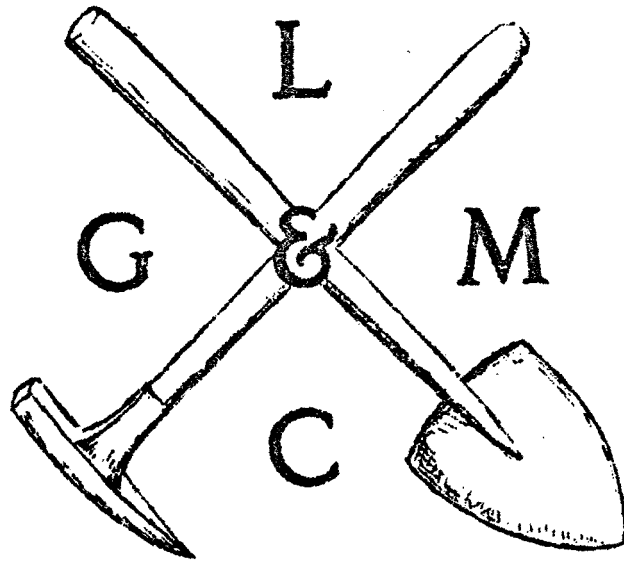


THE PICK & SHOVEL



OCT - - 1973

OFFICIAL PUBLICATION OF

LINCOLN GEM & MINERAL CLUB

HOST OF COMBINED

MV/F-AFMS NATIONAL SHOW AND CONVENTION
AND NEBRASKA STATE SHOW

JUNE 13-16, 1974

LINCOLN, NEBRASKA

C A L E N D A R

REGULAR MEETING: Sat., Oct. 27, 1973, 7:30 PM
W.O.W. Bldg., 734 S. 27th St.

PROGRAM: Microphotography is the subject
of a slide lecture by Roger Pabian

ROCK FEATURE: October's gem--the Opal.
Let's have a good display.

BUSINESS: Change in voting procedures to
be considered.

REFRESHMENTS: Will be served by Committee.

MUSEUM VOLUNTEERS: Opening of Workshop: Oct. 26,
7:30 PM, Nebraska Hall. Enter
west door. Take elevator to
4th floor. A fine learning
experience for those wishing
to work with fossils. For
more information, contact
Dorothy Engelhart, 488-5383.

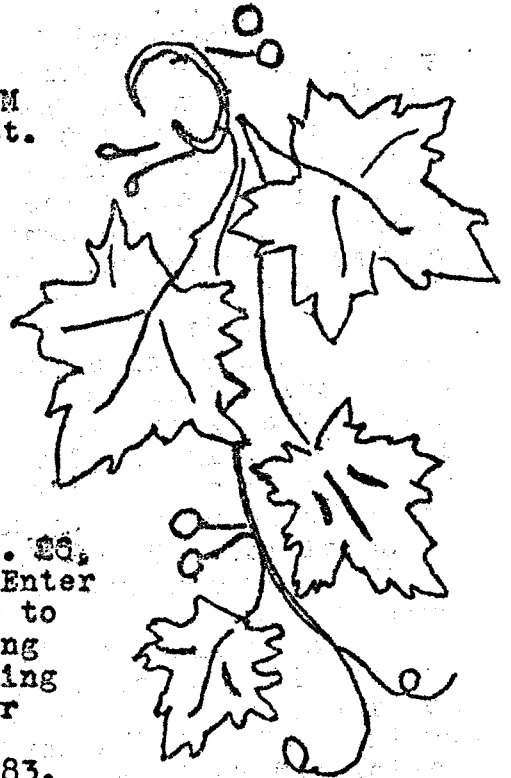
LAPIDARY CLASSES: Classes have begun. If you are interested in
learning to cut and polish your specimens, call
John Lewis, 466-7289.

WELCOME NEW MEMBERS: Dan and Dale DePasquale, Crete, Nebraska.

LCMC BOARD MEETING: Nov. 1, 1973, Nebraska Hall.

DATES TO REMEMBER:

Oct. 20-21	Dewey, Oklahoma	Osage Hills Gem and Mineral Soc. Show - Fairgrounds
Oct. 20-21	Sumner, Iowa	Northeast Iowa Rock Club - Legion Hall
Oct. 20-21	Marshalltown, Iowa	Mid-Iowa Rock Club Show
Oct. 20-21	Louisiana, Mo.	Pike Co. Min & Gem Show - Middle School Gym
Oct. 27-28	St. Ann, Mo.	McDonnell Douglas Gem and Min. Show - NW Plaza Auditorium
Oct. 27-28	Sioux City, Iowa	Siouxland Gem & Min. Soc. Show - Sioux City Auditorium
Oct. 27-28	Hutchinson, Ks.	Hutchinson Gem & Min. Soc. Show - Convention Hall
Nov. 3- 4	Chanute, Ks.	Chanute Gem & Min. Soc. Show - Central Park Pavillion
Nov. 10-11-12	Madison, Wisc.	Lap. and Min. Club Show - 112 N. Fairchild St.



Save your Betty Crocker Coupons. Bring to meeting
and give to Helena Baegl. Each coupon point is worth
1¢. Nearly 10% of the Scholarship Fund is derived
from Betty Crocker coupons.

RESERVED

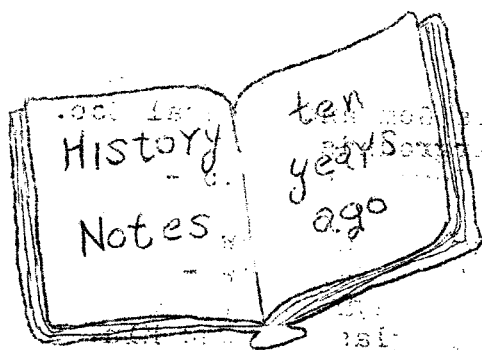
LAST MONTH . . .

59 members and 3 guests were present at the September meeting of the LGMCO. Guests were: James Swinehart, Dan DePasquale, and Walter Benzing of Oxnard, Cal.

James Swinehart, research geologist with the University of Nebraska, gave a slide lecture on the geology of the Sand Hills. Some of the interesting facts which he shared with us are as follows: Nebraska is in the center of the world and the Sand Hills are in the center of Nebraska. They are the largest preserved area of sand accumulation in the Western Hemisphere. Their area is 200x130 miles. They are drained by very few rivers. The rain seeps into the sand, and the Brule Formation holds the water like a basin. The rocks are completely saturated with water. The Sand Hills are probably the largest reservoir in the U.S. They may supply water for other areas in the U.S. in the future. There are many lakes in this region. They are being drained by farmers to provide land for hay meadows. Information concerning the topography of the Sand Hills is being received by satellite. The Fairburns and petrified wood which we like to find in the Crawford area are found in the Chadron Formation which is exposed there.

The business meeting followed the program. Information concerning it will be found in the minutes of the September meeting. Special mention should be made of the honor received by Howard Taylor--chosen by the LGMCO as its second vice-president. We are very proud of Mr. Taylor and feel they have chosen wisely. He has served our local club faithfully and well. We have lots of confidence in him, and are glad his sound judgment and dependability is recognized by others. Our best wishes are extended to Mr. Taylor--newly elected president of the Nebraska Association of Earth Science Clubs, Inc.

E.U.



The October 1963 meeting of Lincoln Gem and Mineral Club was held at Roberts Dairy Party Room. A new gavel was presented by Walter Mozer to be used by our Presidents. This gavel was made by his son from their own walnut tree.

The membership approved unanimously of giving the Lincoln Board of Education 2 cases of mineral specimens for use in Earth Science classes of Public Schools. 1 case is to be used as a lending case for any school within a 50 mile area of Lincoln. Mr. & Mrs. Guy Miller of Hastings presented a rock quiz.

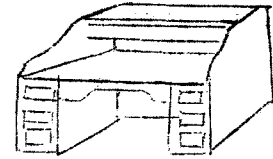
From the notebooks of Frances Tracy, Historian
VAJA CON DIOS - MAY GOD BE WITH YOU



Cards this month went to:
MAURICE TRACY (get well)
BARBARA ALLEN (sympathy)

LATE NEWS FLASH - Howard Taylor has just called to give us this message - Mr. Leonard Hill of Hastings, President of NAOESCI, is in Mary Lanning Hospital, Hastings after suffering a massive coronary.

FROM THE PRESIDENT'S DESK:



ON COMMERCIAL SHOWS: A recent development in the rock hobby has been the formation of private organizations that sponsor rock shows, usually at shopping centers, for the purpose of generating corporate and/or personal income. These shows are, for all practical purposes, commercial shows. Each member will receive a letter in the near future stating the policies of the Lincoln Gem and Mineral Club, as outlined by the committee appointed by the board of directors, concerning the participation of the Lincoln Gem and Mineral Club and its' members in such shows. The coming of such shows is indeed unfortunate. The policy statement will be voted on by the general membership at the October meeting.

ON THE NOMINATING COMMITTEE: The committee has finished seeking nominees for office. These nominees will be announced at the October meeting. The general membership will then be given an opportunity to place candidates in nomination for any of the offices. Think of who you would like to see in any particular office. If that person hasn't been selected by the committee, he may be placed in nomination from the floor. Of course, you must have that person's consent to place him in nomination.

A new method for conducting the elections of officers will be discussed at the October meeting. This change will require a change in by-laws. We will hear about it at the October meeting.

ON THE STATE SHOW: The Lincoln Gem and Mineral Club was well represented at the State Show at North Platte by 23 cases and 21 individuals, for a 1.095 case to individual ratio. This means that 15.44 percent of our members took displays. This is a very good turn out for this important event.

ON THE SIOUX CITY SHOW: Our Club again will try to gain possession of the Sioux City Club's traveling trophy. I will be in charge of taking up the display to the show on October 27 - 28. We need good material in fossils, minerals, lapidary, and jewelry and metal craft for our Lincoln Club case. Please contact me to let me know what you have that you would like to furnish. We have the material and talent to win this trophy for a second year running. Contact me about what you can furnish.

ON THE 1974 SHOW: We need your display applications. I was very pleased with the excellent response to display application returns at the September meeting. If you missed the September meeting, you may turn your application in at the October meeting. We still have a few spaces left, so hurry. Don't be left out of a chance to display at a National Show.

ON THE OCTOBER PROGRAM: Yours truly is the speaker. I will demonstrate how to do micro- and macro-photographic work with such things as gems and fossils. After the demonstration, we will see slides of agates, fossils, and jewelry. Many of the slides will be accompanied by a short description of the technical aspects in the making of the picture.

ON THE OCTOBER MEETING: See you there!

ROGER K. PABIAN, President

EDITORIAL

I was wondering what to write for an editorial this month. I came across the following poem by Herbert Buffum, which expresses a good idea much better than I can. I hope you will read it and like it as much as I do.

The Faults I See in Me

I have so many faults myself
I seldom ever see
A defect in another's life,
But what I see in me.
I make so many fool mistakes,
I feel condemned to find
A bit of fault in anyone
When I'm so far behind.

I used to censure everyone;
I was a Pharisee
Until, quite unexpectedly,
I got a glimpse of me.
I tried to justify myself,
And frame some alibi;
But here I stood--caught by myself,
And I to me won't lie.

And now whenever I'm inclined
Some other's judge to be,
I always go and take a look
At him whom I call me.
I find it is a splendid thing--
Just try it and you'll see--
To keep from criticizing folk,
Let each "I" look at "Me."

---Herbert Buffum

E.U.

At the time that Columbus was discovering America, the Indians were operating underground mines for turquoise, emeralds, obsidian, and quartz. Los Carrillos turquoise mine, near Santa Fe, New Mexico, reached its peak about 1200 years ago.

--The Pyriter via Show-Me Newsletter

Gold has reached the \$120 an ounce mark and mines are reopening in Colorado, Nevada and California. This is the time for mineral collectors to do a little prospecting for new areas instead of visiting the localities week after week. You may find another mother lode, who knows.

AFMS Newsletter

DELEGATE'S REPORT

The Annual Meeting of the Nebraska Association of Earth Science Clubs, Inc. was held at 10:00 AM on Sunday, September 30, 1973, in the National Guard Armory in North Platte, Nebraska.

Officers present were: President, Leonard Hill; Vice-President, Howard Taylor; Secretary-Treasurer, Mary Wareham. Board of Directors present were: Harvey Kenfield and Laverne Lange. There were 33 Delegates present and 5 guests.

President Leonard Hill called the meeting to order, and the minutes of the 1972 meeting were read by Mary Wareham and accepted as read. The treasurer's report, also read by Mary Wareham, was accepted as read.

Charles Gaudreault, Field Chairman, announced that a Field Trip could be had to Hibbing, Minn to the Iron Mines, sometime in the later part of August of 1974. It was directed to go ahead with the plans with a motion by Marie Wells; motion carried.

It was announced by the Homestead Club, Beatrice, that they would like to have the Rock Swap in 1974, date to be announced later.

It was also announced and accepted that the 1975 State Show will be at Scottsbluff, Nebraska.

The Fort Kearney Club announced that they will have a two-day "Open House" in 1974, date to be announced later.

A detailed discussion was had on the Bureau of Land Management, postings, due to the use of Public Lands. Mr. Hill will appoint someone to comprise the wording to be used for a petition to be circulated in the various clubs for signatures, (not just club members, but anyone that would be interested, and not to be titled as a club endeavor), and then send the petitions to the Department of Interior and your Senators, and also those who wish to write individually to do so.

Copies of the Revised By-Laws were distributed to the Delegates.

New officers elected were as follows: President, Howard Taylor; Vice-President, Salma Hammond; Sec'y-Treas., Mary Wareham; Board of Directors, Ruby Price and Elbert Muirt.

The president asked the Lincoln Club representatives to give a report on the progress of the 1974 National Show, and the reports were made by the following: Norma Miller, Howard Taylor, and Ralph Ulrich. Meeting adjourned.

I would also like to add as to the State Show in general. It was well attended by the LGMC. There were 21 members at the Show and also a nice number of displays by our Club.

There were many different and very interesting displays among which was a Crystal City, faceted and displayed by Mr. Jerry Muchna from Phoenix, Arizona, which attracted many people.

The Show was well attended in spite of the weather.

--Luella S. Paul, Reporting Delegate

Nobody ever added up
The value of a smile;
We know how much a dollar's worth
And how much is a mile

We know the distance to the sun,
The size and weight of earth--
But no one's ever told us yet
How much a smile is worth!

--via Chips

ROCK SWAP

On August 4th and 5th the Lincoln Gem and Mineral Club held its 7th Annual Rock Swap.

On Friday evening campers and trailers started arriving at Military Park. By Saturday noon approximately eighteen units had arrived. A lot of swapping was done. Saturday afternoon our Field Trip Chairman, Larry Bigley, led a field trip to Weeping Water for fossils. A lot of Horn Coral and small shells were found.

Saturday evening there was a potluck dinner. Everyone enjoyed the goodies that were put out for this. It seems we have a lot of very good cooks in the Club.

The dinner was attended by about 90 people. After we ate, everyone enjoyed the fine music of the Oliver Polka Band. I received a lot of fine comments on how much they enjoyed the music. One couple from Cozad said they could listen to that kind of music all night.

Everyone was up early Sunday morning swapping, telling yarns, etc., and having a good time.

The field trip took off about 9:00 a.m. for Beatrice to find agates, petrified wood, etc. They returned around 1:00 p.m. in time to enjoy lots of watermelon, furnished by the Club. The auction began immediately afterwards and lasted about an hour.

We had the pleasure of having a lot of out-of-town guests at the swap. They were typical rock hounds, "nice people", and I do hope to meet them again next year.

Our expenses were	\$41.61
Auction brought in	72.46
Leaving a net of	30.85

--Don Carter

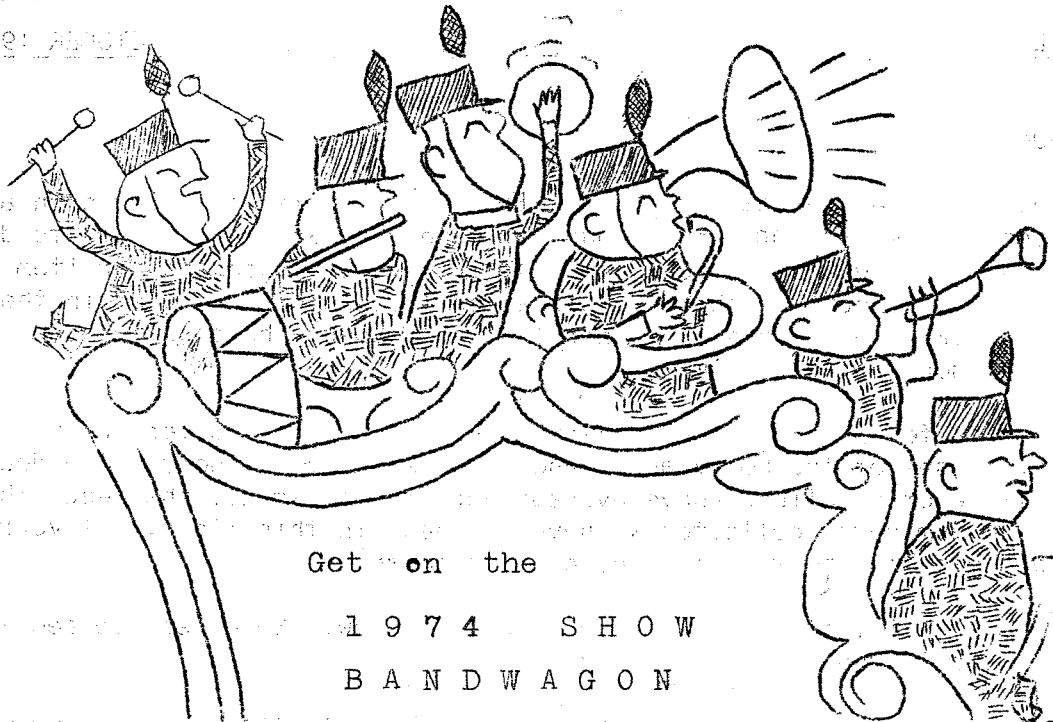
FLORA AND FAUNA FROM AN UPPER DAKOTA GROUP SHALE (CRETACEOUS) NEAR FAIRBURY, NEBRASKA--Roger K. Pabian, Conservation and Survey Division, Larry D. Martin and Robert Lindsay, Department of Geology, University of Nebraska

An abundant flora containing angiosperms, gymnosperms, and pteridosperms, and a small fauna of invertebrates has been collected from a shale in the Upper Dakota Group exposed in the Endicott Clay Product Company pit located south of Fairbury.

The bulk of the angiosperms seem referable to Aralia. Several gymnosperm strobili, probably Sequoia, have been discovered. Fragments of fern pinnae are also contained in the shale, and one specimen is referable to the genus Gleichenia. Many varied seeds and spores are contained in this flora, and carbonized wood remains are common. Most of the leaf impressions include the original cuticle layers which are in an excellent state of preservation. Upon bleaching the cuticle in an aqueous solution of sodium hypochlorite, the cell structure is readily seen. The presence of leaves with complete cuticle afford the authors an unique opportunity to compare the epidermal structure with megascopic evidence in identifying these specimens.

Invertebrates are represented by several species of bivalves.

--Reprinted for private circulation from the Proceedings of The Nebraska Academy of Sciences and Affiliated Societies. Vol. 79, April, 1969



Get on the
1974 SHOW
BANDWAGON

As I sit and ponder the events that have passed since last month, I find that we still have a long way to go. In fact, in less than nine months our Show will be here!

We went to Kearney October 1 and talked to their Rock Club about the '74 Show and some of the questions asked there were ones we have tried to answer before, but that's the way we all learn.

I think the most misunderstood item that keeps coming back is - Who can display? The separation between competitive and non-competitive, and then the cases that can be used.

To keep repeating myself over and over I want to say that anyone who is a member of a Gem & Mineral Club can display. Also we want all who meet this qualification to display. Second - everyone can display in the non-competitive section. Those who want to compete for trophies and ribbons can get full details from Roger Pabian, (Director of Displays, Box 5342, Lincoln, NE 68505). Third - Cases - we ask all who can to furnish their own case. I realize those who will come from a long distance and are unable to bring a case, we will have to furnish one for them - But we want to hold this to a minimum. I'm sure you can see that the case thing will be of greater proportion than we have ever run into before.

It is very important that all officers and liaison people who receive our literature for the '74 Show see that it gets into the hands of your members. You are our only link. If this paper work is held up it will break the link between your club and the '74 Show.

On September 16th a group of us met at the Fairgrounds and went through each building we will use. While there we had a couple things in mind. One - to get an accurate measurement of the buildings - where the posts were - where the dividers were - how the lights were set up - where the water was - restrooms and on and on. Second - how to utilize what we have.

I want to thank John and Dee Harrison, Ralph Ulrich, and Howard Taylor for the help they gave us on this project. I know we now have a better over-all picture of the whole system.

(continued)

1974 AFMS-MWF NATIONAL SHOW & CONVENTION and NEBRASKA STATE SHOW
June 13-16, 1974 - STATE FAIRGROUNDS, LINCOLN, NEBRASKA

PRELIMINARY GENERAL INFORMATION BULLETIN

The National Gem & Mineral Show for 1974 will be held in conjunction with the annual convention of the American Federation of Mineralogical Societies, The Midwest Federation of Mineralogical & Geological Societies and the Nebraska Association of Earth Science Clubs, Inc.

HOST CLUB - The Lincoln Gem & Mineral Club, with assistance from various member organizations of the Nebraska Association of Earth Science Clubs. (NAOESCI)

The NATIONAL GEM & MINERAL SHOW will be held in several buildings at the State Fairgrounds, 1500 N. 17th St., Lincoln, Nebraska.

OFFICIAL OPENING CEREMONIES of the Show will be held at 8:30 AM, Thurs., June 13, 1974. Show hours will be 9 AM to 9 PM each day except Sunday when the Show will close at 6 PM.

CONVENTIONS - The meetings of the American Federation and Midwest Federation of Mineralogical Societies will be held at the convention center - The Nebraska Center for Continuing Education, 1600 N. 33rd St. (33rd & Holdrege Sts.).

The meetings of the Nebraska State Association will be held in the Administration Building of the State Fairgrounds.

The meetings are scheduled as follows:

- Tuesday, June 11, 1974 - AFMS Uniform Rules Committee Meeting, Nebraska Center
AFMS-MWF Cracker Barrel, Nebraska Center
- Wednesday, June 12, 1974 - AFMS Officers Meeting followed by AFMS Scholarship Meeting, Nebraska Center
- Thursday, June 13, 1974 - Judges and Clerks Meeting, Nebraska Center
AFMS-MWF Junior Activities Leaders Meeting, Nebraska Center
- Friday, June 14, 1974 - AFMS-MWF Bulletin Editors Breakfast-Meeting, Nebraska Center
State Directors Meeting, Nebraska Center
MWF Executive Committee Meeting, Nebraska Center
- Saturday, June 15, 1974 - MWF Delegates Meeting, Nebraska Center
AFMS-MWF Awards Banquet, Nebraska Center
- Sunday, June 16, 1974 - Past Presidents AFMS-MWF Breakfast, Nebraska Center
NAOESCI (Nebraska Assn. of Earth Science Clubs, Inc.)
Meeting, Fairgrounds

PRE-REGISTRATION. - Due to price changes and inflationary controls, the prices of the meals involved in the various functions cannot be established until after Jan. 1, 1974, therefore pre-registration applications will be available after that date. You may obtain these by writing Norma Miller, Registrations Director, 931 Cottonwood Dr., Lincoln, NE 68510.

ADMISSION to the fairgrounds, which includes acres and acres of free parking for show attendants, will be for advance registrants, \$4 for the four days. Admission fee at the gate will be \$2 per day for an adult or \$5 for the four days. Children under 12 will be admitted free when accompanied by an adult, otherwise they will be required to pay \$1 per day. Persons between the ages of 13 and 17 may be admitted for one-half the adult fee except no discount for advance registration is offered for young adults or for children. All exhibitors and judges will be exempt from admission charge.

SPECIAL EVENTS - Our Special Events Committee is planning "fun things" - details of which are not all confirmed but we can tell you there are rumors of Polka Bands, Square Dances, outdoor Bar-B-Que, and MORE!

EXHIBITS - Requests for competitive and non-competitive display space should be sent to Roger Pabian, Displays Director, Box 5342, Lincoln, NE 68505. If it is impractical for visiting exhibitors to furnish their own cases there will be some Wichita (approx. 25"x20"x7") unlighted and/or Northwest Federation type cases available provided on a first-come-first-served basis. IF POSSIBLE we would appreciate it if you can furnish your own case(s). Exhibitors will set up beginning at 9:00 AM, Wednesday, June 12, 1974.

LECTURES - A series of lectures and illustrated talks has been scheduled with noted authorities to speak on subjects of interest to rockhounds and the public.

DEMONSTRATIONS - Skilled craftsmen will be on hand to demonstrate the cutting, sanding and polishing of cabochons, slabs and gemstones. Others will instruct in the art of casting, faceting, carving and jewelry making, etc.

DEALERS from all areas in the nation will present the best of mineral specimens, cutting materials, findings and supplies. Manufacturers and wholesalers will be on hand to show the latest in all types of rock cutting equipment. Dealers will set up between 8 AM and 6 PM June 12.

FIELD TRIPS (guided) will not be offered in conjunction with the show and convention however information on collecting sites can be obtained at the show or by writing Lincoln Gem & Mineral Club, Box 5342, Lincoln, NE 68505.

HOUSING - A list of hotels and motels is included in the information packet. Make your reservation directly to the place of your choice. A limited number of rooms are available at the Convention Center. Please address your inquiry to Dept. of Conferences and Institutes, 1600 N. 33rd St., Lincoln, NE 68503. (Make your reservation direct here also.)

CAMPING facilities are available for 450 units on the Fairgrounds (190 with hookups). Make your camping reservations with the State Fair Board, Box 81223, State Fairgrounds, Lincoln, NE 68501. Interstate Camp-Away (I-80 Downtown Exit) is nearby at 2nd & Superior Sts. and good campsites are available. More camping info is included with the information packet upon request.

SWAP AREA will be arranged right in one of the same buildings with the show activities. Tables will be furnished by the host club.

SYMPOSIUMS are being arranged for faceters, micro-mounters, Junior Activities Leaders, and workshops on "how to put on a gem show".

PHOTOGRAPHERS will be allowed to enter show area at 8:00 AM Sunday, June 16 (one hour before show opens) to take pictures unhampered by the viewing public.

G L E N N A ' S G L E A N I N G S

Congratulations to Howard Taylor on being elected president of the N.A.O.E.S.C.I. at the Club's annual rock show in North Platte this past month.

There's a lot of "sawing goin' on" at the Bigley residence since Larry got his new twenty-four inch saw.

C. Ray and Marian Waddle would like to thank the many members who remembered them with a card shower on the occasion of their Golden Wedding Anniversary this summer.

Ask Hazel Greenwade to show you her "braggin' size" amazonite that she found on a recent trip to Colorado. It's a doozey!

Bob & Carol Anderson are proud new homeowners. They moved into a mobilehome this summer in Gaslight Village.

Friends of the Traceys will be sorry to hear Maurice has been recently hospitalized. Cards and letters are in order.

Flossie Litzenberg received, for the Lincoln Garden Club, a first prize of \$200 donated by Sears, for that organization's two-year project of tree planting.

Caught a glimpse of Frank Kreeji "doing his thing." He's painting their house a lovely sunshiny yellow. With the rain & all, well!

The Lincoln club was well represented at the Topeka rock show recently. Prominently displayed was the club's 1974 show banner, and the "white hats" were, as always, a conversation piece. Good publicity, huh?

Till next time--Glenna McGinnis

TOM AND LEFTYS ROCKSHOP

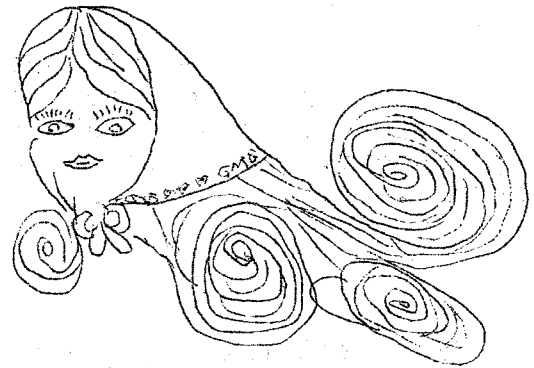
6333 KEARNEY STREET

PHONE 466-1697

NEW 20 inch SAW for CUSTOM CUTTING

RAINBOW AGATE MEXICAN MOSS AGATE

JEWELRY



My thanks to Brent Jones for this very fine article on collecting in Kansas. This goes to show what a fine contribution our Junior members can make to the Club. Let's have some more articles written by our Juniors. An article such as Brent's is just what we've been wanting.---E.U.

THE KANSAS CHALK BEDS

My first trip to the chalk beds was when I was about four years old. The only item we knew how to collect was sharks' teeth. Each time we returned to the chalk beds we learned about other items to collect. The most we have found is Dendritic Opal, Petrified Wood, Volcanic Ash, Pop Rocks (Marcasite), Artifacts, Sharks' Teeth, Fossil Fish, Brown Barite, Mollusk Shells, Kansas Diamonds (Quartz), and many items we have not identified.

About three miles south of Quinter is the Big Creek that cuts through the chalk beds, and about 20 miles south the Smoky Hill cuts larger and deeper canyons into the chalk and blue shale.

The light yellow to white chalk underlies the rich top soil and subsoil. Beneath a 10-40 foot layer of chalk is a much thicker layer. The State Geological Survey ages these layers in the Tertiary and Pleistocene periods. The best collecting is in the lower five feet of the chalk or the base of the canyon where the debris accumulates.

In some areas the limestone caps the chalk preventing erosion. This allows various spires of limestone, chalk and shale to rise above the flat plains. Castle Rock is one such spire, located 23 miles southeast of Quinter. Castle Rock is about 70 feet tall and 20 feet thick. The spire is more than 200 yards from any other chalk bluffs. It is now a National Landmark and a landmark for the Butterfield and Overland Trails, with the ruts of the trails still deeply imprinted in the pasture land. About 30 miles up the Smoky Hill River is another famous natural spire, the Pyramids and the Monument Rocks. This is a whole city of 83½ foot tall spires.

My favorite hunting area is in Babcock Canyon. Its location is 21 miles south of Quinter and has a floor width of a mile, with the canyon running about six miles in length. Each time we hunt there we hunt in the same branch, but we do know it is good hunting. Our past trip yielded 24 sharks' teeth, 100 pounds of pop rocks (Marcasite), three very fragile fish, some wood and lots of junk that we like.

--Brent Jones

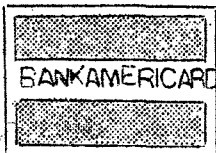
Actor Marlon Brandon has given the Bishop Museum of Honolulu permission to conduct a three-year archaeological and historical survey on his atoll, 35 miles north of Tahiti in the Society Islands.

Several more, or Polynesian temples, were recently unearthed there by workers building a small airstrip, a museum spokesman said. After learning this, Brando ordered a complete survey of the atoll.

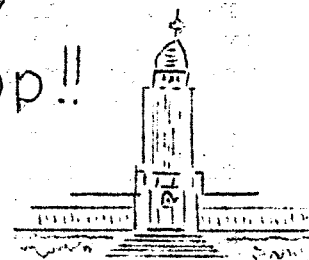
--Rapid City Journal, via Points of Interest

Everett Lapidary Shop

capitol city's first rock shop!!



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Do You Have Radioactive Rocks in Your Collection?

On July 16, 1945, the first nuclear blast occurred at Trinity site, New Mexico. As a result of this blast, a glassy green mineral called trinitite was formed. In 1953, the site was opened to the public one day a year, the first Sunday of October. About 20,000 people have visited the area, and most have gone home with a fragment of trinitite.

A recent study by the University of New Mexico analyzing trinitite specimens showed all the rocks to be radioactive. Some rocks, if carried next to the body for 12 hours a day, would give a person a radiation dose almost 200 times the limit of the Atomic Energy Commission.

No one knows how much trinitite has been removed from the site, but the Alamogordo Chamber of Commerce has encouraged visitors to collect the rocks, and a mail order supply house sells the rocks through the mails.

--from an article by Thomas O'Toole, Chicago Sun-Times, Nov. 1, 1972, via SIES Club News, 12/72

This is the beginning of a new day which God has given me to use as I will. I can waste it or use it. What I do today is important because I'm exchanging a day of my life for it. When tomorrow comes, this day will be gone forever, leaving in its place something that I have traded for it. I want it to be gain, not loss, good not evil, success not failure in order that I shall not regret the price I paid for it.

--via The Conglomerate

A NEW FIRE OPAL DIGGING AREA

On the western slope of a beautiful mountain only 15 minutes drive, 7 miles off Interstate 15 from Spencer, Idaho, we have recently opened up new diggings which we think is the best and largest deposit of precious opal in North America.

Our stones have some fracture as does most all opal, however, we are finding some large, perfect and brilliant stones. Some black opal is also found. My wife and I each wear a black stone.

The mine will be open for digging to rockhounds and dealers from May 27 to Nov. 20, weather permitting. Digging hours will be daily 8:30 AM to 4:30 PM. A fee of \$15 per day will be charged for each digger 13 years of age or over except those over 65 the fee is \$12.50 Children 8 thru 12 Years of age will be ½ price. Non diggers that would like to pick up specimens in the tailings will be charged \$1.00 per day.

We are now booking reservations for \$2.50 per day deposit, which will be deducted from the digging fee. If we cannot give you the dates you request, we will let you know what dates near your request are open. If we cannot give you a reservation, your money will be returned. Your reservation deposit will be refunded if you wish to cancel at least 7 days before the day of reservation. In case inclement weather prohibits digging, reservation fees will be refunded.

Our opal is in rock which, for the most part, is not too difficult to break. Best to bring heavy boots, crack hammer, pry bar, pick, chisels, goggles, gloves, drinking water and lunch. Some tools are available at mine.

Transportation from Spencer to and from mine site is available if desired. Last 2 miles are upgrade. A sedan car can pull a small trailer only. Best to check at Spencer Office. Parking space for campers and self-contained trailers is now available. Showers and trailer hookups will soon be under construction.

Gas and groceries are available at Spencer, Idaho. Nearest sleeping accommodations, 15 miles to the south at Dubois, Idaho, is the Cross Roads Motel and Cafe. Seventy-five miles south at Idaho Falls, Idaho, you will find unlimited accommodations. Other accommodations can be had at Lima, Montana, which is 35 miles north of Spencer, Idaho. Three miles north of Spencer, Idaho, on Beaver Creek is a Forest Service camp ground. Trout fishing is usually good here.

For additional information about the new Fire Opal Mine near Spencer, Idaho, write to:

Jeppesen Wilson Mining Company
Route #2 Box 156
Idaho Falls, Idaho 83401

Phone 522-7897 8 PM to 9:30 PM only

After May 14, thru Nov. 1, our headquarters and mailing address will be Spencer, Idaho 83446, phone 374-5482.

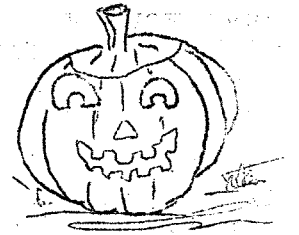
C. P. Jeppesen, Leasor and Operator
via The Rock-A-Teer

HELP ELIMINATE LITTER PLEASE !!

via The Rear Trunk

OCTOBER

Eighth month of old Roman Calendar which began in March. Several attempts were made to rename the month in honor of the emperors. It was temporarily known as Germanicus, Antoninus, and Hercules. The Slavs called it "yellow month" from fading of the leaf. The Anglo-Saxons knew it as "Winterfylleth" because at this full moon (fylleth) winter, was supposed to begin.



The birthstone for October is the Opal with Tourmaline the alternate stone. The Astral stones are Chrysolite (Topaz) and Beryl. The zodiacal sign is Scorpio.

THE OPAL

Black Opal is regarded as an exceptionally lucky stone. Formerly black opals were artificially made by dipping light-colored stones into ink, or by allowing burnt oil to enter cracks in the stone provided by heating.



About 1900 deposits of natural black opals were found in the White Cliff region of New South Wales. Exceedingly beautiful gems were secured from this area. They had wonderful flames of green, red, and blue in a black field. \$2,000,000 worth have been sold.

Jewelers considered Opals unlucky stones because they often fractured in the process of cutting.

From the book The Curious Lore of Precious Stones by George Frederick Kunz. Copyright by J. B. Lippincott Co. Renewal 1941 by Mrs. Ruby Kunz Zinsser. Used by permission of J. B. Lippincott Co.

JUST MISSED Glenna's Gleanings with this interesting bit. Perry and Norma Miller proudly announce a new little member in their family - a grand-daughter name of Heather Christine, born on September 23, 1973. Parents of the little jewel are the Miller's eldest son Stan and his wife Shari who live in Stillwater, Minnesota. This lovely week-end found the Millers and Perry's mother, Great Grandma Miller, making the acquaintance of Heather at her home.

reported by P.Parks

"One of our most valuable commodities is TIME. Trouble is it keeps on running out for all of us. Use it wisely and conserve."

from Ford Times

OPAL MOSAIC TRIPLICATE

Have you ever wondered what you could do with some small opal chips with a nice fire but which are too small to cut a cabochon? Very lovely patterns and effects can be achieved by making them into an Opal Mosaic Triplicate.

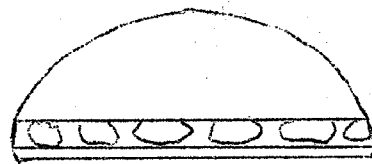
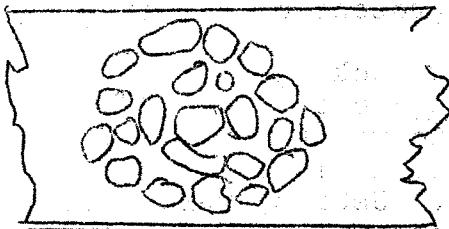
First, grind the opal chips you intend to use for one cabochon about 1/16 inch thick. Trim and smooth the edges and be sure to remove all matrix. The backing may be obsidian or some other dark material which will bring out the color of the opal chips. Prepare the backing by sanding flat on one side, but DO NOT POLISH! Do the same with a piece of clear quartz about 3/32 inch thick.

On the sticky side of a piece of masking tape, mark the size and pattern you want to make. Then place the opal chips so that they will stick, to cover the design, leaving a fine space between each piece. Let the edges of the opal chips overlay the design where necessary, as these will be shaped off in the capping.

Next, mix epoxy cement with a little lamp black, rub it on the opal and between the spaces left with a toothpick, rub additional epoxy cement on the backing piece, press the two together and leave to set overnight.

After it has set, peel off the tape and sand the surface very lightly. Wash both the opal surface and the quartz surface to be bonded with alcohol. Mix clear epoxy cement and rub on both the opal and quartz as a thin film. Leave set for 12 to 24 hours. Then you can shape and cab the piece. Be sure when you cut that you cab so that the bezel set will cover the edges of the opal. This results in a very durable and individual looking cabochon as an infinite variety of opal and different patterns may be used.

By Robert Jones-----From The Southwest Gem, Texas/T-Town Rockhound
via Gemdrops

SPARKLING JEWELS

Autumn spilled her jewels!
They rolled in gay confusion
To cover all the countryside
In colorful profusion.

Garnets deck the oak tree,
The pond a sapphire holds,
The wheatfield glows with amber,
The birch is strewn with gold.

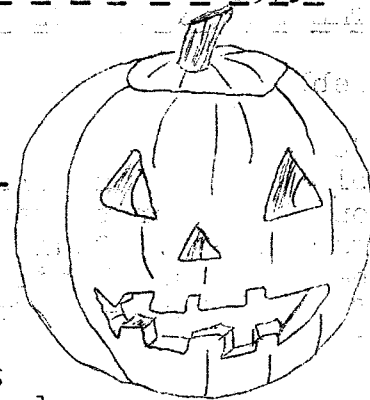
Rubies sparkle yonder
Where the woodbine tendrils twist,
The asters by the roadway
Are scattered amethysts.

And in the bright cold morning,
On every leaf and stem,
The frosty diamonds glitter
Among the other gems.

A reward of joy is offered you
Who find just where they lay....
Joy and shining memories
To light a winter day!

Author---Doris Locke
from the Thanksgiving issue of
Ideals via The Nishna Valley Grind-
stone--via The Rear Trunk

PEBBLE PUP PAGE



Pebble Pups in the News:

Sandra Lee Wright and Brent Jones, winners of purple ribbons at the County Fair, had their prize-winning cases on display at the September meeting of the LGMC. They were very attractive, and certainly worthy of receiving first place. It is amazing to see such professional-looking displays made by young people of their age. Much credit should go to Marie Wells, who organized this group. She is doing a wonderful job. We are looking forward to having our Pebble Pups hold a prominent place in the club.

One of the requirements for first-year members of Petrified Pebble Pups was to write a story about their 4-H experiences. This was a part of their final report.

MY 4-H GEOLOGY STORY

We went to Wilber & it was hard to get up the rockpile, & I kept sliding down.

In one of our meetings we all learned our birthstones.

I went to Elephant Hall & saw some bones. Some cards said the earth & bones were millions of years old. But I don't believe that 'cause God said He made it (earth) in 7 days. It hasn't been a million years B.C.

--By Grace Piper

By belonging to this 4-H club I found new friends that are interested in rocks. Mrs. Wells was a good leader. She always brought rocks to the meetings and helped us identify them. I liked going to the museum.

Our family went on several outings looking for rocks. They are becoming more rock conscious too. It has brought our family closer together.

Brent Jones and his family invited me to join them on a couple of trips, which I enjoyed very much.

I've owned a rock tumbler for a few years. Some day I hope to own a rock cutter.

I think collecting rocks is a fascinating hobby. There is always something to learn.

--By Lee Pivonka

At the meeting we talked about what some of the rocks looked like and their hardness. Me and Sandra ^{did} a demonstration of safety, and showed what a tick looks like. I went to Unadilla with Mrs. Wright and found crinoid stems. We went to Texas in June to the Gentry farm Brownwood, Tex. We found crinoid stems, Bivalves, Brachiopods, Gastropods, ectoprocts, and other unidentified fossils. Ground was clay and dirt around tank dam, and another area was in a gully wash in the pasture. Me and my Mom went to Western Sand & Gravel and found Flint, Quartz, Agate, Petrified wood, Fossils. We also visited the State Museum at the U. of N. We saw all kinds of rocks, minerals & fossils.

--By Mary Green

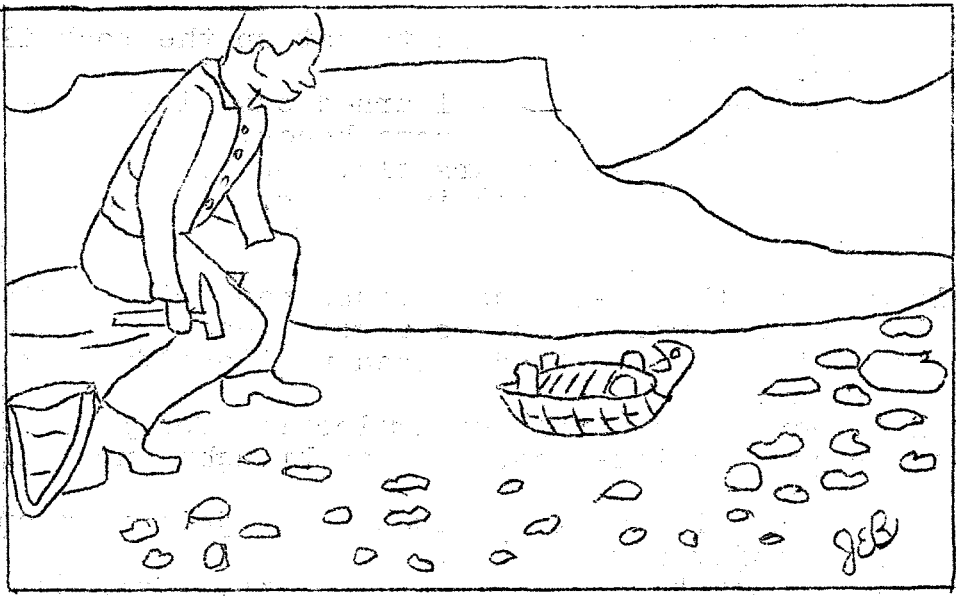
Continued next page

Pebble Pup Page, continued

"Our Pebble Pups will be glad to know that in the old days, all pebbles were considered lucky. These small stones were scattered about on the floor to keep witches away. They helped in getting rid of warts, too. Count the number of warts and bury the same number of pebbles; supposedly the warts will disappear, but no time is allotted for the "cure". Small, black, kidney-shaped stones were potent charms against the evil eye."

"Pebbles with a hole in them were especially desirable and larger stones with a hole were used to prevent nightmares, bewitchment, and to insure the loved one's affection. Bruises and concussions were treated by being bathed with water in which red-hot stones had been placed. Any stone with a complete circle of a different color was much sought after as a "lucky stone" to wear or carry."

--Margaret Drake Elliot
via The Prospector and The
Jaspilite



A chip on the shoulder, among other things,
means there is wood higher up.

The use of safety goggles is not limited to field trips...
They are just the thing to wear when eating grapefruit!!!

If you have a plastic wrap stuck to the fry pan or toaster remove it
with nail polish remover. --Palomar Gem and Mineral Club;
Black Hills Prospector, via
Points of Interest



SAFETY PAGE

With the season for rock-hunting about over, more time will be spent using equipment. The following checklist from the Northwest Federation Newsletter via Magic Valley Gem News seems appropriate at this time.

FAULTY AND/OR IMPROPER PHYSICAL CONDITIONS	<u>O.K.</u>	<u>N.G.</u>
Poor natural and/or artificial lighting	_____	_____
Improper location of machines	_____	_____
Failure to allow a margin of safety (safety zones)	_____	_____
Unguarded belts, pulleys, gears, blades and cutters	_____	_____
Dull tools and machines	_____	_____
Unguarded switches	_____	_____
Waste and scrap material on the floor and a disregard of oil spots	_____	_____
Improper type of clothing worn	_____	_____
Inadequately protected stairways to basements and ladders leading to balconies and platforms	_____	_____
Poorly constructed storage racks holding rough material, slabbed rocks, and other supplies	_____	_____
Lack of ventilation in areas of fumes and dust	_____	_____
 INEFFICIENT AND INEFFECTIVE WORK HABITS AND PROCEDURES		
Lacking of knowledge of how to use tools and machines	_____	_____
Failing to follow adequate preliminary instruction	_____	_____
Allowing irresponsible youth to work in shop without supervision	_____	_____
Removing machine and equipment safety guards	_____	_____
Failing to wear eye protection	_____	_____
Experimenting with equipment beyond its intended use or capability	_____	_____
Failing to take the proper attitudes toward the problem of accidents	_____	_____
Failing to check the set-up of each machine before operation	_____	_____
Failing to provide for adequate ventilation	_____	_____

FIRE SAFETY

Most families have one or more fire extinguishers in their homes and garages. Many carry one in their car, too. All members of the family should know where the extinguisher is and how to use it. Many people purchase an extinguisher and neglect to have it checked at least once a year and recharged when needed. Campers should always carry extinguishers and have them readily available for use. Check to see how flammable the materials in your camper, sleeping bags or bedding are.

from AFMS NEWSLETTER by Max Holliday,
MWF Safety Director

EXERPTS FROM AMERICAN FEDERATION NEWSLETTER

The Director of the Bureau of Land Management (BLM) will have authority over the two new areas which were opened to mineral collectors Aug. 13, 1973. These are Emerald Creek Garnet location on the St. Joe National Forest in Idaho and the Moat Mt. Smoky Quartz Area in the White Mts. National Forest in New Hampshire. BLM is authorized to establish the fee to be charged collectors and to impose such conditions as they deem fitting. The amount of material will be limited over a period of time; the kinds of tools will be dictated --- explosives will be prohibited; resources will be protected and safety provisions will be made. District Rangers will give permits and the area will be marked with boundary signs. Maps will be available from the Forest Service. We hope that BLM will follow the suggestions which were prepared by the Northwest Federation.

By Kenneth Zahn---AFMS Newsletter
Recreationists and preservationists are faced with a knotty "conflict-of-interest" problem as hordes descend on Yellowstone and the Great Smoky National Parks. We have heard many heated arguments from both sides concerning their problem. The bears have been pushed into the boondocks, off welfare, and campers are being turned away with the explanation that the National Park Service does not have funds to provide more campsites. We feel that NPS should preserve some wild areas where a person can back pack and feel close to nature; however, America is starved for outdoor recreation, away from traffic and smog so campsites should be provided wherever possible. Less than 10% of Yellowstone is accessible to families and less than 5% backpacking. Perhaps more campsites should be provided but away from scenic or fragile areas. Most persons can and should do some walking and the park planners should assist them wherever possible. However, in Yellowstone when Superintendent Anderson directed persons to sparsely settled camp-sites they came back remarking, "That is wild back there, where are the people?" Modern youth is screaming for preservation but they seem to drift toward the communal living. The Park Service, pressured by the concession owners believe that the day will come when overnight accommodations will have to be placed outside the park to protect the natural wildlife chain.

By Kenneth Zahn---AFMS Newsletter
Lapidary Journal inaugurates new show listing system. Beginning with the new August issue the Lapidary Journal has designated with a printers symbol () each show which is not club sponsored. Some of the shows so designated are sponsored by Chambers of Commerce or Civic Clubs, some by corporations, groups of dealers, or even private individuals. The symbol only shows that the show is not club sponsored, for the benefit of those who want to know.

As a privately owned business the Lapidary Journal is not the voice of any Federation, and has many subscribers who do not belong to a club or a Federation, so the magazine can not list club events only. However the Lapidary Journal does give more space to listing and promoting club and Federation shows than any other magazine in the field.

It would be helpful if shows writing in for their free listing would indicate the type of sponsorship of the particular show. This is sometimes difficult to tell since many clubs sponsor mall shows, and there is a similiarity in many of the show names. Also show publicity should be sent in at least 45 days, and preferably 60 days before it is to appear. More time is needed if there are pictures of if there needs to be a rewrite of follow-up, and also time must be allowed for somewhat slower mail service in many areas.

Midwest Federation's NEWSLETTER



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

Issue No. 138 - October 1973

Executive Committee Meets Nov. 3rd

MWF President-Elect, Mark Harris, has announced the fall meeting of the Executive committee will be on Saturday, Nov. 3 at Hammond, Ind. The Howard Johnson Motor Lodge will be the site of the meeting.

Installation of the new officers elected at Cincinnati, Ohio in July will be a feature of the meeting.

Complete information will be mailed to all committee members.

Will Rewrite Operations Manual

A committee headed by Russell MacFall will rewrite the MWF Operations Manual. It has been sometime since the manual was updated and it has been out-of-print for many months.

Committee chairman will have the opportunity to contribute to the manual as to their duties and respective responsibilities.



Johnny Horizon says
**THIS IS YOUR LAND
KEEP IT CLEAN**

1973-1974 MWF OFFICERS TAKE OFFICE NOV. 1st

President

Mark Harris, 607 Marion Dr., Columbia, Mo. 65201

First Vice President

Terry Huizing, 5341 Thrasher Dr., Cincinnati, O. 45239

Second Vice President

Howard Taylor, 910 New Hampshire, Lincoln, Neb. 68508

Secretary

Miss Jean Reynolds, 107 Tuttle Ave., Clarendon Hills, Ill. 60514

Treasurer:

Mrs. Joseph MCloskey, P.O. Box 527, Elm Grove, Wis. 53122

Error Found in Uniform Rules Orange Book

"A proof reading oversight has been found on page 14 of the new Edition of the AFMS Uniform Rules (orange book). The last two lines (three sentences) should read: See Rules 7.5. and 7.6. Duplication is also restricted for these classes. See Rule 7.7 (a).

"The AFMS Uniform Rules Committee welcomes having its attention drawn to any other such oversights that might be found and thank you for your attention and concern."

Cincinnati trophy winners

Sixteen of the twenty-one available trophies were awarded for competitive exhibits at the MWF Show at Cincinnati in July. The Uniform Rules Committee feels that the quality of exhibits showed a marked improvement over previous years. The winners listed below are to be congratulated as the competition was very tough.

1. Minerals
Carlton M. Davis, Columbus, Ohio Columbus Rock and Mineral Society.
2. Miniature Minerals
John C. Medici, Dublin, Ohio, Columbus Rock and Mineral Society.
3. Thumbnail Minerals
Carlton M. Davis, Columbus, Ohio, Columbus Rock and Mineral Society.
4. Micromount Minerals
Bruce Lauer, Villa Park, Illinois, Earth Science Club of Northern Illinois.
5. Minerals, Jr. Group
Mark Lytle, Cincinnati, Ohio, Cincinnati Mineral Soc.
7. Cabochons
David B. Miller, Flint, Michigan, Flint Rock and Gem Club
8. Specialized Lapidary
Donald Diller, Fort Wayne, IN, Three Rivers Gem & Mineral Society.
11. Fossils
Betty Crawford, Mansfield, Ohio, Richland Lithic & Lapidary Society.
12. Fossils, Jr. Group
Bruce Kreis, Ada, Oklahoma, Richland Lithic & Lapidary Society
13. Jewelry & Metal craft
Janet Diller, Fort Wayne, IN, Three Rivers Gem & Mineral Society.
14. Educational
Fred A. Bermke, Milwaukee, Wis., Wisconsin Geological Society.
15. Educational, Jr. Group
Chris Claybaugh, Cincinnati, Ohio, Cincinnati Mineral Society
16. Society
Columbus Rock and Mineral Soc., Columbus, Ohio

17. Jr. Society
Cincinnati Mineral Soc., Jr. Club, BSA Troop 634, Cincinnati, Ohio
18. Archaeology
Glenn R. Hanning, Huntsville, Ill., Siloam Springs, Earth Science Club
19. Minerals, Personally Collected
John C. Medici, Dublin, Ohio, Columbus Rock and Mineral Society.

--Barney Parr, Uniform Rules Chairman

Bulletin winners

The following were the 10 top bulletins at the Cincinnati show. In addition the top 3 one and two page bulletins which were judged in a separate category.

First: Mr. Ellis Courter, editor "The Conglomerate", Michigan Mineralogical Society.

Second: Mrs. Norma Miller, editor "The Pick and Shovel", Lincoln Gem and Mineral Club, Inc.

Third: Mr. Willard Lamb, editor "The Pyriter", Dallas County Rock Club.

Fourth: Mrs. Betty C. Rasmussen, editor "The Niagara Ledger", East Central Wisconsin Rock and Mineral Club, Inc.

Fifth: Mr. Willis D. Smith, editor "The Geode", McDonnell Douglas Gem and Mineral Society.

Sixth: Miss Marcella Langfeld, editor "The Pick and Dop Stick", Chicago Rocks and Minerals Society.

Seventh: Mrs. Helen Beck, editor "The Earth Science News", Earth Science Club of Northern Illinois.

Eighth: Mr. Arthur Ferguson, editor "The Glacial Drifter", Grand Rapids Mineral Society.

Ninth: Mrs. Joyce Hanschu, editor "The Rockpile", Midwest Mineralogical and Lapidary Society of Dearborn.

Tenth: Mrs. Renie Love, editor "San Script", Duneland Rock Club, Inc.

One and two page category:

First: Mrs. Carroll Pike, editor "Pebble Prattle", White River Gem Society, Inc.

Second: Mrs. Elsie Popejoy, editor "The News", The Cornbelt Lapidary and Geological Society.

Third: Mrs. Ruth E. Davis, editor "Central Missouri Rock and Lapidary Club, Inc Newsletter", Central Missouri Rock and Lapidary Club, Inc.

Paul W. Good, Chm.

LINCOLN GEM AND MINERAL CLUB, INC.
P.O. BOX 5342, LINCOLN, NE. 68505

The purpose of this corporation shall be to **study**, promote an interest in, and disseminate knowledge of lapidary and various Earth Sciences including but not necessarily limited to geology, paleontology and mineralogy. It shall be a particular purpose of the corporation to provide education in these fields to its members and the general public, particularly youth and student groups.

MEMBER: Midwest Federation of Mineralogical and Geological Societies (MWF)
American Federation of Mineralogical Societies (AFMS)
Nebraska State Association of Earth Science Clubs, Inc. (NAOESCI)
Community Arts Council of Lincoln (CAC)

REGULAR MEETINGS: 4th Saturday of the month, 7:30 PM, September thru May
W. O. W. Bldg., 732 S. 27th St., Lincoln, Nebraska

1973 ELECTED OFFICERS:

President-----	Roger Pabian	300 Sycamore Dr. Lincoln, 68510	489-3081
1st Vice Pres.-----	Ralph Ulrich	3909 Pace Blvd. Lincoln, 68502	423-0484
2nd Vice Pres.-----	Don Lawson	6328 X Street Lincoln, 68502	434-2427
Rec. Secretary-----	Nelda Oliver	5700 Otoe St. Lincoln, 68506	489-5222
Treasurer-----	James Parks	2435 S. 19th St. Lincoln, 68502	423-6798

1973 BOARD MEMBERS:

Tom Simmons-----	2970 South Street	Lincoln, 68502	488-1619
Howard Taylor-----	910 New Hampshire	Lincoln, 68508	432-3707
Don Eckel-----	3858 Randolph St.	Lincoln, 68510	488-3678
John Harrison-----	Hickman, Nebraska	68372	792-3825

STANDING COMMITTEE CHAIRMAN:

Liaison-----	Roger Simmons		
Hospitality-----	Virginia Green		
Refreshments-----	Bob & Carol Anderson		
Membership-----	Marita Bigley		
Vaja Con Dios-----	Marie Carveth		
Historian-----	Frances Tracy		
Librarian-----	Kathryn Ulrich		
Housing & Property-----	Frank Rule		
Field Trips-----	Larry Bigley		
Education-----	Phyllis Parks		
Program-----	Marie Wells		
Calling Committee-----	Wilfrid & Ollie Wittman		
Community Arts Council-----	Rev. Raymond Pfeiffer		
NAOESCI Reporter-----	Norma Miller		
Betty Crocker Coupons-----	Helena Baegl		
1973 Show Chairman-----	Ralph Ulrich	3909 Pace Blvd.-Lincoln, Ne. 68502	423-0484
1973 Rock Swap -----	Don Carter	-1101 Driftwood Dr. Lincoln, Ne. 68510	489-3442

1974 SHOW STEERING COMMITTEE:

Chairman-----	Ralph Ulrich	Vice Chairman---	Howard Taylor
Sec. & Show Dir.-	Irl Everett	Financial Chmn.-	Bruce Simon

PUBLICATIONS CHAIRMAN:-Art Howlett

Publisher-Phyllis Parks

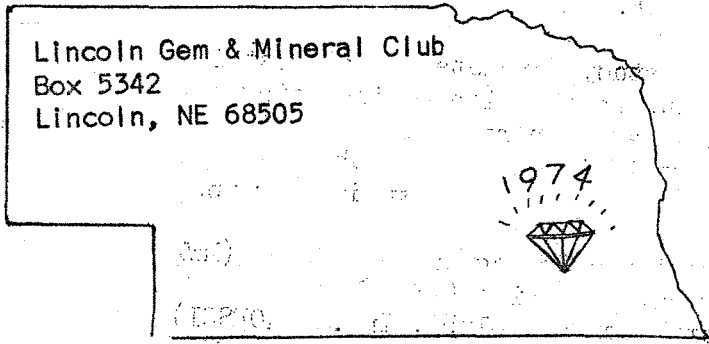
PICK & SHOVEL STAFF:-Editor-Evelyn Ulrich-3521 S. 48th St. Lincoln, Ne. 68506 488-9051
Typist-Jan Holmquist, Eileen Stroud, Norma Miller

Contributions from members are welcome. Deadline for material is the 5th of the month. Please send to the editor. (Typed if possible)

Articles published in the PICK & SHOVEL may be reprinted if credit is given the author and the bulletin, and a copy of the publication sent to the editor.

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Nat'l Gem & Mineral Show
June 13-16 Lincoln, Nebr.

Historian
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Lincoln, NE 68506

HOST TO

NATIONAL GEM AND MINERAL SHOW, June 13-16, 1974

LINCOLN GEM & MINERAL CLUB 15th ANNUAL SHOW - May 12 & 13, 1973
Exposition Bldg., Nebraska State Fairgrounds, LINCOLN, NEBRASKA

NEBRASKA STATE SHOW - Sept. 28-30, 1973, North Platte, Nebraska

MIDWEST FEDERATION SHOW & CONVENTION - July 26-29, 1973

Convention Center, Cincinnati, Ohio

"PROGRESS THROUGH PLANNING & PARTICIPATION" - Lee Kirby, '73-MWF President

H. E. L. P. Help Eliminate Litter Please

