

Oct 78

THE



J A S P I L I T E

Affiliated with the Midwest Federation  
of Mineralogical and Geological Societies



# Midwest Federations 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 the Editor, Haydon Peterson, Parrot Printing, 2125 Forest Ave., Des Moines, Iowa 50311

September 1978 - Issue No. 187

## Rare II: What can we do?

By June Culp Zeitner

We have heard and read much recently about RARE II. Just what is it and how does it effect our hobby? It is the ROADLESS AREA REVIEW AND EVALUATION. It is the Forest Service plan for wilderness and non wilderness areas . . . for the uses of public lands. It concerns 62 million acres. Many of the areas in this review are prime rock hunting areas. If they become wilderness they will be cut off to all generations of rock collectors permanently.

However, in a thorough and excellent report, the Forest Service makes it clear that they want OUR opinion. They want the public input. They ask for letters. At a series of Open Houses in Region II (which includes Colorado, Wyoming, and South Dakota and others) the Rangers were asked questions from people representing many interests. I attended these meetings, and asked questions, not as Associate Editor of AFMS Newsletter, but as a concerned field collector of quite a few years.

I found out that the rock collector input has been near the bottom so far. Most of the letters have been in support of total wilderness by radical types who are highly organized and have money available for their campaign. In the state of Colorado alone there are 400 committees soliciting 10,000 letters for 100% wilderness. Out of over 60,000 members of AFMS it wouldn't be too much to hope for 6000 letters would it?

The reports are in the form of thick books; The white "Draft Environmental Statement", and the black "RARE II" plans for each Forest Service Region. There are 10 alternatives given. "A" is no change. "B" is for everything under discussion to remain non-wilderness. "J" is for ALL tracts to be WILDERNESS. The rest are in between.

The plan is nation wide. The disposition of each of the areas under study is specifically planned for under each of the 10 proposals. I studied these all thoroughly, not just for my state and neighboring states, but for all states concerned. It is apparent that what is best for one state will not be good, at all for its neighbor in the same region . . . that is as far as the rock hobby is concerned. For example for South Dakota "D" would give Wyoming 14 NEW WILDERNESS areas putting 29% of that state's public land in the wilderness category. And many of the disputed Wyoming areas would be placed into further planning, which means they would probably be treated as wilderness. Friends in Arizona say they would go along with "G" for their state.

If the rock hobbyists of each state lend their voices to 9 alternatives, our vote will be so broken up as to be meaningless. All of the instigators and supporters of the preservationist wilderness systems will vote solidly for "J" . . . total new wilderness. There is a coalition of 10 environmentalist groups working against our interests. The only way we can counteract this is to support the opposite, which is "B" . . . no new wilderness. Most of us are moderate, and we are willing to compromise, and we certainly hope that the final answer is moderate, but we can't negotiate from a position in the middle. We have to negotiate from one end or the other, and for our hobby the only answer is NO WILDERNESS.

There are already a lot of wilderness areas. Very few new ones are actually needed. The rangers here admitted that the Badlands National Monument has the same ecosystem as the proposed grasslands which may be withdrawn.

The Forest Service is neutral, but some Rangers say that the wilderness systems have some drawbacks even for them. For example, the pine beetle threatens large sections of forest land in Colorado and South Dakota. If wilderness areas are invaded with this beetle the Forest Service cannot fight this as they would like.

The wilderness areas means that we cannot go to our collecting areas and we cannot collect if we do get there. Wilderness areas are seen by less than 2% of the people of this nation. We cannot take our families to wilderness areas. Old people or children

*Continued on back page...*

## Welcome new members

### CLUB MEMBERSHIP

Mid American Paleontology Society  
Richard T. Johannesen, President  
1508 West 38th Street  
Davenport, Iowa 52806  
joined 6-10-78

### INDIVIDUAL MEMBERSHIP

Patrick J. Reily  
7030 Brantford Road  
Dayton, Ohio 45414  
joined 6-10-78

## Cedar Rapids show and convention

Due to copy and printing deadlines necessary to have this September issue reach the member clubs in time for inclusion in their September bulletins, a complete report, with pictures, of the August 11-13 Cedar Rapids show and convention will be included in our October issue.

## Finds diamond

The Associated Press reports an elderly Deer Park, Wash., woman found a four-carat diamond worth \$2,000-\$3,000 at Crater of the Diamonds State Park, park Superintendent Jim Cannon said.

Cannon said Selma Phelps, about 60, found the diamond on the ground. It was a quarter inch in diameter and a pearly white color, he said.

Forty-two diamonds have been found at the park in recent months, Cannon said.



Continued from front page.....

or people with a heart condition or arthritis cannot see wilderness areas. Only young strong back packers will ever have any use of these vast areas. People who don't agree that there are already enough areas for the back packers simply haven't been out west.

An area does not have to be wilderness to be preserved. Here in the Black Hills in a ten minute walk in a nonwilderness area I can be entirely away from sight of the road. I can be surrounded by dozens of species of wild flowers, I can see deer, squirrels, chipmunks, porcupines, and sometimes elk and mountain goats and antelope. I can hear hundreds of bird calls. And this in an area which has been settled for 100 years, and hear where 2 million people a year drive by on their way to Mount Rushmore.

What we can do to SAVE OUR COLLECTING AREAS is to write letters at once . . . deadline is October 1 . . . to the nearest Forest Service Office telling in a few words why we favor alternatives "B" . . . why we wish that the proposed areas remain non-wilderness. Be polite and to the point. Write as a private citizen and a rock and mineral collector, just as I am doing. Your letter is needed and wanted. It doesn't hurt to send copies of your letter to your congressman. Here are the Forest Service office addresses.

New England and Northern Appalachian States, Lake States, Midland States; Eastern Region (R-9), 633 West Wisconsin Avenue, Milwaukee, WI 53203.

Southern Appalachian and Atlantic Coast States, Gulf Coast States and Puerto Rico, Ozark and Ouachita Highlands States; Southern Region (R-8), 1720 Peachtree Road, NW., Atlanta, GA 30309.

Central Plains States, Colorado, Wyoming; Rocky Mountain Region (R-2), 11177 West 8th Avenue, P.O. Box 25127, Lakewood, CO 80225.

Idaho, Montana, North Dakota; Northern Region (R-1), Federal Building, Missoula, Mt 59807.

Idaho, Nevada, Utah; Intermountain Region (R-4), 324 25th Street, Ogden, UT 84401

Arizona, New Mexico; Southwestern Region (R-3), Federal Building, 517 Gold Avenue, SW., Albuquerque, NM 87102.

California; California Region (R-5), 630 Sansome Street, San Francisco, CA 94111.

Oregon, Washington; Pacific Northwest Region (R-6), 319 SW. Pine Street, P.O. Box 3623, Portland, OR 97208.

Alaska; Alaska Region (R-10), Federal Office Building, P.O. Box 1628, Juneau, AK 99802.

## SCHOLARSHIP HONORARY AWARD WINNER



The Midwest has selected Prof. Donald R. Peacor, Professor of Geology and Mineralogy, University of Michigan, Ann Arbor, Mich. as the Honorary Award winner for 1978.

He will choose the schools and students who will receive grants from the Scholarship Foundation for the next two years as they pursue their advanced degrees in Earth Sciences.

Dr. Peacor is a native of Somerville, Mass. and received his B.S. from Tufts and his M.S. and Ph.D. in Crystallography from M.I.T. He has been at the Univ. of Michigan since 1962 and Professor since 1971.

## Wisconsin club wins All-American AFMS national trophy

A club in the Mid west Federation received the coveted American Federations National Trophy in the All-American contest awarded in Pleasanton, Calif. at the American Federations show and convention, July 28-30.

The Midwest club is the Wisconsin Geological Society, Milwaukee, Wis. In order to compete for this national trophy the club had already been a trophy winner in the Midwest Federations All-American contest. The Midwest Federation is pleased and proud to extend its congratulations to the Wisconsin Geological Society in attaining this honor.

Besides the Wisconsin club the Midwest Federations other four regional winners forwarded to the American Federation national contest were: Cedar Valley Rock and Mineral Society, Cedar Falls, Ia.; Ishpeming Rock and Mineral Club, Ishpeming, Mich.; Roehm Geology Club, Berea, Ohio; Duneland Rock Club, Inc., Gary, Ind.

(The Midwest Federation had the largest entry in the All-American contest. A total of 55 clubs entered and a complete list of these clubs will be printed in our October issue along with other winners and reports of the Midwest show and convention in Cedar Rapids, Iowa, Aug. 11-13.)

### BADGES

If you are an officer, chairperson or State Representative and your spouse has not yet received a name badge, please write to Mary McNamar, 3513 57th Street, Des Moines, Iowa 50310.

### FROM DIANE DARE DIRECTORY CHAIRMAN:

First, my apologies to all of you for the delay in getting the 1978 Directory to you. An extremely long delay from the printer, followed by the usual mail "service" caused the Directories to be delivered much later than we had intended. We hope this will NOT occur again.

Second, apologies to the four Indiana clubs who were somehow omitted from the Scholarship pages -- Peru Rocks & Minerals Society - 2800%; Duneland Rock Club - 1400%; Michiana Gem Club - 1400%; and Lawrence Co. Rock Club - 1000%.

And last, we have heard from several people whose Directories were missing pages. If this has happened to you, contact either me, 747 E. Blackford, Evansville, Ind. 47713, or Clint Heckert, 725 Stewart St., Elgin, Ill. and we will try to get the missing pages to you. Thanks to all of you for your patience.



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## *In the cameras eye at Cedar Rapids*



**HONORARY MEMBERS.** Elected to Honorary Membership in the Midwest at Cedar Rapids were Doris Kemp, South Holland, Ill., left, and Jean Reynolds, Clarendon Hills, Ill. Jean was also re-elected Federation Secretary.



**BULLETIN WINNERS.** Left. Midwest President Paul Good presents large bulletin Judges Award Trophy to Betty Myers, editor of the "Tully", Park Forest Earth Science Club. Right. Paul presents 1st Place Trophy in large bulletin contest to Willis Smith, editor of "The Geode", publication of McDonald Douglas Gem and Mineral Society.



### THE CEDAR VALLEY GEM AND MINERAL SOCIETY

has given the flags used in the Hall of States exhibit during the Cedar Rapids show to the Midwest Federation so they may be used at future Midwest Federation shows.

### AT THE COUNCIL MEETING

during the Cedar Rapids show, Truman Ramsell, Cedar Valley Rocks and Mineral Society, was elected to a one year term on the Nominating Committee, ending in 1979. Haydon Peterson, Des Moines, Iowa and Miles Smith, Frankfort, Kentucky, were elected to three year terms on the committee, ending in 1981.

### THREE NEW SLIDE PROGRAMS

will soon be available to Midwest clubs. The three winning programs in the AFMS Slide Contest are being duplicated and copies will be sent to Program Chairman in each of the six Regional Federations. Program titles are "The Geology and Minerals of the Rutherford Mines, Amelia, Virginia", "Introduction to Faceting", and "Creative Lapidary with Reforzado".

### PLEASE DO NOT ORDER

slide programs for use during July and August. This is vacation period. Only exception are programs needed for use at rock and mineral shows.

### WELCOME NEW CLUBS

The following two clubs have been accepted into membership in the Midwest Federation.

Wayne County Gem and Mineral Club, Rittman, Ohio. J. Raymond Chittum, President, 39 Orchard St., Rittman, Ohio. Accepted August 29, 1979

The Artesian Diggers Rock Club. Robert Lockhart, President, Route 2, Bryan, Ohio 43506. Accepted June 26, 1979.

### \$1,037.60 FOR SCHOLARSHIP

51 clubs of our Midwest Federation donated material for the silent auction at the Cedar Rapids show that brought a total of \$1,037.60 for the Scholarship Fund.

### COLUMBUS CALLING....

It's not too early to plan to attend the Midwest Federation 1979 Show and Convention in Columbus, Ohio, August 2-5.



# Bulletin contest winners

Here is the complete list of winners in the Midwest Bulletin Contest as announced at the Midwest Show and Convention, Cedar Rapids, Iowa, Aug. 10-13.

The entries this year were all exceptionally fine. The judge's job was an extremely difficult one this year. Great appreciation and thanks go to Loyal Gooch, Diane Dare, Katie Steinbrenner and Haydon Peterson, who served as this year's judges.

## LARGE BULLETIN CONTEST

Judges Award. One bulletin selected from all entered for this award. "The Tulley", Editor-Betty Myers, Park Forest Earth Science Club, Ill.

- 1st - "The Geode", Editor-Willis Smith, McDonald Douglas Gem and Mineral Society, Illinois.
- 2nd - "Sandscript", Editor-Marilyn McFadden, Duneland Rock Club, Inc., Indiana
- 3rd - "The Pick And Shovel", Editor-Evelyn Ulrich, Lincoln Gem And Mineral Club, Nebraska.
- 4th - "The Glacial Drifter", Editor-Arthur Ferguson, Grand Rapids Mineral Society, Michigan.
- 5th - "Beachcomber", Editor-Jan Huff, Lake County Gem and Mineral Society, Illinois.
- 6th - "The Opal", Editor-Rudy Loeffler, West Suburban Lapidary Club, Illinois
- 7th - "The Pyriter", Editor-Lyle Voas, Dallas County Rock Club, Inc., Iowa.
- 8th - "Escomo", Editor-Shirley M. Vebel, Earth Science Club of Missouri.
- 9th - "Rock Trails", Editor-Kathryn Wolcott, The State Line Gem and Mineral Society, Michigan.
- 10th - "Cedar Valley Gems", Editor-Mrs. Robert Blin, Cedar Valley Rocks and Minerals Society, Iowa.

## SMALL BULLETIN CONTEST

Judges Award: "The RockFinder", Editor-Fred Niebauer, Michiana Rock and Gem Club, Inc., Indiana.

- 1st - "Rock Talk", Editor-Tanis Diedrichs, Blackhawk Gem and Mineral Society, Iowa.
- 2nd - "Worthen Worthy Notes", Editor-Irma Bradley, Worthen Earth Searchers of Hancock County, Illinois.
- 3rd - "Pebble Prattle", Editor-Clif Backstrom, White River Gem Society, Indiana.

## MINI-BULLETIN

- 1st - "Flint Flashes", Editor-Helen Smith, Licking County Rock and Mineral Society, Ohio.
- 2nd - "Agateer", Editor-Herb Olmstead, Wisconsin, Madison Community Center Lapidary and Mineral Club.

## NEW BULLETIN EDITORS

- 1st - "Ozark Earth Science News", Editor-Elaine B. Beachler, Ozark Earth Science Club, Inc., Arkansas.
- 2nd - "Crystal Cluster, Editor-Jean Mueller, Des Plaines Valley Gemological Society, Illinois.
- 3rd - "Rockwood Rock Hound News", Editor-Robert P. Beckman, The Rockwood Gem and Mineral Society, Missouri.

## SPECIAL PUBLICATIONS

- 1st - "Materials for Cabachon Cutting by the Lapidary" by Marge Price, Duneland Rock Club, Inc., Indiana.
- 2nd - "How to Make and Present a Slide Program" by Les Petery,

Gem City Rock Club, Illinois.

3rd - "Reflections of a Rockhound" by Cathy McFadden, Duneland Rock Club, Inc., Indiana.

## ORIGINAL ARTICLE CONTEST (Adult Division)

- 1st - "Hazards in Arts and Crafts", Author-Kathryn Wolcott, The State Line Gem and Mineral Society, Michigan.
- 2nd - "Big Bend Country", Author-Jim and Norma Silva, McDonald Douglas Gem and Mineral Society, Missouri.
- 3rd - "Fossil Collectors - A New Feature", Author-Jim Fijalkiewicz, Des Plaines Valley Mineralogical Society.

## ORIGINAL ARTICLE CONTEST (Junior Division)

1st - "What Archaeologists Do!", Author-Beth Habbersett, The Park Forest Earth Science Club, Illinois.

## NEW MIDWEST BULLETIN EMBLEM

At the Midwest show and convention in Cedar Rapids, Aug. 11-13, a new bulletin emblem was shown and is permitted to be used by winning bulletins.

The emblem can be adopted to yearly dates and large, small and mini bulletins.



## Competitive exhibit winners

Harriet George, Uniform Rules Chairman, reports the 38th Annual Midwest Federation Convention and Show at Cedar Rapids had 48 competitive exhibits. 16 entrants earned eligibility to compete for AFMS trophies. (A score of 90 or above is required to be eligible for the Master Division and 70 or above for the Junior Division.) 14 of the 24 available Midwest Federation Trophies were awarded.

II Miniature Minerals: Patricia Carlon, Corn Belt Lapidary and Geological Society, Normal, Ill.

III Thumbnail Minerals: Glen E. Nicol, Shawnee Mission Gem and Mineral, Kansas City, Kans.

IV Micromount Minerals: Hazel Tarca, Shawnee Mission Gem and Mineral Society, Kansas City, Kans.

V Minerals, Junior Group: James A. Carlon, Corn Belt Lapidary and Geological Society, Normal, Ill.

VII Cabochons: Donale J. Voights, Chicago Lapidary Club, Chicago, Ill.

VIII Specialized Lapidary: Geraldine Palmer, ESCONI, Downers Grove, Ill.

X Lapidary Achievement, Junior Group: Greg Hiller, Roehm Geology Club, Berea, Ohio.

XI Fossils: Bruce Lauer, ESCONI, Downers Grove, Ill.

XII Fossils Jr. Group: Rich Baud, Roehm Geology Club, Berea, Ohio.

XIII Jewelry and Metalcraft: Joseph Laycsak, Chicago Lapidary Club, Chicago, Ill.

XIV Educational: Clint Heckert, Elgin Rock and Mineral Society, Elgin, Ill.

XV Educational Jr. Group: Rich Baud, Roehm Geology Club, Berea, Ohio.

XVIII Junior Society Exhibits: Roehm Geology Club, Berea, Ohio.

XXII Fossils Collected in the Field: Peg Johnston, Roehm Geology Club, Berea, Ohio.



OFFICIAL PUBLICATION

of the  
ISHPEMING ROCK AND MINERAL CLUB, INC.  
Published Quarterly

OFFICERS & COMMITTEE CHAIRMEN - 1978

President	Robert Phillips, 405 S. Rose	Ishpeming
First Vice President	Olive Sain, 818 W. Kaye	Marquette
Second Vice President	Charles Waters, 970 Main	Ishpeming
Secretary	Laurence Sain, 818 W. Kaye	Marquette
Treasurer	Arnold Mulzer, 322 Rock	Marquette
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Finance	R. R. Anderson	Marquette
Field Trip	Joseph LaChance	Marquette
Safety	Leonard Bartelli	Marquette
Curator	C. R. Markert	Ishpeming
Scholarship	Marian Markert	Ishpeming
Hostesses	Ingrid Bartelli and Olive Sain	Marquette
Librarian	Ernie Johnson	Marquette
Bulletin Librarian	Helen Johnson	Marquette
JASPILITE Editor	Sandra Phillips	Ishpeming
Publishers	Laurence and Olive Sain	Marquette
Liaison Officer	Carlton Gutman	Marquette

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

Meetings: Business meeting: 1st Friday of the month, 7:30 p.m.  
at Bothwell Middle School, Marquette.  
Program & activity meeting: 3rd Sunday of the month at  
2:00 p.m., Bothwell Middle School, October-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

Material in this bulletin may be copied provided full credit is given to the author and the bulletin.

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

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A WORD FROM YOUR EDITOR

These past six weeks have been busy ones at our house, and I find that I am the one who is going to miss the JASPILITE deadline this issue.

As many of you know, we have a new rockhound in our family, Daniel James, who weighed in on August 18 at 6 lbs. 8½ ozs. We think he is a little charmer, but we must also admit that he is a fusser. So, members, I hope you will understand why the JASPILITE is a bit smaller this month than usual. Hopefully by the next issue (January) Daniel will be better adjusted to his new surroundings, and I will have more time to devote to other things.

In the meantime, I want to thank everyone for submitting their articles so promptly. Thank you, Dawne Smail, for your lovely article. I've been meaning to speak to you about writing your own column each issue. I think you have a flare with words. How does the idea strike you?

Keep up the good work everyone. I would like to see more articles relating members experiences from this past summer in the next issue.

Sandra Phillips

THE PRESIDENT'S CORNER

By Bob Phillips

The leaves are beginning to fall, and it is the time of year to step back and scan all of the new material acquired since we last saw snow. Okay, so we collected a little too much. Save the excess for a friend, a fellow rockhound, the silent auctions coming up during the year.

Those of us who were on trips this year should be considering a column or two in the January JASPILITE issue. The editor needs input, and remember the JASPILITE is a reflection of you.

Will it be another swap or a show next year? This is a present question being discussed at business meetings. Frankly, I'm somewhat concerned that we can do justice to a show. Participation at business meetings could be better. All members have an obligation to be an active part of the administration of Club affairs. We don't make business decisions at our fun functions. If we shoulder a show, who can we count on? Don't worry about experience, there is enough of that around. We need committed members to say "Okay, I'll do my best. I'll give it a try." New members, this includes you. If we do decide to put on a show, let's give it all we've got.

NOTES FROM THE SECRETARY'S MINUTES

By L. W. Sain

July 6, 1978

Meeting was held at the home of Ernie Johnson due to conflicts at the Bothwell School.

Communications from Donna Kuusisto relative to the presentation of the second scholarship from our Club. Presentation to be made at the "Cracker Barrel" session of the swap.

Bruce Spike reported that the July 22 field trip to the Silver Lead Mine was still on. He showed samples and promised quite a jaunt.

JASPILITE editor encouraged Club members to write articles for publication.

Communication from Mrs. Slatery to Sandra Phillips informing her that the JASPILITE had received one of the top ten honors for new editors.



Members urged to give thought to suggestions for financial sources for our local scholarships. Some ideas in the June JASPILITE.

Ernie Johnson, chairman, reported that everything is in order for the Swap. Door prizes and raffle prizes are needed; every Club member can offer something.

1979 U. P. Gem and Mineral Show brought up and was to be placed on future agenda for discussion.

Meeting adjourned at 9:30 p.m.

### August 3, 1978

Scout troop to be paid \$50 for serving coffee and Kool-aid at the Cracker Barrel session of the Rock Swap.

June Zeitner notified the Club that we will receive an All-American Club Award trophy at the Midwest Convention Banquet.

The book Boom Copper has been purchased in memory of Faustin Anderson. Suggestions were made of other methods for memorials.

The Silver Lake trip was a wet one but enjoyed by all.

Cost of JASPILITE mailing placed on future agenda for discussion.

Meeting adjourned at 9:00 p.m.

### September 7, 1978

Everyone was urged to write the U. S. Forest Service on the RARE II Wilderness land-use proposal stating their views before September 30.

Swap chairman reported a successful and enjoyable swap. Will make a complete report at a later date.

Program chairman asked for program suggestions and assistance. Don't forget specimens for the bragging table.

Secretary to check on weights for cost of JASPILITE mailing.

Christmas party to be held on December 17.

Business meetings will be on Friday, commencing October 6.

Field trip October 7 at 9:00 a.m. Meet at Marquette Tourist Park. Color tour, gold mine, etc. Cameras essential.

A small turnout for the Labor Day weekend field trip but enjoyed by all.

Arnold Mulzer, delegate to M.W.F. Convention, gave a report: --Received a certificate of award for Sandra Phillips, JASPILITE editor.

--Received a M.W.F. Merit Award trophy and an All-American Federation Club trophy.

--He commended our State Director, Florence Hill, for her excellent work as our representative.

Secretary instructed to send a letter of commendation to Sandy.

Frazier Tubbs to take pictures of awards for publicity purposes.

U. P. show for 1979 was again discussed. Several people were instructed to make inquiries as to cost of facilities for two-day event.

Meeting adjourned at 10:00 p.m.

### BITS AND PIECES

By Arnold Mulzer

In this article I shall give a report on the Midwest Federation Convention and Show held in Cedar Rapids, Iowa. This makes the sixth I have attended, and it is almost like a class reunion meeting rock hounds who have been to past conventions. I met several whom I first got acquainted with during our 1972 bus tour field trips.

Margaret Johnson of the Crystal Falls Club and I were the only U. P. residents to attend although Nelson and Marion Short of Howell, Ken and Anne Croner and their son Chris from Flint, and James Edwards of Chicago, all members of the Ishpeming Rock and Mineral Club, were also in



- attendance. Margaret Johnson took first place on a case of jewelry.
- Michigan was outranked by Ohio in the number of delegates at the Convention. We sure missed representation by the U. P. clubs.

At the Editors Breakfast and meeting on Friday morning, I was honored to accept a Certificate of Achievement from the American Federation on behalf of Sandra Phillips for her work as the new editor of the JASPILITE. Also discussed were ways to keep the cost of publishing and mailing down. Inflation is the big culprit. Dues may have to be raised. Let's hear from you if you have any ideas.

At the Delegates Meeting on Saturday, the Ishpeming Rock and Mineral Club was doubly honored when it was announced that they were to receive two trophies--one from the Midwest Federation and one from the American Federation--for outstanding service to members, to our community, and to others. These merit trophies were given out at the Banquet Saturday night. All of us should feel proud of the work of our Club in gaining these awards. Much credit must be given to Dorothy Tubbs for her work in compiling and writing up the activities and sending them to the Federation. You can't win if you don't tell them what you are doing.

The Show was held in a large fair-ground. There was plenty of parking for campers, and the exhibits and demonstrations were excellent. The swap could have been better. For some reason the officials closed the area at 6:00 p.m. and many of us would have liked to keep it open longer. The

area was a good place for meeting old friends.

Columbus, Ohio, will host the Midwest Show next year and it would be nice if more of us from the U. P. would show up. Our State Director, Florence Hill, is already working on making the Michigan booth in the Hall of States an information center for rock hounds and tourists who are interested in the rocks, minerals, fossils and historic sites in our state. Some literature was passed out this year but with a year to plan I am sure there will be more and enough for all.

Florence Hill also organized a get-together on Friday night for all the Michiganders. Iced tea and coffee along with snacks were served and new and old friends just had a good gab fest. To my knowledge, this is the first time this was done, and it went over big; I hope it will continue. Along this line, I think it would be great to have a reunion of all those who attended the 1972 field trip bus tours. I have to work on it.

#### SILVER LEAD MINE HIKE

By Dawne Smail

If eight-year-old Patricia Hubbard were to tell this story she'd probably say, "We walked, and walked, and walked, and walked. . . . . " and we did.

Twelve of us started out on a lightly-raining morning to hike to the Silver Lead Mine located north of Ishpeming and the Dead River Basin. We needed four-wheel-drive vehicles to reach our parking area. Once there we loaded up with our gear and headed into the bush and began what turned into an all-day hike.



The hardwood forest was beautiful in its variety of trees, wild-flowers, ferns, berries, creeks and waterfalls. Some of the virgin timber is 200 to 300 years old with girth of nine feet. At one point we saw a giant that had been felled years ago and now was covered in thick green moss. We could only speculate on why such a monster had never been hauled out. I wanted to take a "birds-eye" maple trophy tree, but could get no volunteers to help me carry.

Ingrid and Olive made the trip even more interesting by identifying plants, flowers, mushrooms, and bird calls. We even sampled some "rassula emetica," a mushroom Ingrid told us was a tongue burner--it was.

Shortly after we entered the woods we came across bear tracks in the muddy road. Deer, rabbit, and partridge signs were everywhere.

Quartz outcroppings were frequent and we took samples from a large mass. I became the first casualty when I slashed my finger on a razor-sharp fragment of quartz. I bled freely and Olive gave me a bandaid, but no one offered to carry me so I forged bravely ahead. We passed many other quartz boulders cloaked in beautiful emerald green velvet moss.

Our guide was Bruce Spike, and we had no trouble seeing him with his orange backpack. He thoughtfully "held back" his timber cruising stride to accommodate his greenhorn crew and picked a round-about "easier" route to the mine. So we walked and walked and walked in the steady rain. Patricia was wearing one of my sweatshirts, and since she was just a head taller than the bracken, she was wet clear through;

and the sleeves drooped longer and longer as the shirt became wetter. She hiked without complaint and was always up front with her Dad and Bruce.

Lunch time arrived and we picnicked on a ridge overlooking a deep ravine. Shortly after we lunched we came across an old test site where chains still lay across the rocks. The going was rough and we didn't take any souvenirs. The scenery was beautiful and even more impressive because no cans littered the forest.

We arrived at the mine and spent about an hour there. There were two adits in the steep rock and quartz face, with a vertical shaft filled with water in each. One adit went back approximately 50 feet. This mine was worked from about 1864 to 1866, with an unknown number of tons removed. Old mines and prospects on quartz-carbonate-sulfide (lead-zinc) veins along small faults and shears have yielded a few tons of lead-silver ore (Segerstrom and Raymond, 1966). We hammered and chipped and each came away with a few promising specimens.

It was colder by then and we had a roaring fire beside the cliff to cheer us and to keep us warm. A few large plastic bags helped keep the rain off. There is a beautiful waterfall beside the mine but the light was too poor for pictures.

When we arrived at Silver Lake on our return route, we crossed an area of logs like tossed matchsticks. Have you ever hiked in wet clothes? With wet pants that cling to your legs and prevent you from raising them over logs or climbing a steep slope? It's murder. And-----we faced another steep ridge, our last obstacle before home.



Bruce asked Pat: How do you feel?

Pat: I feel fine.

Bruce: Do you really?

Pat: I feel terrible.

What a plucky little girl--she never complained.

We ate some of the lovely ripe raspberries at the shoreline and then proceeded to traverse the steep ridge. We climbed, clambered, pulled, slid, tugged, ducked, puffed, paused, woofed and gasped our way upward. When we finally reached the summit the rest of the way seemed easy, and we reached the cars at dusk. Tired, wet, happy and hungry. We stopped at the H.O.B. for supper and enjoyed another hour's company--since misery loves company. To the comment we'd have to hike the next day to keep from being stiff, Maurice Hubbard answered, "I'm going to stay in bed all day and get stiff."

To paraphrase: "Mad dogs and Englishmen go out in the noonday sun." . . . . .

"Rabid rock hounds roam the ridges and ravines in the rain."

An altogether unusual and unforgettable field trip. Thanks, Bruce. When do we go again? October 9, you say? We'll be there.

#### NOTES FROM YOUR LIBRARIAN

By Ernie Johnson

The IRMC Library now consists of a total of 66 books, booklets and magazines. This figure does not include any of the pamphlet library.

You will find a listing of these library books elsewhere in this issue of the JASPILITE; however,

in view of the impending possible decision of the Club to purchase other materials, instead of books, in memory of past members, I would like to give all of you a breakdown on the number of books in the library. I hope that this breakdown will assist you in making an intelligent decision.

Fifteen books were originally purchased at the 1972 M.W.F. Convention to start our library. Since that time, 20 books and booklets have been donated by members and friends of the Club; 14 books have been purchased to place in our memorial library; 7 volumes of the Mineral Digest have been purchased for our library through a continuing subscription; and 10 books have been purchased without any designation on them. This brings the total to 66 books.

Below are listed the Club's purchases of books in memory of past members. These same books are included in the general listing as mentioned above.

Cleaning and Preserving Minerals, purchased in memory of Ed Carlyon.

Handbook of Crystal and Mineral Collecting, purchased in memory of Bill Armstrong.

Mineralogy of Michigan, purchased in memory of Mrs. Helmi Osterberg.

1975 Glossary of Mineral Species, purchased in memory of Charles Tapola.

The Book of Agates, purchased in memory of Ben Desonia.

Color Treasury of Crystals, purchased in memory of Mrs. Selma Tapola.

Fossils for Amateurs, purchased in memory of Floyd Mortenson.



Geology of Michigan, purchased in memory of John Jacobson.

Gold Wire Craft, purchased in memory of Mrs. Laura Maynard.

Jewelry Making for Schools, Tradesmen, Craftsmen, purchased in memory of Adeline Hudson.

Jewelry Making Step by Step, purchased in memory of Jim Hudson.

Complete Guide to Micromounts, purchased in memory of Mildred Jenkins.

Boom Copper, purchased in memory of Faustin Anderson.

Flaming Brands, purchased in memory of Vern Miljour.

Still to purchase a book for is Mrs. Edith Anderson in the near future.

Should you wish to continue the procedure of purchasing books for the memorial library, please show your interest in this by checking out, reading, and returning promptly the books already in our library. They make for excellent reading during the long winter months ahead of us.

CLEANING HINT

Hydrochloric acid is especially useful in dissolving calcite from around other crystals. Frequently calcite is the last mineral formed in the cavity and, as such, protects earlier formed crystals. Removal of the calcite by diluted hydrochloric acid will often expose beautiful and exceedingly fragile crystals. It will also remove iron stains and can be used with fluorite, pyrite,

marcasite and many other sulfides that are attacked by oxalic acid.

From The Conglomerate via The Tully.

CALENDAR OF IRMC MEETINGS

November 3 (Friday)--Business meeting, 7:30 p.m.

November 12 (Sunday)--Program meeting, 2:00 p.m., Bruce Spike will speak on map reading.

December 1 (Friday)--Business meeting, 7:30 p.m.

December 17 (Sunday)--Christmas party, turkey dinner to be held at St. John's Church in Ishpeming. Program will be slides of the Chicago exhibit of the King Tut-ankhamun collection.

January 5 (Friday)--Business meeting, 7:30 p.m.

January 21 (Sunday)--Program meeting, 2:00 p.m.

TO GET A HIGH POLISH on onyx or other stones that are difficult to polish, go through the complete process of making the cab, from grinding to polish, in the usual manner. Then to get the high polish, mix in a baby food jar or any wide-mouthed glass, three table-spoons water with ½ teaspoon oxalic acid and dip your cab in this mixture. Go back to your polishing wheel for another run; you'll like the results.

Via Rock Chips

\* \* \* \* \*

Did you know that some clubs "charge" a monthly rate to check out their library books?

\* \* \* \* \*



THANK YOU, HELEN JOHNSON

We have a new exchange bulletin librarian. Helen Johnson graciously volunteered to take over this position. It involves reading all the exchange bulletins we receive and selecting articles she feels would be interesting to our Club members to appear in the JASPILITE. It is a big job and I appreciate the good job she is doing.

WHY DO METALS HAVE COLOR?

To answer this question, one must first consider the difference between opaque and transparent crystalline materials.

The visible spectrum consists of a very small region of the electromagnetic wave spectrum which starts with radio waves and continues through the infrared (heat), visible, ultra-violet, and on into x-rays and cosmic rays. All this energy is the same kind of radiation and differs only in wave lengths. Whereas radio waves may be many feet long, light rays are only a very, very small fraction of an inch long. Different materials absorb and transmit this radiation differently. Diamond transmits all the visible wave lengths equally well. Chalcantite or copper sulfate transmits the blue portion of the visible spectrum and absorbs the green and red. Dioptase transmits green and absorbs red. Ruby absorbs the blue and green and transmits the red. This selective process of allowing some wave lengths to be transmitted and others absorbed is a property of the atomic structure of the material. Some minerals absorb so much of the visible spectrum that they appear black and must be ground into very thin particles, as in the streak test, before

their color becomes apparent.

Now, what is the color of the streak of metals and those sulfides which have a metallic luster? Try it -- you will find that most are black, meaning that they absorb the entire visible spectrum even in small particles. This is not to say that these materials are opaque for all the metallic sulfides and some metals (silicon germanium and a form of tin) transmit very well in the infrared region of the spectrum. These materials are called semiconductors because they become more like metals when they are heated.

Metals and metallic sulfides look different from other materials because of two facts: (a) as discussed, they are opaque and (b) they have a very high reflectivity in the visible region of the spectrum. It could have been easy to say at the outset that the reason for their high reflectivity is their high conductivity which in turn is due to the large number of free electrons and this would have been right, but how about those pesky sulfides? These sulfides are not metallic in nature, even if they do look like it, and they do not have the free electrons necessary to give them a high reflectivity, but remember the streak. These materials absorb the visible radiation and in this process produce free electrons, which in turn can give them their high reflectivity. This just about explains the question except for the color, and now it can be easily answered.

In the same way that absorption can select some wave lengths and reject others, the reflection process is selective as to wave length. Gold and copper are much more highly reflective in the red end of the spectrum; therefore, they appear red. Pyrite reflects further into the yellow and aluminum, silver and



paladium are highly reflective all the way into the blue thus giving them the bright reflection one is accustomed to see. Reflection from smooth metallic surfaces is called specular from which specular hematite gets its name.

Submitted by Olive Sain,  
from Mineral Matter via  
Southwest Gem and Fox Rox  
News.

#### WHAT ROCKHOUNDING MEANS TO ME

This is the WINNING JUNIOR ARTICLE in the 1977 AFMS BULLETIN CONTEST. It was written by Anthony Dunn, Depew, New York.

To me, rockhounding is a chance to be out in nature, see Mother Nature in her perfection. When I go collecting, enroute to the site, I can see the trees, the lakes, the wildlife and beauty that abounds. After reaching the site and working hard all day, digging in rock, suffering a few minor bruises, and getting tired out, I soon forget about this when that pocket or vug containing a beautiful cluster of crystals, glittering and shining, is in my grasp. I am the first person in the world to see that specimen, and to see the perfection of nature, the near perfect geometry of a crystal, or the delicate coloring of an agate.

Rockhounding is a chance to forget all my problems. Once I am out in the field digging, I wonder if I will find that "perfect" specimen--whether the next rock I turn over contains the find, or is just a dud. Even if I don't find anything, I am rewarded with the beauty of nature and a chance to get away from it all.

But above all this, to me rockhounding is a privilege granted by mine, quarry, and land owners. And today, that privilege is in danger of being taken away.

Vandalism by collectors, littering, destruction of land, trespassing, unauthorized use of explosives, people hoarding material and hauling it out by the truckload--these are just some of the problems caused by so-called "rockhounds." While they are in a very small percentage, these collectors help close up many collecting sites each year. People take these sites for granted, and feel they can do whatever they want, whenever they want, with no consideration for anyone else except themselves.

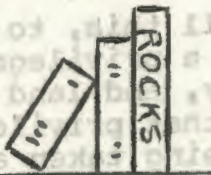
The people who own the land the site is located on, or the site itself, receive nothing for allowing collecting, and are under no obligations to allow rockhounds to collect there, and because rules are broken and property damaged, the sites are closed by the owners.

This wanton destruction must stop, or rockhounding will be a privilege of the past, and the only "collecting" will be buying at shows and from dealers. Also, SAFETY and COMMON SENSE RULES should be followed by every rockhound, with no exceptions; but obviously, not every rockhound does.

Because I am a Junior, and hopefully have many more years of collecting ahead of me, I do not want to see this privilege taken away, and I will warn any misfit rockhounds and vandals, or even turn them in, whenever I see one of them destroying something, and I urge all other rockhounds who enjoy their collecting privileges to do the same, not just to benefit himself, but to benefit all of us.

From the AFMS NEWSLETTER,  
Dec. 1977, via Cedar Valley Gem





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. In addition, the librarian encourages each member to pick up a book or two at his home in between meetings.

#### 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. Rocks and Minerals by H. S. Zim and P. R. Schaffer. A nicely illustrated, easily used identification guide for beginners. 160 pages.

5. 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 by Trudgeon's Done-Roamin Resort. 44 pages.

6. The Story of Rocks and Minerals by D. M. Seaman. A guide for the young collectors. 100 pages.

7. Minerals Recognition by T. 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. List of Minerals Frequently Exhibited Competitively at Mineral & Gem Shows, with Formulae from All Authorized References, published by the Colorado Mineral Society and donated to the Club by Mr. and Mrs. Nelson Short. A to Z listing of mineral species giving the chemical formula for each along with the page numbers given for additional information in several reference books.
6. Mineralogy of Michigan by E. William Heinrich. Purchased by the Club in memory of Mrs. Helmi Osterberg. Published in 1976 by the Geological Survey Division of the Department of Natural Resources and gives data on minerals of Michigan.
7. 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.
8. 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 the Lapidary Journal. (soft cover) A compilation of articles written by various authors and appearing in the Lapidary Journal magazines through 1966. 94 pages.
2. The Book of Agates by Lelande Quick. Beginning with a description of an agate, this book covers the history, location and collecting of agates. Also has a section on how to cut and polish agates. 232 pages. Purchased in memory of Ben Desonia.

### 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. Kinkankas. 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. Door, 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 for Schools, Tradesmen, Craftsmen by Murray Bovin. Purchased by the Club in memory of Adeline Hudson. Covers the entire jewelry-making process from the tools and equipment needed to the finished product. (soft cover) 184 pages.
3. 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. MICROMOUNTS

1. The Complete Guide to Micromounts by Milton L. Speckels. (soft cover) Purchased by the Club in memory of Mildred Jenkins. A manual for mineral collectors with data on selection, mounting, care and display of minerals, both large and small. 97 pages.

## XIII. JUNIOR MEMBERS

1. 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.
2. 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.

## XIV. BOOKS AND REFERENCES ON THE UPPER PENINSULA

1. Boom Copper by Angus Murdoch. Purchased by the Club in memory of Faustin Anderson. The story of the first U. S. Mining Boom, located in the Keweenaw Peninsula. The book is full of lusty yarns, but it is much more than that; it is an authentic, conscientious, factual account of the copper mines of the Keweenaw Peninsula, their operation and operators from the earliest days down to World War II. 255 pages.
2. Marquette County Bicentennial Color Book by Mac Frimodig. Donated by Ray Anderson. Picture book of Marquette County history.
3. 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.
4. The Saga of Iron Mining in Michigan's Upper Peninsula by Burton Boyum. A brief and informative story of an important and colorful segment of U. P. mining history. Many old photos help to tell the story. 48 pages.
5. Study of Technical and Economic Aspects of an Expanded Stone Industry in Michigan by Staff of the Institute of Mineral Research, MTU. Donated to the Club by John Argeropoulos. Contains a detailed and informative report submitted to the State Department of Commerce on the building-stone industry in Michigan. 124 pages.
6. Flaming Brands. Purchased in memory of Vern Miljour.

## XV. MAGAZINES, PERIODICALS AND BOOKLETS

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



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. Lapidary Journal Magazine, September, 1976, issue. Donated to the Club library by Lapidary Journal Magazine. Contains several timely articles.
6. Lapidary Journal Magazine, August, 1978, issue. Donated to the Club library by Lapidary Journal Magazine. Contains one article on how to remove thomsonite from basalt, as well as other timely articles.
7. Mining and Mineral Operations in the North Central States -- A Visitor Guide. Donated to the library by the U. S. Bureau of Mines. This text provides interesting highlights about mines and mineral operations that travelers may see from the highways. The mines mentioned are representative samples and are most easily observed from the highways.
8. Regional and Local Uniform Rules and National Trophy Rules -- AFMS -- November, 1970, edition.
9. Exhibitor's Manual -- AFMS -- 1969 Revised Edition.
10. The Treasure Chest. A catalog of lapidary supplies, findings, etc. for the rock hound. Company located in Hazredegrace, Maryland.
11. Souvenir Booklet of the Jaspilite. Booklet published by IRMC in conjunction with the '72 MWF Convention.

#### PAMPHLET LIBRARY

The following categories are presently in our pamphlet library. Each pamphlet consists of articles from MWF member clubs' bulletins or donations of interesting articles by our members which they would like to share with other Club members.

This pamphlet library will be constantly changing; and, therefore, additional categories may be, and additional articles certainly will be, added each month. Please check with the librarian at meetings for any up-to-date material.

1. TUMBLING
2. LAFIDARY
  - a. Hand and Machine Polishing
  - b. Cabachons
  - c. Safety
  - d. Shop Hints
  - e. Lapping Specific Minerals
  - f. Making and Maintaining 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. Display Case Plans
  - e. How to Make a Tack Box
6. MARQUETTE COUNTY
  - a. "More than 100 mines reflect history"
  - b. "14 Years of 24 Karat Mining"
  - c. Marquette County Maps (DNR)
  - d. Miscellaneous
7. COPPER COUNTRY
  - a. On Collecting and Collecting Sites
  - b. History of Copper Country
  - c. "Ancient Mining on the Shore of Lake Superior"
  - d. Geology of the Copper Country (Carl Gutman)
8. MINERALS
9. FOSSILS
10. SHELLS
11. CRYSTALS
  - a. Crystallization of Minerals (Carl Gutman)
  - b. Miscellaneous
12. GEOLOGY
  - a. A Study Guide for Geology Course (Carl Gutman)
  - b. Miscellaneous
13. GENERAL INFORMATION
  - a. "Copper Mummy"
  - b. AFMS Code of Ethics
  - c. Mineral Formulas
  - d. "Time Upside Down"
  - e. Miscellaneous

THIRD CLASS

Return Postage Guaranteed

October, 1978

THE JASPILITE

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