "gem of the Gods." It is a stone of love, but is a bad stone for faithless lovers.

PEARL: Inspires love and truth. To cure irritability, grind into a powder and drink in milk. Lusterless pearls are thought to be unfortunate.

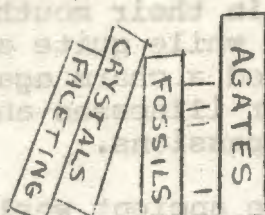
RUBY: It is considered more fortunate to wear a ruby on the left hand or left side of the body. To dream of a ruby means to have success. It is supposed to maintain friendships and be a personification of wealth.

SAPPHIRE: This stone is the symbol of purity. It is a fortunate amulet for lovers. It is especially effective for those born under signs of Libra, Virgo, and Aquarius.

TOPAZ: Topaz comes from the Sanskrit word meaning heat. Its power is said to increase when the moon grows fuller. It banishes fear of the night and death; protects its owner against epidemics and soothes wild passions.

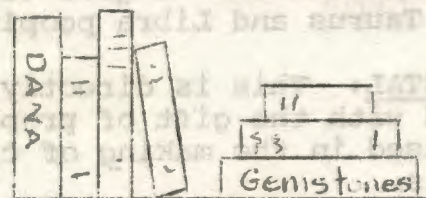
TURQUOISE: This is the stone of Venus, therefore a talisman of love. It protects against misfortune and danger, but should not be worn without first being repolished and reset in a different form if it once belonged to someone who died.

by Cinci Probst
Via Pick and Dop Stick and
Rock Trails.



READ GOOD BOOKS

IRMC Library



The IRMC Library has the following books to loan to Club members. Library books may be picked up at any regular meeting of the Club and returned the following meeting.

I. GENERAL INFORMATION

1. Cleaning and Preserving Minerals by Richard M. Pearl. Purchased in memory of Ed Carlyon by the Club. Covers stability and care of minerals as well as how to clean them with the proper procedure. 86 pages.
2. Handbook of Crystal and Mineral Collecting by William B. Sanborn. Purchased in memory of Bill Armstrong by the Club. This guide tells you how and where to look for minerals and crystals as well as how to clean, prepare, catalog and display your collection. 81 pages.
3. How to Know the Rocks and Minerals by Richard M. Pearl. An illustrated field guide to more than 125 important minerals and rocks. 192 pages.
4. The Rock Book by C. L. Fenton and M. A. Fenton. Popular and authoritative book on rocks of the world. On loan to IRMC Library by George Bell. 357 pages.
5. Rocks and Minerals by H. S. Zim and P. R. Schaffer. A nicely illustrated, easily used identification guide for beginners. 160 pages.
6. Rocks and Minerals of Michigan by Department of Natural Resources and Hillsdale Publishing Company. Information includes origin, location and basic uses of rocks and minerals found in Michigan. Donated to IRMC Library by Trudgeon's Done-Roamin Resort. 44 pages.
7. The Story of Rocks and Minerals by D. M. Seaman. A guide for the young collectors. 100 pages.
8. Minerals Recognition by I. Vanders and P. Kerr. Intended for the mineral collector or non-professional reader with some interest in mineralogy, this book provides an excellent introduction to the world of minerals and mineral science. 316 pages.

II. ENCYCLOPEDIAS AND REFERENCE BOOKS

1. The Collector's Encyclopedia of Rocks and Minerals by A.F.L. Deeson. Comprehensive encyclopedia of the world's rocks and

minerals compiled specifically with the collector in mind. Donated to the Library by A. V. Mullaly in memory of Mrs. Tapola. 288 pages.

2. Encyclopedia of Minerals by W. L. Roberts, et al. Provides chemical, physical, crystallographic, X-ray, optical and geographical data on over 2,200 species. Included are nearly 1,000 full color photographs. 693 pages.

3. Dana's Textbook of Mineralogy by Edward S. Dana. Advanced technical reference considered as the ultimate authority by most mineralogists. 851 pages.

4. Gemstone and Minerals Data Book by J. Sinkankas. A compilation in one volume of hard-to-find data, formulas, etc., for over 1,000 mineral species. 346 pages.

5. Rockhounds' Pronouncing Dictionary by Dorothy and Marshall Huey. An A to Z listing of minerals and related terms and how to pronounce them. 51 pages.

6. 1975 Glossary of Mineral Species by Michael Fleischer. Purchased in memory of Charles Tapola by the Club. A to Z listing of minerals along with their chemical formulas. 145 pages.

III. AGATES

1. The Agates of North America published by Lapidary Journal. (soft cover) A compilation of articles written by various authors and appearing in the Lapidary Journal magazines through 1966. 94 pages.

IV. CABACHONS

1. A Checklist of Cabachon Gem Materials and Their Lapidary Features by J. L. Cunningham. (soft cover; 2nd edition) A practical, non-technical quick reference guide along with 23 photos of jewelry, cabs and slabs. 48 pages.

2. Advanced Cabachon Cutting by Jack R. Cox. Shows you how to cut special shapes, star gems, and cat's eyes. Special chapters on opal, jade and assembled stones. Well illustrated. 64 pages.

V. CRYSTALS

1. Color Treasury of Crystals published by Crescent Books. Purchased in memory of Mrs. Selma Tapola by the Club. Covers short description of the shapes of crystals. Beautifully illustrated with many pages of outstanding crystals. 64 pages.

2. Color Underground by L. Boltin and J. S. White, Jr. A picture book of mineral crystals to introduce the reader to the classification of crystals by symmetry. 60 pages.

VI. FLUORESCENT MINERALS

1. Ultraviolet Guide to Minerals by S. Gleason. (soft cover) A guide to collecting and identifying fluorescent minerals complete with mineral identification charts. 240 pages.

VII. FOSSILS

1. Classification and Common Names of Fossils by AFMS.
2. Fossils for Amateurs by Russell P. MacFall and Jay C. Wollin. Purchased by the Club in memory of Floyd Mortenson. A practical handbook that tells you how to find, collect, classify, prepare and exhibit fossils. It explains simple and advanced techniques of cleaning fossils to bring out their distinctive features. There is a chapter on microfossils and how to study them. Also included is an extensive map section showing the geological structure of each state. 341 pages.
3. Midwest Fossils by Dale Douglas. Donated to the Club Library by Rock and Gem Jewelry, Adrian. Covers the why and how of fossil collecting as well as descriptions of various types of fossils. Well illustrated in black and white. 80 pages.
4. Tales Told by Fossils by C. L. Fenton. General information on fossils along with geologic time chart.

VIII. GEMS

1. Gem Cutting by J. Sinkankas. Packed with useful information and written in a style that is very easy to understand. It covers basic principles, methods, equipment and supplies that will help the amateur. 297 pages.
2. Gems and Jewels by Golden Press. On making jewelry pieces of gem materials. Includes history of jewelry industry. 80 pages.

IX. GEOLOGY

1. Field Geology by Frederic Lahee. Donated by Carl Gutman. Complete textbook concerned with recognition and identification in the field; also, how to use topographic maps and geological surveys. 883 pages.
2. Geology Made Simple by W. H. Matthews, III. (soft cover) A comprehensive course for self-study and review. 192 pages.
3. Geology of Michigan by J. Dorr, Jr. & D. Eschman. Purchased in memory of John Jacobson by the Club. Offers a very thorough story of Michigan geology. 476 pages.
4. Metamorphism of the Biwabik Iron Formation by B. M. French. Report describing changes in mineralogy and texture from unaltered taconite in the main Mesabi district to highly metamorphosed

taconite in the eastern Mesabi district, Minnesota. Donated by Carl Gutman. 103 pages.

5. Observer's Book of Geology by I. O. Evans. Donated by Carl Gutman. The author describes the rocks, minerals and fossils in British geology so that the observer may be aided in recognizing things he sees. 267 pages.

6. Principles of Geomorphology by Thornbury. Donated by Carl Gutman. Advanced textbook on geomorphology based on the author's teachings at Indiana University. 618 pages.

7. Principles of Stratigraphy by Dunbar and Rodgers. Donated to the Club by Carl Gutman. Graduate course textbook on the study of stratified rocks.

X. TUMBLING AND POLISHING

1. Rock Polishing for Everyone by John Willhammer. Donated by Rock and Gem Jewelry, Adrian. The purpose of this booklet is to acquaint the beginner with the fundamentals of rock polishing. 35 pages.

2. Tumbling Gem Stones by E. C. Gilman (soft cover). Simplified methods and procedures of tumbling gem stones. 55 pages.

XI. JEWELRY

1. Gold Wire Craft by Tow. Purchased by the Club in memory of Mrs. Laura Maynard. Step-by-step instructions with how-to-do photos lets the reader begin creating his or her own jewelry from square gold wire. Shows what to do, what to use to make rings, pendants and all the other jewelry pieces.

2. Jewelry Making Step by Step by E. E. Joachim. Purchased in memory of Jim Hudson by the Club. The primary purpose of this book is to tell you how to make jewelry rather than what to make. It explains in detail how to make a cabachon ring as this one piece combines more of the basic procedures than are encountered in making any one simple piece. It also describes making various types of settings, various processes, decorations and finishes for jewelry and ordering tools and supplies. The book also contains a set of tables, a chapter about metals and a table of weights, measures and gauges. 287 pages.

XII. JUNIOR MEMBERS

1. Marquette County Bicentennial Color Book by Mac Frimodig. Donated by Ray Anderson. Picture book of Marquette County history.

2. Tell Me Why by Arkady Leokum. A book of interest to both children and adults covering approximately 400 questions which children ask. Questions covered begin with "How big is the

universe?" and cover a multitude of general interest items, including some of rock and mineral hobbies, and concludes with a sweet note, "How is chocolate made?" 479 pages.

3. The Young Idea by Jay Farr. Donated by Rock and Gem Jewelry, Adrian. Reprints from Earth Science Magazines in booklet form of articles aimed at junior members. 40 pages.

XIII. MAGAZINES

1. Mineral Digest - Volumes I, II, III, IV and V.

2. The Bureau of Mines--Its Mission and Programs. Donated to the Library by the Bureau of Mines.

3. Bibliography of Earth Science Materials - MWF (soft cover) A listing of books available on the earth sciences. 74 pages.

4. Earth Science Magazine, May-June, 1975 issue. Donated to the Club by Mrs. Helen Mortenson in memory of Floyd Mortenson. Contains an article entitled "Selenite Crystals of the Bristol Mine" by Floyd N. Mortenson.

5. The Marquette Mineral District of Michigan by Burton Boyum. Donated to the Library by Cleveland-Cliffs Iron Company. Contains detailed information and maps of the iron ore district of Michigan. 62 pages.

6. Lapidary Journal Magazine, September, 1976 issue. Donated to the Club Library by Lapidary Journal Magazine. Contains several timely articles.

7. Regional and Local Uniform Rules and National Trophy Rules--AFMS--November, 1970, edition.

8. Exhibitors' Manual--AFMS--1969 Revised Edition.

PAMPHLET LIBRARY

The following categories are presently in our pamphlet library. Each pamphlet consists of articles from MWF member clubs's bulletins.

1. Tumbling

2. Lapidary

A. Hand Polishing

B. Cabachons

C. Safety

D. Shop Hints

E. Lapping Specific Minerals

F. Making Shop Equipment

3. Hints on Cleaning Specific Minerals

4. Aids to Help You Exhibit Your Minerals
5. Projects
 - A. Prospector's Jacket
 - B. Poly Paste and Agate Lamps
 - C. Making Silver Earrings
 - D. Northwest and Midwest Display Case Plans
 - E. What is a Tack Box and How to Make It.
6. Marquette County
 - A. "More Than 100 Mines Reflect History"
 - B. "14 Years of 24 Karat Mining"
 - C. Marquette County Map (DNR)
 - D. Miscellaneous
7. Copper Country
 - A. On Collecting and Collecting Sites
 - B. History of Copper Industry
 - C. "Ancient Mining on the Shores of Lake Superior"
8. Collecting Sites (filed by state)
9. Minerals
 - A. A to K
 - B. L to Z
10. Fossils and Shells
 - A. Fossils
 - B. Shells
11. Geology
12. General Information
 - A. "Copper Mummy"
 - B. AFMS Code of Ethics
 - C. Mineral Formulas
 - D. "Time Upside Down"
 - E. Miscellaneous

* * * * *

HOW TO GET RID OF EXTRA ROCKS

1. Fix the chuckholes in your driveway with them.
2. Throw them at bill collectors and door-to-door salesmen.
3. Take them to club displays and go off and leave them.
4. Put them in your tumbler with a double dose of course grit and forget them.
5. Throw them over the fence into your neighbor's rock garden.
6. Fix up a big label "This gem material insured by Pinkerton" and leave them unwatched.
7. Donate them for grab bags (especially for the 1976 show).
8. Best of all--Don't take home too many in the first place when you are collecting.

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