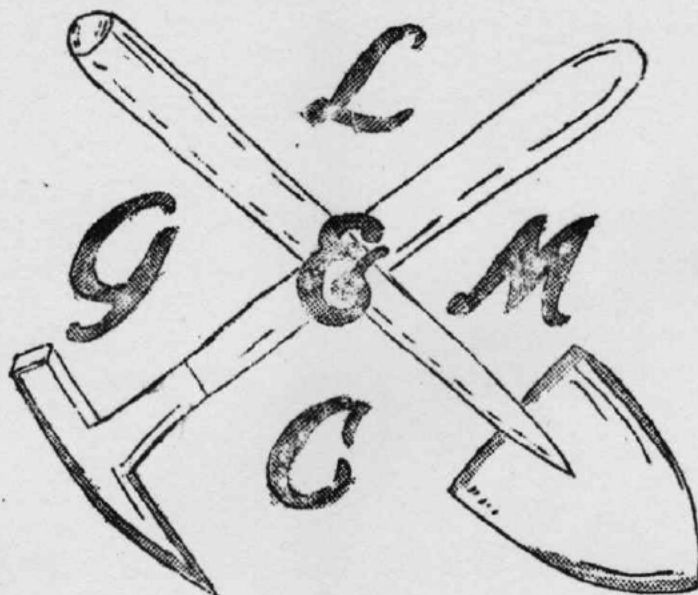


THE PICK & SHOVEL



MONTHLY BULLETIN OF THE
LINCOLN GEM AND MINERAL CLUB, INC.
LINCOLN, NEBRASKA

LINCOLN GEM AND MINERAL CLUB, INC.

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- Second Vice-president Everett Weber
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3510 Everett St.
- Treasurer James Parks
3510 Everett St.
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4130 Witherbee Blvd.
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3601 South St.
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4130 Witherbee Blvd.

* * *

Affiliated with:

Midwest Federation of Mineralogical and Geological Societies

American Federation of Mineralogical Societies

* * *

BULLETIN EDITOR - Mrs. Velma Bloyd
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Lincoln, Nebraska

Telephone 434-4781

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THE PRESIDENTS PAGE

Dear Fellow members;

Here it is, June, and two field trips have been taken. The first, of course, to Fullerton and I understand some members have gone back again, as we all know, a wonderful spot to spend the day. Our second trip to Wymore, which was also a success, thanks to Mrs. Engelhart a good time was had by all attending and from all reports also good hunting.

At our last meeting, we were fortunate to have Mr. & Mrs. Tolman, fellow rockhounds of Manteco, California, as our guests. They were also kind enough to present our program and brought with them some fine trading material which we all enjoyed. These fine people were so friendly but none surpass our own Lincoln Club members. You were truly all very kind and hospitable to Mr. & Mrs. Tolman. We extended the hand of friendship and were not disappointed. Thanks to you all for such a fine welcome and also for inviting these California "rock" friends into your homes. It was appreciated and I, as your president am proud.

We have the acknowledgement from the State Parks and Game Dept. on our offer of the picnic tables and that office wishes to thank our club for the generous offer and donation.

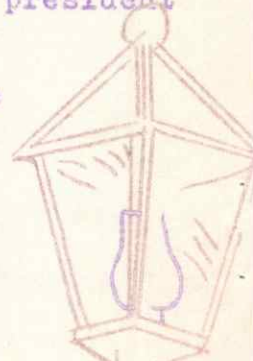
I have also recieved the H.E.L.P. stickers for our use in the wonderful program to help keep our country clean and beautiful. The stickers arrived just one day to late, so could not be used for our last field trip. Please call me or let me know when and how I can get these to you, as I do not feel it necessary to mail to each member.

Our show committee will meet later this month. You will be notified as to the time and place.

Our field trip for July will NOT BE Weeping Water as originally planned but instead we shall have our annual covered dish picnic at Fremont, Nebr. and then on to the gravel pits there. The date and time on another page of your paper.

Until Then
Sincerely,

Marie J. Carveth





NO REGULAR MEETING
IN
JUNE, JULY, AUGUST

FIELD TRIP #3

Fremont, Nebraska -- July 21st, 1963 -- Gravel pit.

Covered dish picnic dinner at Fremont City Park. Eat at 1 p.m. sharp. Leave for the gravel pits at 2 p.m.

Bring drinking water to use at the pits as there is no water there for this purpose.

COMING SHOWS

- | | |
|--------------|--|
| June 21 - 23 | Fort Collins Rockhound Club, Fort Collins high School Gymnasium, Fort Collins, Colorado |
| June 28 - 29 | Gem County Rock and Mineral Soc. Emmett, Idaho |
| June 28 - 30 | Wyoming State Council Of Gem & Mineral Clubs, Fairgrounds bldg., hours; 10 a.m. to 10 p.m. Casper, Wyoming |
| June 28 - 30 | St. Louis, Missouri, Rock Hobby Clubs, Mosely, Auditorium, 4610 North Lindburg, Bridgeton, Mo. Hours; 10 a.m. to 10 p.m. |
| July 12 - 14 | California Federation of Mineralogical Societies. Santa Clara County Fairgrounds, San Jose, Calif. |
| July 18 - 21 | Midwest Federation of Mineralogical and Geological Societies Field Trip. Hibbing, Minn |
| July 20 - 21 | Navajo Trails Gem & Mineral Club, Inc. Gem Village, Bayfield, Colorado |

H.E.L.P. Eliminate litter please -- This summer "DON'T BE

A LITTER CRITTER"

A SUMMARY OF THE '63 MIDWEST FEDERATION FIELD
TRIP CONVENTION IN THE ARROWHEAD OF NORTHEAST
MINNESOTA

17 - 21 JULY 1963

First of all there will be a registration fee of \$4.00 which will include insurance and badge and booklet (one copy-200pp). There will be a separate fee of \$2.25 for entrance to the thomsonite collecting area. This will be just about the last chance to collect thomsonites in the rough. The site has been leased and bulldozing is proceeding to turn up fresh pickings by a private party who has agreed to let our field-trips be the first to explore. Don't miss this opportunity of a lifetime.

There will be field trips on Thursday, Friday, Saturday, and Sunday (18-21 July). On the first three days there will be trips to each area; on Sunday the longer trips may not be offered. Let us follow Mr. Rockhound as he participates. He's decided to do everything and see everything. On Wednesday, he can't wait so he's up early and as a club delegate is at the Council Meeting of the MWF bright and early. Dinner will be available at the meeting place for optimum efficiency. Thursday Mr. Rockhound is up really early to board a bus for Duluth, Grande Marais, etc. to find thomsonites, gabbro, agates etc. Only bus travel is planned for this trip. Sack lunches should be taken as they will allow you more time to hunt the elusive minerals.

On Friday Mr. Rockhound and family are up early again for a bus trip to Ely and the search for Soudan Quartz crystals, Ely lump hematite and Ely greenstone. In the evening there will be a fish fry and steak fry hosted by the Greenstone Division of the Mesabi Rock and Mineral Club. A very able speaker will be there too. Also a swap session with the Greenstones.

Saturday starts with an Editors Breakfast and the awarding of the winners of the annual Bulletin Award of the MWF. This will start about 7:30 A.M.! Also a field trip to Grand Rapids to look for fossils and tube agate and further to the Crosby-Ironton area to search for silkstone and binghamite. In the evening about 7:30 P.M. the big banquet will be held in the Hibbing Armory. About \$2.50 per person. Another very good speaker is on the offering. The silent Auction is also planned for the late evening of this day.

On Sunday, Mr. Rockhound and family may go to the church of their choice. A whole series of short field trips to the local mines -- the Hull-Rust for goethite and marmite and maybe lunch in the bottom of the largest open pit iron mine in the world. Also to the Judson near Buhl for fossils and to the Mountain Iron to see the Pilotac, USSteel's taconite plant. Over further to the Gilbert area for Mary Ellen jasper and maybe fern fossils.

Also during these days there are movies and slides in the Hibbing Armory Rifle range (out of the sun) and much activity in the swap and tailgate section on the fairgrounds. All of the above mentioned field trips will be going every day.

FIELD TRIP RESERVATIONS

1963 Field Trip Convention, MWF
St. Louis County Fairgrounds

July 18, 19, 20, and 21, 1963
Hibbing, Minn.

(All fees listed are payable at time of registration. In order to complete our plans for trips, however, it is essential that registrants signify trips desired and date preferences. Because of limited parking facilities in many of the collecting areas, the convention committee is urging the use of provided buses as much as possible.)

	No. of persons	18	19	July 20	21
CROSBY-IRONTON, MINN. AREA					
Approximate distance from Hibbing, 105 mi.					
Silkstone, Binghamite, Manganite, Groutite, Rhodocrosite, Asbestos					
Round trip bus fare per person \$5.00					
GRAND MARAIS, MINN. AREA					
Approximate distance from Hibbing, 190 mi.					
Thomsonite collecting on privately owned land.					
Collecting fee per person \$2.25					
Round trip bus fare per person \$7.50					
TOWER-SOUDAN-ELY AREA					
Approximate distance from Hibbing, 85mi.					
hematite xls., Quartz xls., Chalcopyrite, greenstone, jasper, serpentine.					
Round trip bus fare per person \$4.00					
Optional tour, Soudan Underground					
Mine State Park \$2.25					
Children under 12 - \$1.25					
GRAND RAPIDS, MINN. AREA					
Approximate distance from Hibbing, 35 mi.					
Tioga Mine, others. Agate, Jaspers, chert, Cretaceous fossils, iron ore minerals					
Round trip bus fare per person \$3.00					
DULUTH, MINN. AREA					
Approximate distance from Hibbing, 75 mi.					
Agate hunting in several gravel pits					
Round trip bus fare per person \$4.00					
CLOSER COLLECTING AREAS					
30 mile radius of Hibbing, Assorted stops for collecting agates, fossils, minerals, visit to Chisholm's Minn. Museum of Mining					
Round trip bus fare per person \$2.00					

RETURN TO GENERAL CHAIRMAN WITH BASIC REGISTRATION FORM - DEADLINE JUNE 20, '63

NAME _____

1963 FIELD TRIP CONVENTION
St. Louis Fairgrounds, Hibbing, Minn.

MIDWEST FEDERATION
July 18, 19, 20, and 21, 1963

	Amount enclosed	audit
Basic Registration fee per person (age 15 & under free) (Souvenir booklet not included)	\$4.00	_____
MWF Council meeting, Hotel Coates, Virginia-Wed. 5 p.m.	_____	_____
Pastry Supper, Hibbing, Minn. Thursday, 6-8 p.m.	\$1.25	_____
Fish/Steak fry. Ely, Minn. Friday, 8:30 p.m.	\$2.00	_____
Editor's Breakfast, Chrisholm, Minn. Sat. 7:30 a.m.	\$1.25	_____
BANQUET, Hibbing, Minn. armory Sat. 8:30 p.m.	\$2.50	_____
Camping facilities, St. Louis County Fairgrounds, Hibbing (fee covers full 4 day stay)	\$2.00	_____
Tailgate permit, designated area, fairgrounds	\$2.00	_____
Total amount enclosed	_____	_____

Trip reservation sheet enclosed _____
Baby sitter required _____ Age of children _____

PLEASE MAKE YOUR CHECK OR MONEY ORDER PAYABLE TO:
G.A.Ogden, Convention Treasurer
Mesabi Rock & Mineral Club

SEND ALL RESERVATIONS TO: C.B.Peterzen, General Chairman
1963 Field Trip Convention
2607 E. 3rd Ave. Hibbing, Minn.

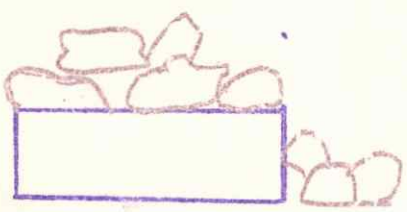
PLEASE TYPE OR PRINT PLAINLY,
list individual family members separately

NAME _____

ADDRESS _____

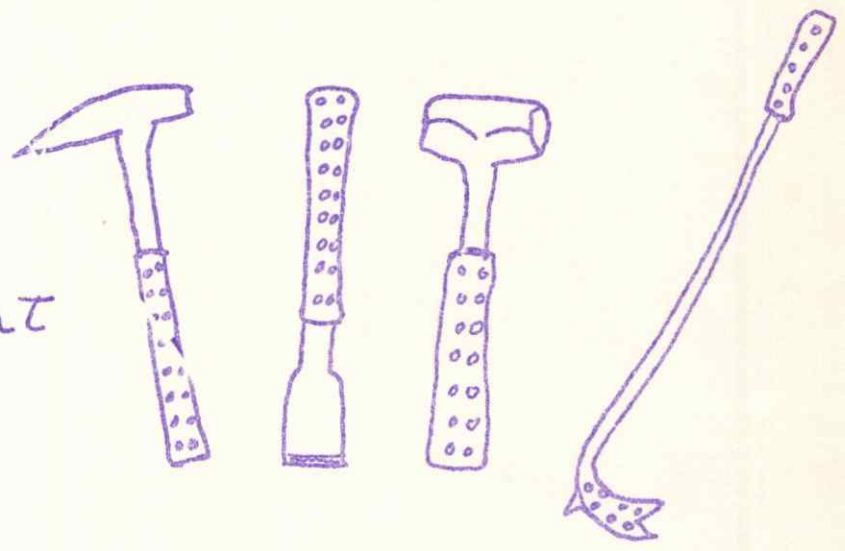
LAST DATE FOR RESERVATIONS - JUNE 20, 1963

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ROCKY NUGGETS

Sunday, May 26th, Our guest speaker Mr. & Mrs. William Tolman (from Manteco, California), Mr. & Mrs. Maurice Tracy, Mr. & Mrs. Norman Engelhart and son, Chris, went to Holmsville, Nebraska for a rock hunt. The rain poured from the sky all the way but upon arriving at the gate to the quarry, the facet shut off and a nice day was in the making. Even though it was wet underfoot, they all went home with nice mineral specimens.

Velma Bloyd had said she wanted to celebrate her birthday sitting on a rock a rock hunting so May 30th, away went the Bloyds and the Engelharts at the last minute to Holmsville, Nebraska. A successful trip was had by all when Velma ran across the discovery of golden tuff Barite. Dorothy and Velma had quite a time removing the first specimen, after that many were found by the men and brought home to complete a wonderful birthday celebration.

May 30th also was a rock hunting day for the John Lewis's, Ted Britten and Floyd Fellows. They went to Fullerton, Nebraska to hunt some beautiful wood. Floyd Fellows also found agate with dendrites and a nice piece of banded agate resembling that of a lake superior. While they were hunting, The Howard Taylors arrived to try their luck in finding some nice pieces of cutting material.

June 2nd, The Bloyds met Mr. & Mrs. Maurice Tracy, Mr. & Mrs. Robert Bainbridge, Mr. William Tolman and Tod Ashman for an early start at Holmsville, Nebraska. Many beautiful specimens of golden barite were found before going on to Wymore, Nebr. for the 2nd. Field trip.

The turn out of our members for our field trips this year has been marvelous. 30 members and 4 guests were present at the Emerson Farm, Wymore Nebraska. I have never witnessed a harder working group of rockhounds as they used sledges, picks etc. working away at the hard shale. Bruce Simon and Everett Weber ended the day with the nicest of specimens. Mr. William Tolman from California was a guest of the club at this field trip and mentioned he had enjoyed the day. Many learned the way of using a chisel properly from him and we are grateful he shared his knowledge with us.

Mr. & Mrs. S.H. Waters of Fullerton, Nebraska were among our guests that day after driving 200 miles to join us on a field trip. It was a great pleasure having them with us and when he left us he was carrying a sack of rocks. I am hoping he had some nice specimens too.

Mr. Elwin Trump of Wymore, Nebraska came over to the diggings and offered us advice on the How's and Why's of hunting Celestite. We welcome this advice as for a lot of us, it was our first time at digging for the mineral. Thank you again, Mr. Trump for sharing your Sunday afternoon with us.

Have you gone on your vacation or a rock hunt? If so call me or I will be calling you.

Dorothy Engelhart

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NEW ICE AGE ELEPHANT AT FORT ROBINSON

Dr. C. Bertrand Schultz, director of the University of Nebraska State Museum, announced Thursday, June 16th, 1963, that a large, ice age elephant will be mounted at the University's Trailside Museum at Fort Robinson this summer.

The specimen is unusually large -- just a foot shorter than the largest North American land mammal ever found (also an elephant at the State Museum in Lincoln, Nebraska.)

The mammoth is one of two found last summer on the ranch of Tom Moody Sr. and his son, James, near the fort by George McMillian and Bennie Ferguson of Crawford, Nebraska.

The find was of great interest to the scientific world primarily because the specimens about 12,000 years old were among the last of their kind to roam America and were the kind hunted by early man for food. They were found with their tusks locked together and there is a possibility they had been fighting before their deaths.

Dr. Schultz called the mammoth "a real community elephant because of the outstanding help the people in the Dawes and Sioux County area have given the University.

One of the four young men who is helping to do the assembling at Fort Robinson is a member of the Lincoln Gem and Mineral Club. Tod Ashman, a member for some years is working with Dr. Lloyd Tanner at the Trailside Museum.

* * *

H.E.L.P. Help Eliminate Litter Please -- Don't be a litter Critter

OBVIOUSLY. OBSIDIAN

Obsidian is a term applied to glasses with shiny luster, dark color and smoothly conchoidal fracture. Most obsidians are rhyclites, but they are not limited to this composition. Typical fresh obsidian is glossy and black; owing its darkness to closely spaced crystalites. Light passes readily through thin flakes and tapering edges. Although most obsidian appears homogenous at first sight, close inspection will usually reveal traces of flow lines. Spherulites and lithopysae are common structures, and phenocysts of quartz and felspar are present in many.

Hematite, dispersed through the rock as a finely divided powder, may give obsidian a deep red color. It marks an early stage of devitrification. The red color is usually not persistent but is distributed in patches or concentrated in streaks that follow the lines of flow.

Pitchstones are glassy rhyolites with a resinous rather than a glassy luster. Their appearance is ascribed to an abnormally high water content. Typical colors are green, brown and gray; otherwise they resemble obsidian.

Reprinted in part from "The Rock Review"
Salem, Ohio

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MIDWEST FEDERATION
 LETTER - A - MONTH
 for June 1963

Subject: WHY HAVE STATE ROCKS?
 by: June Culp Zeitner

WHY HAVE STATE ROCKS?

Judging from the number of letters I have received from all over, the subject of official state rocks was mentioned in the AFMS Bulletin, it seems likely that regardless of how we may feel about such measures, they are bound to be considered by most states in the near future. As an organized hobby in the earth science field we must be ready to use our influence to see that logical selections are made, that intraclub and intrastate differences are peacefully arbitrated, and that bills are accurately worded.

Since most states have official flowers, birds and even trees, it is natural that in this rapidly mushrooming hobby, many people desire to see the mineral kingdom equally honored. We have a real opportunity to use this trend to further public knowledge of rocks and minerals, as well as to demonstrate that this hobby is fair, important, scientific, influential, and efficient, -truly America's number one hobby. We should consider carefully the following points.

1. The states will want a rock or mineral which may be used for publicity, official purposes, insignia, gifts to noted visitors, state museums, etc.
2. Scouts, 4H Clubs, science classes, and other groups, who have for years been bombarding museums, rock shops, and public officials, for samples of state rocks, will want showy specimens which are readily available and not too expensive.
3. Hobbyists will want a rock adaptable to jewelry, gem show exhibits, and other projects.
4. Field trippers will hope for state rocks that they can have the pleasure of finding for themselves.

As varied as these points are, it will not be easy to choose a rock common enough to give or sell cheaply to children, beautiful enough for the fine jewelry, and important enough for museum displays. The state rock should also be easily recognizable. It should be a rock or mineral unique to its state, most often associated with the state, discovered in the state, or named for a locality or resident of the state. In most cases commercially mined minerals should be excluded, as what may be a big boost to one might prove to be unfair to the others. If commercial mine products are included we could conceivably wind up with many duplications. Alaska, California, and South Dakota would all have valid reasons to claim gold.

A bill to make rose quartz the official South Dakota rock was tabled half way through the State Legislature largely because of the inaccuracy of calling quartz a rock instead of a mineral, and partly because it caught by surprise most residents of the State interested in this subject either as professionals or hobbyists.

Obviously this whole thing could become very controversial. No matter how your club feels, they cannot stop this trend so it is best to give the matter some serious consideration at once. However your group may feel that they would like to have a part in the selection of your state rock. If so, here is how to go about it. Refresh your knowledge of rocks and minerals of your state. Contact other clubs in the state as well as interested professional people. Choose a competent impartial group to poll the state clubs and others who should have a voice in the decision. In South Dakota the state Geological Survey has volunteered to do this. Have a committee of qualified mineral and legal experts to double check the wording of your bill. Have an interested legislator introduce your bill. Don't try to rush things. If it is worth doing at all it is worth doing well.

by
June Culp Zeitner

KNOW YOUR FEDERATION

THE PLACE OF EDUCATION IN OUR SHOWS

One of the major purposes of our gem and mineral show should be Education. A show may feature fine displays, new materials and methods, noted lectures, unusual field trips, but unless the show also helps to educate the public it has not fulfilled its potential. True, the shows are sponsored by the organized hobby, primarily for hobbyists, but if it were not for the interest and attendance of the general public many of these events would fail completely.

Why should we help educate the public? We live in an age where science is the all important subject - the key to the future. Exploding population and rapidly dwindling natural resources are creating problems in which we of the rock and mineral hobby should be vitally interested. In spite of the increasing significance of the earth sciences, only four states of the fifty have well established statewide school programs of earth science courses. Twelve more states offer earth science in a majority of schools, and all the rest report few courses or none. Some states (I am sorry to say North Dakota was one of them) thought the matter of so little importance that they did not reply to the survey conducted by Professor John Coash, Bowling Green University, and the McGraw Hill Book Company. I conducted a survey a few years ago to see what position earth science news items have in the American press. In most cases the stories were relegated to the back pages. In many instances they were inaccurate, poorly written, or incomplete. Clearly, to a multitude of Americans their best and most tangible contact with the earth sciences is through our "rock shows".

Since we have such a splendid opportunity to reach so many people through our shows how can we help them? Competitive educational exhibits, encouraged perhaps by a special award since they are not eligible for an AFMS trophy. Prize winning educational exhibits could be loaned to schools, libraries, civic clubs, or youth groups. Most clubs have a special, club exhibit for a show at which they are host. This could well be of educational nature. Non-competitive displays and programs stressing education should certainly be sought. It should not be too difficult for every show to devote a certain amount of space and time to so important a part of our hobby.

Even field trips at shows should be made more educational. For example, how many on a large field trip know in what formation they are hunting, the age of the formation, or the formula or constituents of whatever they are looking for?

The hobby has much to gain through increased public knowledge of the earth sciences. First, we attract desirable and helpful types of people to the hobby by emphasizing educational aspects. Second, such emphasis gives the public a better image of our hobby. Fringe benefits are important too. An enlightened public will help advance earth science in our schools. A public which admires what we are accomplishing will help see that we get better publicity, better buildings and lower rents for our shows, and increased cooperation from local officials.

The public likes its education in easy doses. Therefore displays of this type should be informative, timely, accurate, attractive, easy to grasp, thought provoking and memorable. People especially like displays which they feel relate in some way to their locality, their work, their interests, their lives.

Another point is that through emphasizing education in our shows we will help our own hobbyists. At the present time many of our members are newcomers. Many have not yet joined a club. These new hobbyists eagerly attend our shows in hopes of learning a lot in a hurry. Since Education is one of the stated aims of our Federation we should make a greater effort to see that