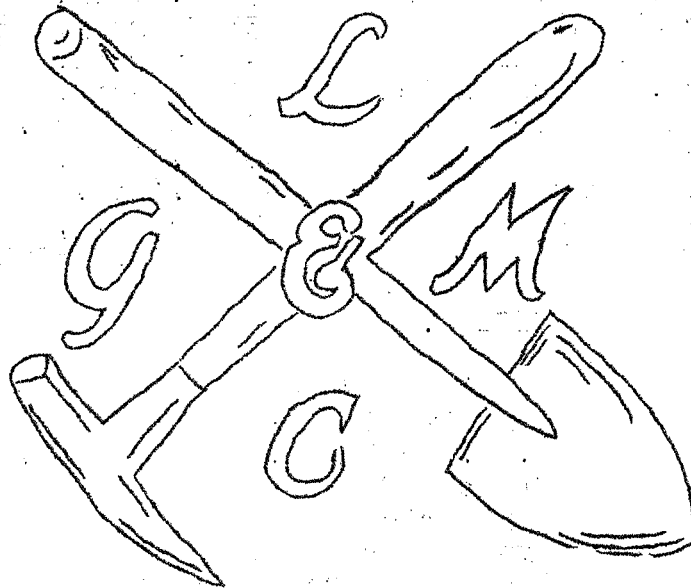


THE PICK & SHOVEL



Official Publication of
THE LINCOLN GEM AND MINERAL CLUB, INC.

Box 5342
Lincoln, Nebraska

April 1970

Affiliated with
MIDWEST FEDERATION OF MINERALOGICAL AND GEOLOGICAL SOCIETIES
AMERICAN FEDERATION OF MINERALOGICAL SOCIETIES
NEBRASKA STATE ASSOCIATION OF EARTH SCIENCE CLUBS, INC.

THE PICK & SHOVEL

Official publication of Lincoln Gem & Mineral Club, Inc., Box 5342, Lincoln, NE 68505, published Sept. thru May, 10 days prior to the meeting date of the club.

The Lincoln Gem & Mineral Club meets at the W.O.W. Bldg., 732 S. 27th St., Lincoln, NE, on the 4th Sat. of the month, Sept. thru May.

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.

ELECTED OFFICERS FOR 1970

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2nd Vice-Pres	C. Ray Waddle	2640 Everett, 68502	423-3196
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	Roger Pabian	300 Sycamore, 68510	489-3081
	Lynn Wells	2940 Vine, 68503	435-6758

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Field Trips	Tom Simmons
Program	G. W. McKinney, Frank Marsh, Darline Sprick
Historian-By Laws	Frances Tracy
Library	Kay Ulrich
Membership-Guest Book	Lynn & Marie Wells
Refreshments	Eugene & Marcella Hilton
Coupons-Stamps	Helena Baegl
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Uniform Rules	Frank Rule
Housing & Property	Phyllis & Jim Parks
Rep. to Com. Arts Co.	Edith Holdorf, Norma Miller
Calling Committee	Glenna McGinnis, Nelda Oliver, Vi Van Cleave
Rock Swap - 1970	Howard Taylor and Crew
Communications-State Assoc.	-Norma Miller

STEERING COMMITTEE FOR 1974 FEDERATION SHOW: Ralph Ulrich, Chairman; Gene Eno, Vice-chairman; Irl Everett, Secretary; Bruce Simon, Financial Secretary; and Howard Taylor and Larry Rupert.

Editor Norma Miller, 931 Cottonwood Dr. 68510 489-3956
Co-Editor Phyllis Parks, 2435 S. 19th, 68502 423-6798
(Members of National Association of Bulletin Editors)

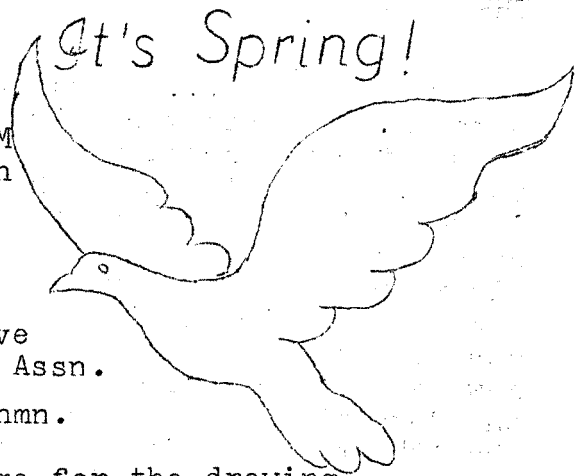
Articles published in the PICK & SHOVEL may be reprinted if credit is given and a copy of the publication sent to the editor. Annual subscription for the PICK & SHOVEL (which is automatically included with full club membership) is \$2.00 per year.

THIS MONTH

REGULAR MEETING...Sat. Apr. 25- 7:30 PM
WOW Bldg., 734 S. 27th

PROGRAM...Slide lecture -
"Mineral Exploration on the
North Shore of Alaska"
presented by a representative
from the National Petroleum Assn.

Mac McKinney, Program Chmn.



DOOR PRIZES...be sure to enter your name for the drawing

NEW MEMBERS: Farel Hyland, 6934 Frances, 68505, ph 466-3337
Mr. & Mrs. S. M. Lybyer, 1502 South St., 68502, 423-8016
Mr. & Mrs. Wilfred Wittmann, 3415 E. Pershing Rd., 68502
ph 423-4100
Lt. Col. Lee A. Mestas, 2060 N. 33rd, 68503

WHO'S WHO...Pick up your 1970 copy of the Who's Who at the April meeting. Bob & Nelda Oliver, and Jim, have spent many hours in its completion and we are most appreciative. Whenever there's a change in your address or phone number please advise the editors so we can keep our mailing list current.

FIELD TRIPS...See details in the following pages.

CALENDAR OF EVENTS:

Apr. 17-19	Central Nebr. Rock & Min. Soc. Show, Hastings, NE
Apr. 24-26	Wichita Gem & Min. Soc. Show, Wichita, KS
May 2-3	All Iowa Rock Roundup, Winterset, IA. Field trips.
May 9-10	Panhandle Rock & Gem Club Show, Scottsbluff, NE
May 16-17	Picture City Gem & Min. Soc. Show, Hot Springs, SD
May 16-17	Kalamazoo Geo. & Min. Soc., ROCKRAMA, Kalamazoo, MI
May 23-24	Central Nebr. Rock & Min. Soc. SWAP, Crystal Lake, Ayr, NE
June 6-7	Rock-A-Bully SWAP, Fairgrounds, Lexington, NE
June 6-7	Siouxland Gem & Min. Soc. Exhibit, Sioux City, Iowa
June 18-21	Gem Fiesta, Convention Center, Ft. Worth, TX
June 19-21	Wyoming Gem & Min. Soc. State Show, Rawlins, Wyo.
June 27-Jul 4	N.A.O.E.S.C.I. Field Trip to Wyoming (meet at Farson 27th or 4th)
July 23-26	MWF Convention & Show, Minneapolis, MN
Aug. 2	Coron Palace Rock Club SWAP & Picnic, Mitchell, SD
Aug. 15-16	Northwest Nebraska Rock Club Show, Crawford, Nebr.
Sept. 5-7	Nebraska Mineral & Gem Club Show, Omaha, Nebr.
Sept. 26-27	Lincoln Gem & Mineral Club Show, Lincoln, NE
Oct. 16-18	Platte Valley Rock & Min. Soc. Show, North Platte, NE

LATE ADDITION...Free Hobby Show, Sunday, May 31, sponsored by the North Central Nebraska Rockhounds, Ainsworth City Hall Ainsworth, Nebr..

NEEDED...Mammoth tooth for the N.A.O.E.S.C.I. traveling display case, the one on display at the State Show in Kearney was a temporary loan. If interested...call Norma, NAOESCI correspondent.

last month...attendance was 63 members, 13 guests and 6 junior members. Reports were given by committee chairmen. Coupons and stamps for the scholarship fund, chaired by Helena Baegl, now amounts to \$23.72. (We're $\frac{1}{4}$ of the way to 100% in 3 months time...let's see if we can't go over the top by December.) Tom Simmons reported on a tentative agenda for field trips and this info will be found elsewhere in this issue of P & S. The Rock Swap will not drop for lack of a chairman, it is hoped a contact will come through with a quantity of jade for sale or swap. Norma Miller reported on the new mailing procedure and the amount of postage we are saving under the Community Arts Council permit. Progress of the policy file for the '74 Show was given by Ralph Ulrich. The 1970 membership cards for the State Association (N.A.O.E.S.C.I.) were given to those present. The remainder may be inserted in the Who's Who if not picked up prior to its mailing. The slide library is progressing under the direction of Mr. Waddle...completion should be made by fall. Tom Simmons suggested a mineral display, similar to "Gems on Location", be assembled. A surface map of the United States, 26" by 40" is needed. It was decided that the delegates to the State organization meeting in Kearney be authorized to offer Lincoln as the host city for 1971. The meeting adjourned and everyone enjoyed the slide program of the Holy Land ably presented by Barbara Allen.

this month..."We enjoyed a very pleasant week-end at the State Rock Show. The Fort Kearney Rock Club was host to the Show and I must say they did an excellent job. We felt proud to be able to display and help the show a little bit. The Lincoln Gem & Mineral Club did a real fine job in displaying, our club was well represented.

At 10 AM on Sunday morning, I being one of the four delegates picked to represent our club at the Show had the privilege to sit in on my first State Association meeting. Business was conducted in orderly fashion and several items of business were discussed and voted on. Roll call was answered by four delegates from Lincoln Gem & Mineral Club all being present. We were welcomed by a nice hand of applause and welcomed to the organization by the Secretary and President.

Bids were taken for the coming shows. 1971 to Ogallala and 1972 to Hastings. We as delegates mentioned our club would host the 1974 National Show and immediately a motion was brought forth that the State Association go on record to give full support and help to our club in our efforts toward the National Show.

I am very glad to be a part of the State Association. I met many of my rockhound friends and had a nice visit with all of them. Am looking forward to seeing all of my friends at some of the up-coming Swaps and Shows to be held in the State during the rest of the year.

The Taylor Family - Howard Taylor, Delegate."

WELL...the ice is broken (could that be a punny?) and thanks to the Parks our first field trip of the year is a memory. Sunday at 11 AM it it was 54 degrees, dark & windy...hearty souls still wanted to get out and see what treasures awaited so the off-again, on-again trip to Holmesville took place. Those strong enough to brave the elements were the Greenwades, the Wells, the Olivers, the Days, the Parks, the Perry Millers, the Van Cleaves and Bill Hendrickson. Calcite and quartz were the most common xls found but some specs of green and golden barite were added to a few collections. (Temp at 2 PM-41°!)

PRESIDENT'S MESSAGE

Plans, activities and enthusiasm are on the upgrade as members who have accepted jobs or volunteered for special projects become more involved with each passing moment. My very sincere thanks to all that are involved. My eager invitation to any that are not but would like to be. There are things aplenty for more to participate in and thus share the fun. We only need your willingness and show of interest.

Our recent project "Canvas the Membership", so ably handled by our calling committee, has been likened to a third degree or a spanish inquisition - but your spirit of cooperation was wonderful. These things we needed some very definite information on and no bulletin was in the mail - actually we probably would have not gotten the complete response which the calling accomplished. In this way we could insure that no one was left out - so if we do not have your number and you wish to be notified - get the number to us.

I was very pleased with LGMC participation in our first State Show. We had over 20 individual exhibits or come and go displays from our club. Many members attended the show, a very fine and well-run project, with all parts of Nebraska represented. We especially enjoyed seeing the State Case made for and presented to the Association and available for each of the member clubs hosting shows in their own area.

Because of the canvas approximately 40 LGMC families have ordered personal copies of the State Directory and bi-monthly publication. These will be mailed in a bundle to the club box for disbursal at our club meetings or you may secure them as soon as received by paying 6¢ postage each copy for us to mail them to you.

As Norma told you our first field trip went off with a blast (of cold, damp, windy air). So far only one report of a resulting cold. Most of us made only the first of our two authorized stops but new members- the Fred Days- went on to the second stop and reported better success at this locality - another field trip there soon???

Our double event to Fremont as explained under Field Trips - is highly recommended as a full and interesting day. The slide showing is planned as a field trip excursion so informal dress is very acceptable. This showing will take place even if the weather does not permit hunting in the gravel pit unless fewer than 25 persons make reservation - in which case we will cancel. If enough interest is shown to plan a second showing for those not able to go on the 26th we will try for a later date.

Thanks to those members who searched out the little box and helped purchase our March donuts and thanks to those who helped with the serving and clean up. Those things have to be accomplished and all are welcome to join in.

In closing - my now favorite quote - "God grant me the serenity to accept things I cannot change, Courage to change things I can, and Wisdom to know the difference."

Sincerely

Phyllis

With field trips at hand it would be wise for old-timers to review and new-comers to become acquainted with the American Federation

CODE OF ETHICS

I WILL respect both private and public property and will do no collecting on privately owned land without permission from the owner.

I WILL keep informed on all laws, regulations and rules governing collecting on public lands and will observe them.

I WILL, to the best of my ability, ascertain the boundary lines of property on which I plan to collect.

I WILL use no firearms or blasting materials in collecting areas.

I WILL cause no willful damage to property of any kind, such as fences, signs, buildings, etc.

I WILL leave all gates as found.

I WILL build fires only in designated or safe places and will be certain they are completely extinguished before leaving the area.

I WILL discard no burning materials - matches, cigarettes, etc.

I WILL fill all excavation holes which may be dangerous to livestock.

I WILL not contaminate wells, creeks or other water supplies.

I WILL cause no damage to collecting material and will take home only what I can reasonably use.

I WILL support the Rockhound Project H.E.L.P. (Help Eliminate Litter, Please) and will leave all collecting areas devoid of litter, regardless of how found.

I WILL cooperate with Field Trip leaders and those in designated authority in all collecting areas.

I WILL report to my Club or Federation Officers, Bureau of Land Management, or other proper authorities, any deposit of petrified wood or other material on public lands which should be protected for the enjoyment of future generations and for public educational and scientific purposes.

I WILL appreciate and protect our heritage of Natural Resources.

I WILL observe the "Golden Rule", will use Good Outdoor Manners and will at all times conduct myself in a manner which will add to the stature and Public Image of Rockhounds everywhere.

(Let us all strive to uphold this code - everyone will profit. rm)

Johnny Horizon says: THIS IS YOUR LAND - KEEP IT CLEAN. US BLM



FIELD TRIPS - 1970



DATE	PLACE	MATERIAL	WAGON MASTER
Apr. 12	Holmesville	quartz & calcite	Parks
Apr. 26	Fremont	petr. wood, Lakers	Carveths
May 3	Weeping Water	horn coral	Wells
May 17	Marysville, Kans.	pink gypsum	Simmons
June 13-30	Wyoming trip	Jade, Eden wood etc	Simmons
July 12	Weeping Water	fossils	Wells & Pabian
Aug. 1 & 2?	LGMC Swap	you name it	Taylor
Sept. 5-7	Crawford	Fairburns, petr. wood	Simmons
Sept. 26-27	LGMC SHOW	you - all come	Pabian
Oct. 3-4	Genoa-Fullerton	petrified wood	Anderson

FREMONT FIELD TRIP...Sunday, April 26, 11:00 AM...meet in the City Park in Fremont. Bring your sack lunch, drinking water, coffee or whatever you like. Leave by caravan, headed by the Carveths, to the pits where they have secured permission for the group to enter. Those who want to take in the program "Symphony of the Canyon" to be presented at 4:00 PM at the Planetarium in Fremont...make your reservations with Darline Sprick by meeting night, Apr. 25. Pay her your admission \$1.00, students .50¢. Those not going to this program may hunt the remainder of the afternoon.

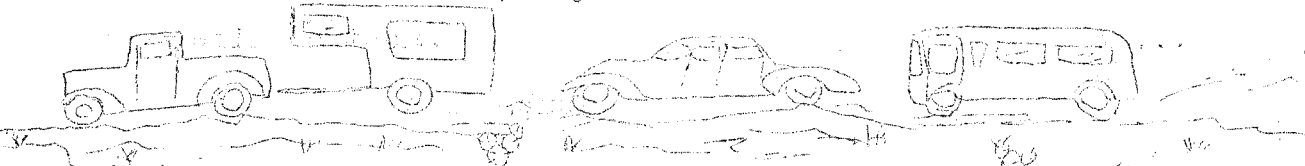
JEWELL, KANSAS FIELD TRIP...Sat. & Sun. May 23-24...Helen Miller and Tom Simmons have made arrangements to meet at the City Park at Jewell at 10:00 AM, Sat. May 23. Permission has been given by the town mayor to allow our campers and/or trailers to park on the north side of the Park. (This worked out well last year. No electrical outlets tho.) Our guide to Round Top (a short distance out of Jewell) to collect septarians is Helen's brother-in-law. Two or three hours in this area is sufficient time and we will return to Jewell for lunch either in your camper or at the restaurant. In the afternoon we will be led south of town for fossil shells, and an 'unknown'. We will leave directions posted at the Park for those late joining the group.

Return to Jewell for supper and overnight camp. Sunday AM break camp at 8:00 AM to hunt ammonites on the John Debey farm, $\frac{1}{2}$ mile west of Dispatch, Kans. Those wishing to get to the potluck dinner at 12:00 noon at the Swap at Crystal Lake State Rec. Grounds at Ayr, (50 miles north of Dispatch; 12 miles south of Hastings) may do so. The Swap auction is at 1:00 PM. This is a flexible schedule...you may join or leave the group as you wish.

WEEPING WATER FIELD TRIP...Sunday, May 3, meet at Hopper's Quarry just south of the Weeping Water turnoff on Hiway 50, at 9:00 AM. Material here is horn coral. The Wells will be in charge.

MARYSVILLE, KANSAS FIELD TRIP...Sunday, May 17...meet at the intersection of Hiway 77 and 36, at 11:00 AM. There is room to park while the group assembles. The material is pink gypsum...bring your shovels as it is buried in a creek bank...difficult to get to...Tom will be there to guide...you will need basket or bucket to carry material out.

WYOMING FIELD TRIP PLANS (subject to revisal) see next page...



WYOMING FIELD TRIP PLANS...subject to revisal...we will try to keep you posted in the next issues of P & S

- Sat. June 13...meet at Eli Wasserburger's Standard Oil station in Crawford at 0800 hours (Fairburns, wood, etc.)
- Sun. " 14...travel to Jeffrey City, Wyo...camp at new camp area near Jeffrey City. Details on this later.
- Mon. " 15 meet at 0800 hours at "Home on the Range" gas station at Jeffrey City (info will also be left at the grocery store.) Walter Moser from Hickman, and VonDrasek will be our guide for the jade area.
- Tues. " 16...still in jade area.
- Wed. " 17...petrified wood in Beaver Rim area
- Thurs " 18... " " " " " " "
- Fri. " 19 " " " " " " " or travel to Rawlins
- Sat. " 20...meet at Rawlins Show (camp grounds on east and west side of town, also motels.
- Sun. " 21...join Rawlins Wyoming State Field Trip at 0800 (?) for common opal, iron jade, hematite.
- Mon. " 22...travel to Farson, camp info later.
- Tues. " 23...meet at the grocery store on 0800 hours for the Blue Forrest wood trip.
- Wed. " 24...meet at 0800 hours at grocery store for Eden Valley wood and to go fishing.
- Thur. " 25...travel to Dubois...meet at Twin Cabins Grocery Store camp site.
- Fri. " 26...meet at 0800 hours at grocery store in Dubois to hunt for Dubois wood
- Sat. " 27...travel to S. gate of Yellowstone for trip through.
- Mon. " 29...tour Yellowstone
- Tues. " 30...head for Dryhead agate area...then back to Lincoln or on your own side trips.

This Wyoming trip is being planned so anyone interested can join the group for any or all of the trek that you can work in. Join the group where and/or when you can.

We hope you will all understand the lateness of the bulletin this month so we could include the field trip plans which were made on the night of Tues. April 14. It is sometimes difficult to get plans coordinated but we hope those printed at thistime in the P & S will help you plan your attendance at any or all of the trips. More pertinent info will be available from the Wagonmaster of each trip as the dates draw nearer and changes of meeting places may have to be made. Attend the general meeting or contact the wagonmaster in charge by phone ^{for} definite info shortly before the trip.

A TIP FOR THE LAPIDARY...when working with a soft stone such as alabaster, marble, or onyx, try soaking it in water for a day before sawing. The cutting oil will not soak in; later, when polished, a better finish will be achieved. via ROCK TALK

THEY SAY...if you want to leave your footprints in the sands of time, wear your working shoes.

...about the time you learn to make the most of life, the most of it is gone.

via The Tumbleweed

1970 SHOW NOTES

There is much to report in the progress of our Show. Several vacancies have been filled and several vacancies remain open.

Mrs. Don Lawson will serve as the chairman of advanced ticket sales this year. Jerry Kohn has retired to a well deserved rest after seven years on this big job. Jerry did agree to share his knowledge of this important job with the new chairman so I am sure we will not be left in the dark.

Marie Carveth has agreed to take charge of decorations for the Show. I am sure we will have many nice frills added to our show. Marie has many good ideas in this line. She will doubtlessly need some helpers to set up the show.

Glen Ulrich will be in charge of the working shop exhibits. We are sure to have a successful display here. We will need a few volunteers to cut and polish cabs during the show. This is a good chance to finish up some of your unfinished projects. Of course, we will need a good variety of equipment and use of this will be appreciated.

Howard Taylor informs me that Larry Rupert will be one of the assistants on the Floor Committee.

The job of Program Chairman has yet to be filled. Some of his work has been done. Barbara Allen has consented to give one of her outstanding slide shows of her many travels. We will also have a program on Nebraska by Frank Marsh and a program on Australia by Vern Souders.

The Publicity Chairman job remains unfilled at this date. Some publicity work has already been accomplished. Show flyers were distributed at the State Show at Kearney. Flyers are being sent out with all of the exchange bulletins this month.

Frank Krejci has consented to give faceting demonstrations at the Show again this year. Frank has filled this job very well in the past and we are fortunate that he will give his service again this year.

Now is the time to be planning your displays. We can use all of the cases we can get, beginners, advanced, all categories, all classes. May will be the last show note before summer. A preliminary case census will be taken at the May meeting.

Many members will be traveling this summer. It would be a great service for all of the travelers to carry show fliers with them to distribute at shops, swaps, shows, and the likes. We can use this type of person-to-person promotion.

Roger Pabian - 1970 Show Chairman

THOUGHT FOR THE DAY: There's nothing wrong with making mistakes; just don't respond with encores.

news & notes...GENE HILTON has completed his examinations and is now a registered barber and has purchased a shop in Elmwood, Nebr. "Gene's Barber Shop" is open for business Tuesdays through Saturdays, 3:30 AM to 6:00 PM - later on Saturdays.

Norma Miller had her family together again shortly before Easter... son Randy was confirmed and attended his first communion, son Les was home from campus, and son Stan was home from Minnesota for the occasion.

The Kip Mc Ewen's are proud parents of a baby boy after having three girls. At present they are in Albuquerque but expect to return to Lincoln in May or June. We'll look for them back in our ranks.

Jeanette Claus reports that since the last issue of the PICK & SHOVEL the State Fair Board notified her that the lapidary section of exhibits will be combined with the crafts and therefore there may be other awards but there will be no trophy this year.

Nelda and Bob Oliver & Jim have performed a tremendous service to your editors and the club in printing and assembling the Who's Who this year. With willing helpers like these, and those of you who have helped in the past several months in "putting out" the P & S the job is a pleasure and we truly appreciate the cooperation given us when we send out a call for help. nm & pnp.

We extend our sympathy to Bob & Millie Bainbridge in the recent death of Bob's brother. Time and tide wait for no man.

Of interest to the entire club is the news of the wedding of Judith Lewis, daughter of John & Lillie Lewis. The wedding date is set and all is hustle-bustle at the Lewis household.

Room 104 Report...in the March, 1970 publication of University of Nebraska NEWS "Museum Notes" LGMS has been listed under Recent Donors quote: "Lincoln Gem & Mineral Club: Volunteer time used in the preparation of specimens and exhibits; Mr. & Mrs. Norman Engelhart, Mr. & Mrs. Gene Eno, Mrs. Marge Heedick, Mr. Garry Heedick, Dr. & Mrs. Floyd Lang, Mr. & Mrs. Don Lawson, Mr. & Mrs. Kip McEwen, Mr. & Mrs. Robert Oliver, Mr. & Mrs. James Parks, Mrs. Jan Schroeder, and Mr. & Mrs. Lawrence Van Cleave." We hope this project will continue as it is a worthwhile effort and an indoor project we as a group can work on together during the confining winter months.

Frank Rule reports that Doris continues to improve to the extent of returning home...what a miracle!

Interested in Jewelry design? A book titled "Contemporary Jewelry" by Philip Morton looks intriguing! It is beautifully illustrated and the subtitle, A Studio Handbook, is apropos because the material after the first four chapters becomes technical in dealing with the design and manufacture of jewelry.

NEW ADDITION TO ELEPHANT HALL...acquired by Dr. C. Bertrand Schultz, director of the University of Nebraska State Museum, during his last visit to Rome. Technically classified "Elephas Falconeri," a 3½ ft. fossilized elephant was found by cave explorers in the Cave of Spina-galla in Southeast Sicily. This tiny elephant is now ready for assembly at the Univ. of Nebr. State Museum after its journey from the University of Rome in Italy.

PROGRESS REPORT - 1974 PROJECT

Many thanks to our fine and efficient bulletin editors, it is with their kind permission that I am permitted to submit an article at this late date.

I have attended several shows and meetings during the past two weeks that are of particular interest to all of us and it seems appropriate to comment upon them, if only briefly, before they become history.

The annual Show of the Nebraska Association of Earth Science Clubs and the meeting of delegates to that organization held in Kearney April 3rd, 4th & 5th were two activities that are unique because it was the first time that the Lincoln Gem & Mineral Club participated as a member of the State Association. As one of the four delegates from Lincoln, I felt that we were accepted very enthusiastically and that the members of the other clubs were very friendly toward everyone. I was so impressed by the high quality of the displays and the efficient operation of the Show in general that I think the Fort Kearney Rock Club should receive some kind of an award for a job done well.

There was plenty of enthusiasm at the meeting of the delegates Sunday April 5th. I can see a great future for this organization in promoting the Earth Science hobby. They have their problems however. The difficulty of distance and communication between the member clubs was discussed and it seems that the news letter, or bulletin, is the best way to get the word around. So if you want to know what is going on, better subscribe to the "N.A.O.E.S.C.I. NEWS".

Some of the wording in the present By-laws is subject to different ways of interpretation and this writer was doing some talking rather than listening and wound up on the By-laws Committee. It is not the intent at this time to change any of the provisions but rather to gather up the elements and word them a little more specifically. The other two members of the By-laws Committee are Mrs. Hammond from Bushnell and Fred Penick from Lewellen.

I must mention one more event that was very important to us. The Association passed a motion to support the Lincoln Gem & Mineral Club in their 1974 combined Federation Show effort. I am sure that with this added support the big show will be much more attractive to Nebraskans and much more impressive to the Federation than would be possible otherwise.

The question of hosting the Nebraska Association Show in 1974 came up and Mr. Kenfield from Ogallala suggested that Lincoln would be a good place, thus the State Association Show could be combined with the Federation Shows. If you would consider this for a while you can perhaps see many advantages. This would mean that we in Nebraska could have one big blast for the year and not have to choose between exhibiting at the State Show or at the Federation Show, you could do both at the same time. However this discussion will have to be made by the State Association and the Lincoln Gem & Mineral Club through the Steering Committee so think about it and let the Steering Committee hear from you.

(continued next page)

PROGRESS REPORT, 1974 PROJECT (continued)

Now just a brief word about the Executive Board meeting of the Midwest Federation in Iowa City April 11th. I noticed two significant discussions, besides the 1974 Show Project, in particular. One was the question of communication again and the other was the ever growing size of the regional federations.

In regards to communication it seems basically to boil down to the news letter again and to the club members sending the news items to the newsletter editor.

The federations are getting so large that many of the smaller clubs get left out because the shows and meetings require more services and facilities than they can provide. Thus they are inclined to form smaller organizations within their area and this could cause confusion and duplication. Therefore the purpose of the federation, that of organized group effort, is being diluted. The Executive Board decided to ask the American Federation to consider sub-dividing some of the larger regional federations or to re-zone them so there would be perhaps 10 rather than the present number of 6.

We were visitors at the Executive Board meeting but we were certainly given plenty of opportunity to speak about our 1974 Show Project. I was surprised to learn that there is such a keen interest in our progress. The general comment after the meeting seemed to be that we are using the right approach by the form of organization and the method of developing the plans. One comment was "With all that planning and getting started early, you got it made." Several past Show Chairmen and the present Show Chairman of the 1970 Midwest Federation Show in Minneapolis agreed that the number of Division Chairmen should be kept small. We have set out 10 divisions and this is fewer than most clubs have had in the past. This is basically where the most creative work of planning and organizing is done, ie in small groups.

We can expect a great deal of help from the Midwest Federation in an advisory capacity, however the show and its operation is by the Lincoln Gem & Mineral Club and we will always have the full control of the event. This is the way the present Executive Board sees it.

Ralph Ulrich, Chairman
Steering Committee-1974 Project

Some people search for diamonds
Some people search for gold
Some people only pick up rocks
At least that's what we're told.

The diamonds make you famous
The gold you have to spend
The rocks just bring you pleasure
And a host of happy friends.

by Elizabeth Martin via
several bulletins
last being

Cedar Valley Gems

DATELINE-MARCH, 1970--DRIVE BEGINS TO SEND FREMONTER TO ENGLAND

The Grant School PTA has initiated a fund-raising campaign to allow Rodney Woodcock to attend the International World Science Fortnight and Pre-conference Tour this summer in London, England.

Rodney, (a member of Lincoln Gem & Mineral Club and protégé of Geo. & Glenna McGinnis) and a junior at Fremont High School, is one of 30 delegates selected to represent the United States. He is the only Nebraskan chosen for the honor.

The Grant PTA began the campaign for raising approximately \$1,000 needed for Rod's expenses. "The PTA feels this is an honor to Rodney Woodcock that should not go unnoticed, and we invite PTA's and other service groups to donate to a fund," said members of a campaign committee.

Rod is one of 450 students from 25 countries attending the conference arranged by World -friends of Great Britain in cooperation for the Advancement of Science. Aims of the conference are to give a deeper insight into science and its application for the benefit of mankind and to develop a greater understanding between young people of all nations. Requirements for selection of the U.S. participants by the National Science Teachers' Association are being 17-19 with strong orientation toward science and outstanding achievement in this area plus maturity in all other levels. Rod will leave July 13th and arrive back in the States Aug. 5.

(A wonderful experience awaits you Rod and we hope you will favor us with the highlights of your trip at one of our meetings after your return. Eds.)

MORE FACTS from "Geology, Principles & Processes"
contributed by Paul (Stan) Greenwade

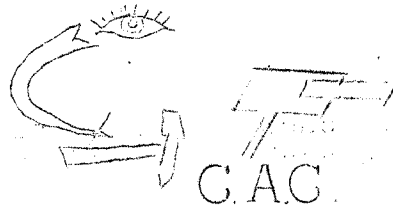
P. 308: Seawater contains 34.4 parts, by weight, of mineral matter per 1,000 parts of water or 3.44 per cent. This amounts to 151,025,000 tons per cubic mile. Total amount of sea water estimated to be 323,722,150 cubic miles which, at 3.44 percent, figures over 4,500,000 cubic miles of mineral water with a specific gravity of 2.2. This is equal to about 20 percent of the volume of all rock masses above sea level. If this material was precipitated on the bottom it would cover the entire sea floor about 175 feet thick.

P. 311: The pressure at any given depth in water is equal to the weight of water above it. Sea water weight at surface about 64 lbs per cubic foot. Therefore, at 1,000 feet deep the pressure is about 64,000 pounds per square foot and at 35,000 feet more than 1,100 tons per square foot. At great depths pressure causes slight compression of the waters. If this compression was released the sea level would rise almost 90 feet.

P. 313: The siliceous parts of Diatoms, Radiolaria and some sponges may contribute to the formation of flint or chert beds in adjacent limestone.

COMMUNITY ARTS COUNCIL

The March meeting of the Council was held at the Student Union on March 27.



Persons agreeing to serve on a study committee to consider the feasibility of the proposed Community Arts Center are: Henry Blanke, Cliff Hillegass, Richard Morris, Mrs. Ed Walt and Mrs. William Zieg.

Member organizations reported on the needs and progress being made in their areas. Those organizations represented were: Community Playhouse, Lincoln City Library, University of Nebr. Extension Div., Community Concert Assn., Lincoln Symphony Orchestra Assn., Lincoln Symphony Guild, Sheldon Art Gallery, Lincoln Artist's Guild, University of Nebr. Dept. of Art, American Guild of Organists, First Plymouth Congregational Church, Civic Singfest Committee.

The secretary was instructed to correspond with the Lincoln Camera Club regarding possible membership in the Arts Council. A description of the Fine Arts Program was given by the director of the Student Union. The Union is working with the Community Concert Assn. on ticket sales, with the Drama Dept. of the University in providing facilities for laboratory plays, and with the Art Dept. and Sheldon Art Gallery in the display of both student works and pieces from the permanent collection from the Nebraska Art Assn.

A spring festival of the arts on campus is being planned for the last week in April and 1st week in May.

The next meeting will be held at Nebraska Wesleyan University on April 20. Following adjournment some of those present toured the Student Union facilities.

Norma Miller, co-rep. to Community Arts Council

SCIENCE CENTER NOW OPEN...this info via the REAR TRUNK...The Omaha Suburban Area Council of Schools Science Center (OSACS) has begun limited operations in their new Gretna facility, and as work of remodeling is completed the center programs will be expanded. The OSACS, supported by a grant from the U. S. Office of Education, has three primary objectives:

1. To provide science in-service training at the Center for elementary and secondary teachers to update programs.
2. To provide equipment and materials that may be delivered to schools for student and teacher use.
3. To provide instruction and laboratory experience for interested science students in areas outside the existing programs.

Special interest courses are being offered including Astronomy, Aviation, Earth Science, Lapidary Science, Marine Biology, and Field Science for camp Counselors.

Ed Pharaoh, member of the Nebraska Mineral & Gem Club of Omaha, NB, is a teacher in Springfield and is teaching the Lapidary Science. The Science Center is one of several programs co-ordinated by OSACS, which is a non-profit corporation including the school districts of Bellevue, Gretna, Millard, Papillion, Ralston, Platteview and Westside Community Schools. Adult classes will be given.

SOME METHODS FOR CUTTING AND POLISHING LAKE SUPERIOR AGATES

PART III - by Roger Pabian

Lake Superior Agates have the particularly good quality of being able to reproduce the same pattern several times in the same nodule. This is highly advantageous to the cutter who wishes to make matched sets of stones, especially cuff links. Rough agate nodules are normally cut into several slabs from which the paired stones are chosen. To get matched sets it is important to keep in mind that the best matches come from adjacent slabs. Assume for a moment that we are cutting slabs off of a nodule from left to right as the stone moves away from us in the diamond saw. Let us call the top of the slab the area which is to the right hand side of the blade and the bottom of the slab the area which is to the left hand side of the blade. Then, on any one cut, we are cutting the bottom of one slab and the top of another. The best matches are usually obtained by cutting stones from the bottom of one slab and the top of the adjacent slab to the right. The bottom of the slab to the left will form the top of one stone and the top of the slab to the right will form the top of the other. It is important to remember the orientation of the slabs. If one of them is turned over relative to the other, the desired symmetry may be lost.

Methods for choosing the area to be cut are similar to the methods for choosing the areas to be cut for rings and tie sets. Present fashions call for a rectangular or square cuff link of sixteen by fourteen or fourteen by fourteen millimeters. If an oval cabochon is desired, it becomes necessary to determine the "strike" and "dip" of the bands. "Strike" is "the horizontal direction of a line on any surface." "Dip" is "the maximum angle of inclination of any surface as measured perpendicular to the strike." The surface is that of the slab and the horizontal direction is the one the bands follow. The dip is essentially the slope of the bands.

If we wish to cut a matched set of stones for cuff links and the bands on both slabs dip steeply, we have no problem and only need choose the desired pattern. If, however, we have a prominent band which we wish to be the center of the stones and this band dips steeply on one stone and gently on the other (less than forty-five degrees) it is necessary to intentionally cut the latter stone high on the dip side of the long axis to produce the desired symmetry.

The world of fashion will usually dictate what the professional cutter produces. With the re-birth of tie tacks with small stones, the agate cutter has been given some economic relief. Now it is possible to turn many of the scraps from larger stones into small stones for jewelry. Most tie tack stone measure only ten by eight millimeters, or even smaller. The techniques for selecting material for small stones is similar to choosing material for large stones. Keep in mind that the scale is reduced in order to avoid exaggerating the subject area in proportion to the size of the stone.

Stones chosen for bolo ties are usually large, brightly colored, possess any optical effect, and are even gaudy. They are to be

(continued)

SOME METHODS FOR CUTTING AND POLISHING LAKE SUPERIOR AGATES (cont'd.)

free of fracture or imperfection. Since bolo ties are most often worn with western style clothing, one need not be concerned with conservatism and a general rule of thumb is: "The wilder, the better." Agates with bands of several different colors, and bands which change direction frequently, are desirable for this type of jewelry.

After choosing the appropriate patterns for the jewelry one proposes to cut, the actual cutting of the stones follows a more or less cut and dried procedure. The cutter should carefully mark the area to be cut with either a sharp-pointed aluminum or brass rod. Excess material can be trimmed away with the diamond saw. Trimming should be done in such a way that the scraps will as large of pieces as possible. Often large scraps will produce a good, small piece of jewelry, especially a tie tack. Shaping the stone should be done on a smooth, soft or medium soft grinding wheel. First, cut a bevel about one millimeter wide at an angle of forty-five degrees to the base of the stone. This prevents flaking of the brittle materials when the shaping operation takes place. The first cut on top should be an angle of twenty-seven degrees around the periphery of the stone, taking the vertical side and the bottom of the slab as the vertex of the angle. After this angle is cut, another angle of twenty-seven degrees is cut over the first one, the vertex of this second angle being situated about half way up the beveled side. The semi-faceted appearance that the stone will first have is removed by fine grinding. Through both the coarse and fine grind it is necessary that water be used as a coolant or the stone may fracture due to extreme heating. Grinding wheels should be dressed smooth, preferably with a one-fourth or one-half carat industrial diamond, and sharpened with a star type dresser. The grinding wheels should rotate at a speed of about fourteen-hundred surface feet per minute. Keeping the wheel smooth minimizes the danger of fracturing or flaking the stone.

Sanding is best accomplished with "wet or dry" type sanding paper. It is much easier to use a drum type sander than a disc type sander. To obtain a suitable sanding job calls for a wheel which rotates at six-hundred surface feet per minute. Since the drum is of uniform diameter, it is easy to adjust it to turn the correct speed. The diameter of a disc ranges from zero to six inches or more. If the periphery of the disc is turning at the right speed, the interior is moving too slow. If the interior is turning at the right speed, the periphery moves too fast. In the former case it requires too much time to get a desirable sanding job, while in the latter case undercutting, which happens when softer portions of the stone are pulled out of the material, results.

Larger stones can be sanded on two-hundred-twenty grit and four-hundred grit in that order. The coarse grit paper should be kept wet at all times in order to prevent heat chipping, burning, or undercutting. Sanding on the coarse grit should proceed until all of the grinding wheel marks are removed. Fine sand paper will not remove grinding wheel marks and the heat generated in trying to remove such

(continued)

SOME METHODS OF CUTTING AND POLISHING LAKE SUPERIOR AGATES (cont'd.)

marks with fine paper will likely burn or fracture the stone. The fine sand paper should be wetted and sanding should proceed until the paper dries, but should be stopped before the stone or paper become hot. The result here should be a stone with a smooth but dull surface. Completing the sanding on a piece of old, four-hundred grit paper will produce a glossy semi-polish. Old four-hundred grit paper is less likely to cause the undercutting than six-hundred grit paper. The finish cloth should be used only dry. Under no circumstances should the finish cloth be wetted for it is its dirty nature - the fine particles trapped between the grit - which produces the semi-polish. Sanding small stones follows a similar procedure to sanding large stones. The first sanding should take place on old two-hundred twenty grit paper, for new, sharp two-hundred twenty grit paper can cut the stone and reduce the stone to dimensions which are smaller than those desired. All other steps are the same.

Polishing is the final step to completing the stone and this can be done in several ways. A soft leather wheel or hard felt wheel are the most suitable. Wheel speed is not critical so far as a minimum is concerned. The wheel should not exceed a rate of eight-hundred surface feet per minute as polishing compounds will not cling to the wheel and excessive heat will be generated. Stannic oxide, ceric oxide, chromic oxide, Linde A. or Aluminon are suitable polishing compounds. All should be used wet. Checking the polish can be done by rotating the stone around such that it reflects a small point of light. Any scratches will cause the light reflections to divide on the surface of the stone.

When all of the preceding steps are completed in the prescribed manner, a gem of high quality and fine appearance should result. The stone can be mounted in a good grade of ready-made commercial mounting or in a custom made mounting. It does not pay to mount a high quality stone in a low quality mounting as attempting to save expense may produce a ridiculous appearing product.

Cutting jewelry for women follows the same shop techniques as cutting jewelry for men. Women's jewelry items consist mainly of rings, pins, pendants, ear rings, necklaces, and bracelets.

Ear rings are easily produced by following essentially the same methods described in producing cuff links. The stones are generally smaller and thinner to keep them light weight. Rounded, oval cabochons produce the best results. Pastel shades as pink, yellow, or white are desirable.

Stones for bracelets, pendants, necklaces, or pins can be cut in similar fashions. Band centering and pattern centering techniques, as described for men's ring stones, help to produce a highly desirable effect. The cut for a ladies' stone should be a rounded, oval cabochon in preference to the squares or rectangles used for men's jewelry. Again, pastel shades are favorable.

Worthy of longer discussion is the manufacture of women's rings. There are several techniques for cutting a good ring stone. Women's
(continued)

SOME METHODS FOR CUTTING & POLISHING LAKE SUPERIOR AGATES (cont'd.)

rings are generally long and narrow, perhaps twenty-four by nine millimeters. The length-width ratio for these stones is often two and one-half to one. This means that monocyclic stones with even very narrow portions of banded agate are highly suitable. Best results are obtained by centering some of the prominent bands.

Small, tear drop shaped, complete nodules produce very choice women's ring stones. These have complete patterns and centering the stone by the geographic center method is necessary to get the very best result. These small nodules tend toward pastel shades.

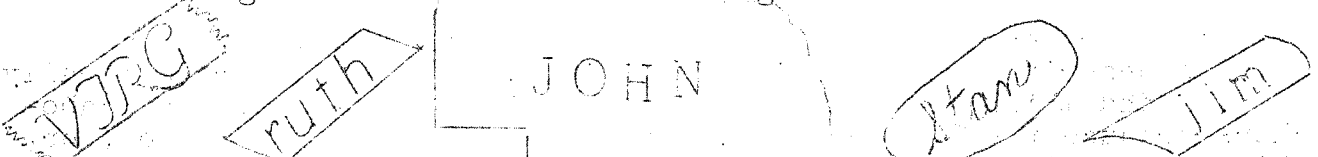
Agates which show depth are excellent for rings. Shadowing is not desirable for a ladies' stone though. Deep agates with prominent bands will produce a choice stone. Gray or gray-green stones with occasional white bands are suitable as are red stones with white bands. The prominent band should be oriented to run parallel to the long axis of the stone.

(More next month)

From EARTH SCIENCE-1952...Water being a universal solvent, the oceans are in fact the earth's great storehouse of minerals of all kinds. It is said that more than 30,000 tons of radium are dissolved in ocean waters, and what seems even more unbelievable, the oceans contain enough pure gold to pave the entire United States or to form a canopy over the entire world.

Furthermore it has been said that if one were to extract all of the gold from all the waters of the oceans there would be sufficient to make a millionaire of every man, woman, and child on earth! (Scuba-diving anyone?)nm -via Old Capitol Geological Club

NAME PLATES...And how to make them...Select a desirable piece of material and prefinish the stone. Coat the entire stone with a thin layer of cooking wax (paraffin). (Caution, heat wax in container and be careful not to let the wax flame up.) When the stone is coated, it is lukewarm...take a needle or suitable prong and scribe your name. Be careful not to raise the wax, as air will enter around the lettering. Cut the wax clear through to the stone.



Submerge the face of the stone with the cut lettering in Hydrofluoric acid for no more than 2 hours or less than one hour on suitable hard stones.

CAUTION SHOULD BE TAKEN WITH ACID AT ALL TIMES!

After soaking the stone in acid, remove and neutralize in water. Remove the wax and clean. If stone was prefinished, glue a pin clasp on the back and admire it. -Chet Marusek via GEMS

LATE FLASH-April 16, 1970 - Club member Roxy Jo Anne Hilton 17 year old daughter of Mr. & Mrs. Gene Hilton, has just been presented a National Honor Society Award at the Lincoln High Honors ceremonies. Congratulations, Roxy!! and Gene and Marcella too!!

THE POLARISCOPE AND ITS USES by Chuck Houchin - via the Gem Scoop

Light is considered to have a place in the electromagnetic spectrum along with radio, heat, and other similar wave groups. These waves are of a transverse type - that is, their vibrations are at right angles to the direction of the travel of the waves. If you look at figure "A" below, imagine the light beam traveling toward you from the center of the circle. The direction of the arrows shows the direction of the vibrations. For the sake of simplicity, just figure "C" by eliminating either the vertical or horizontal vibrations, plane polarized light results.

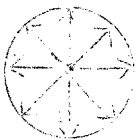


Fig. A

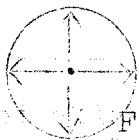


Fig. B

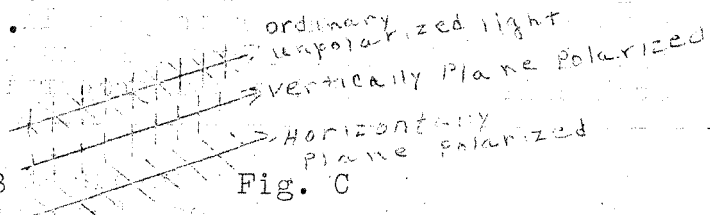


Fig. C

A beam of light striking a crystal of iceland spar divides into two beams. One beam will travel straight through the crystal without deviation. The other beam is refracted or bent within the crystal but emerges from the crystal parallel to the other beam. These beams are found to be oppositely plane polarized, a phenomenon known as polarization by double refraction. This property is found in many common crystals, and is illustrated in figure "D" below.

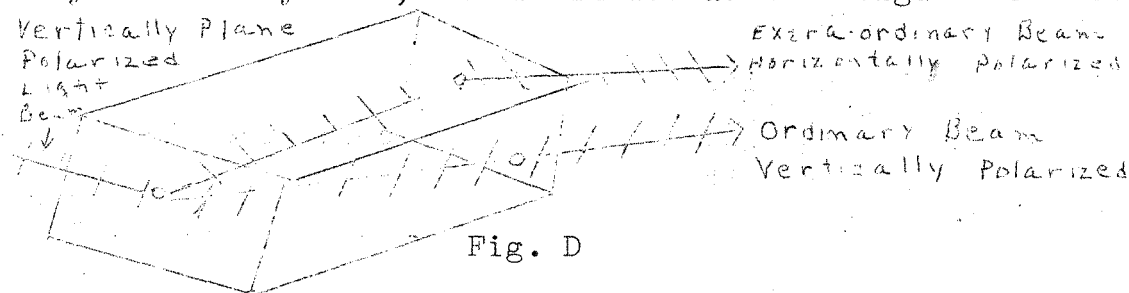


Fig. D

Thin sheets of polarizing film are now made and used in place of Iceland spar. The lenses of polaroid sunglasses are an example of one use of this film. When light from a small bulb is passed through one sheet of this film the beam of light will emerge as plane polarized in either vertical or a horizontal plane. When this resultant beam is passed through a second film with its plane in the same direction as the first, or both vertical, for example, the light will pass through. When one film is rotated 90 degrees, darkness results.

When a mineral crystal is held between these films and rotated, if the crystal is singly refractive light will pass through it in any position. If the crystal is doubly refractive, every 90 degrees of rotation will black out the light. With a book that lists the optical properties of different mineral crystals, a means of identification is provided.

Also, doubly refractive crystals will have one axis through it known as the optical axis. This axis will pass light in all positions, but if the crystal is turned at right angles, darkness will result every 90 degrees of rotation.

(continued next page)

THE POLARISCOPE AND ITS USES by Chuck Houchin (continued) via Gem Scoop

Stones to be faceted in many cases must be oriented so that the optical axis passes vertically through the stone from top to bottom, in order to achieve the greatest brilliance. Also some stones such as topaz cleave easily in one direction, and must be oriented properly to prevent this.

A polariscope is a very valuable tool as a means of identification and in orienting stones for cutting. The main limitation is that a stone must be transparent enough to pass light through, and the properties of the different mineral crystals must be available. Most books on mineral collecting list these properties.

We knew we could count on our silver buffs to come through with a project - this one from Howard Taylor:

LOVER'S KNOT

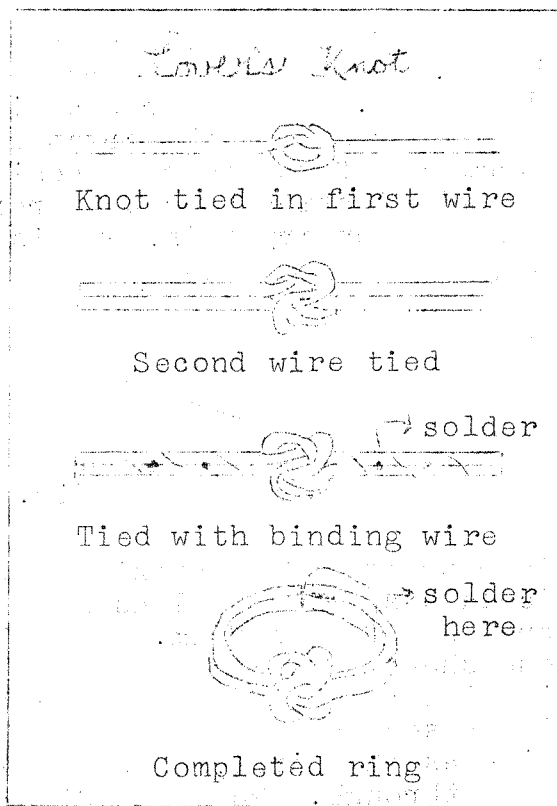
Material

- 12 or 14 guage wire
- 2 pieces each 4" long

By hand tie a knot in one wire and tighten it by placing 1/4" of one end of wire in vise and then pulling the other end with a flat jaw plier.

Place second wire through loop of the first, tie knot and tighten the same way. The wires should be tied as shown in diagram.

(This one looks easy... fun, too? nm)



A message from Mrs. J. D. Young via the calling committee:

Dr. Neihardt finished the first volume of his autobiography on his childhood and youth years on Good Friday. It is to be published by University of Nebraska Press and go on sale by Christmas 1970. It was two years in the writing. On January 8, 1971 Dr. will be 90 years old and in April 1971 he will mark the 50th anniversary of his Poet Laureateship.

A NEW LOOK- As you read your Pick & Shovel this month notice the ink. Most of the pages will have been printed with grey ink due to an error in filling our suppliers order. Because of the truckers strike they did not receive the black ink which they had ordered. We'll anticipate your comments. Eds.

THE MORE I THINK OF IT, I SHOULD HAVE STAYED HOME-by Darline Sprick

By the time I got away on this vacation trip to Arkansas, I really needed it, if I didn't need a vacation when I scheduled it. My troubles began on Thursday evening when I hooked up the trailer. That evening was a portent of things to come - if only I had known.

My vacation really began with three blown fuses on that evening. Friday morning found me on the way to the garage to find the cause of the fuse trouble. The trouble was compounded at 27th & Cornhusker when smoke began pouring out of the defroster vents. Now we all know that isn't normal. After a hectic hour, during which I first flagged down help to put out the fire, then flagged traffic on Cornhusker waiting for a tow truck (and freezing in light clothes and 28° weather) I ended up at the garage. That "train" that anyone might have seen going down 27th early that morning was the tow truck followed by my car followed by the trailer.

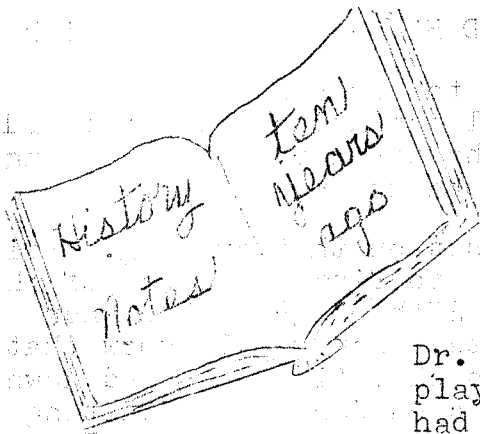
The car was repaired and so I'm on my way at last - but just outside Sedalia, Missouri, trouble popped up again. It just wasn't my week, I guess. It really jars you, when you're already slightly jumpy, to have the front end of the muffler break loose from the manifold pipe when you are going down the highway at 50 miles per hour with a heavy load. It sounded as if the motor exploded. Once again I looked for smoke - but this time from under the hood. When none of the "idiot" lights came on in the dash, I settled down enough to realize what had really happened. So here went another half day while these repairs were made. Needless to say, by this time I was ready to turn around and come back home.

When the next day went by without even a minor disaster, I was seriously on the way to the Coleman Crystal Mine at Jessieville, Ark. The mountains on the way down were beautiful - I missed the fog this time. I set up camp at the Iron Springs campground about 5 miles from the mine. While doing so, I visited with a family from Chicago who had just come from the mine. They had beautiful huge specimens that simply made me drool. (The tractor had been working that day, and when the tractor works you can follow it and stand a much better chance of finding the real lovelies.) Incidentally, the fee has been raised to \$2.00 a day this year.

I spent two days at the mine, packing my lunch and thermos in the morning, and staying until I was exhausted. This time I was smart enough to take something to wrap and protect the crystals I found. I came home with about six gallons of crystals. As I have been cleaning them I appreciate them more. Nature is a wonderful thing. At first glance you see a lot of crystals that are just the same - but closer examination shows that each one has it's own personality - it's own distinguishing characteristic. To a serious crystal collector, perhaps I don't have much, but since I collect these for my own enjoyment, it doesn't make much difference what someone else thinks.

Just one thing - I think this particular week this year was too early for a trip of this type. (Easter week-March 29). Too many things were not open, the weather was chilly, and there just weren't enough people in the campgrounds to make it a comfortable trip.

Thanks to some of the club members and other friends - I made it.



April, 1960...the regular meeting was held at Morrill Hall. Thirty members and five guests were present.

Members voted to purchase a hand operated ditto machine for publishing a monthly bulletin which will replace the postcard notices sent to members.

Dr. Robert Gibson spoke on silver work and displayed some of the mountings he and his wife had made. He introduced Adeline Nolde and displayed a case of her jewelry.

Tom Simmons showed colored slides of his recent trip to the Petrified Forrest, Painted Desert and several other National Parks.

- from the notebooks of Historian Frances Tracy

In May, 1919, at Dusseldorf, Germany, allied forces captured a very significant document: "Communist Rules for Revolution"!

As you read these "rules" now, 50 years later, keep in mind what you are reading and hearing every day via news media:

A. Corrupt the young; get them away from religion. Get them interested in sex. Make them superficial; destroy their ruggedness.

B. Get control of all means of publicity, thereby:

1. Get peoples minds off of their government by focusing their attention on athletics, sexy books and plays and other trivialities.

2. Divide the people into hostile groups by constantly harping on controversial matters of no importance.

3. Destroy the people's faith in their natural leaders by holding the latter up to contempt, ridicule and obloquy.

4. Always preach true democracy, but seize power as fast and ruthlessly as possible.

5. By encouraging government extravagance, destroy its credit, produce fear of inflation with rising prices and general discontent.

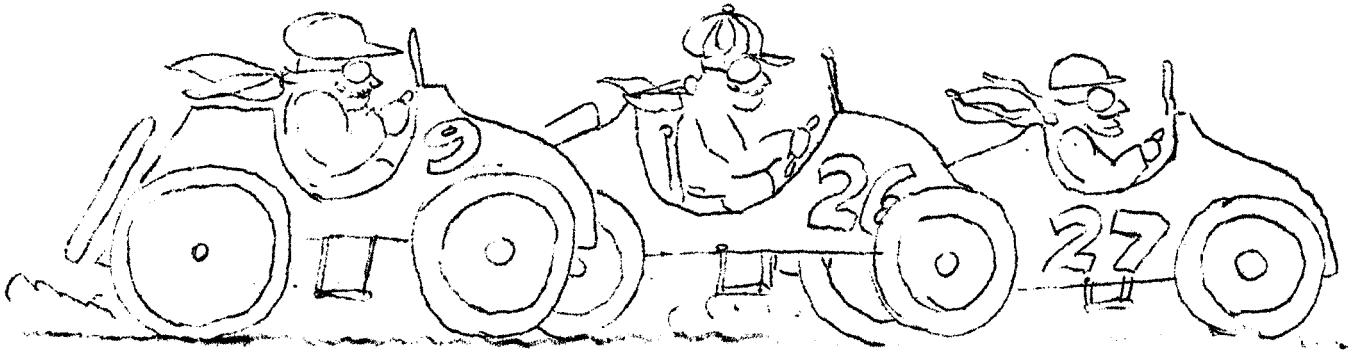
6. Promote unnecessary strikes in vital industries, encourage civil disorders and foster a lenient and soft attitude on the part of the government toward such disorders.

7. By specious argument cause the breakdown of the old moral virtues, honesty and sobriety.

C. Cause the registration of all fire arms on some pretext with a view to confiscating them and leaving the population helpless.

- submitted by Marie J. Carveth with the permission of
Radio K.F.O.R. on which station this was heard.

THE GREAT RACE IS TO THE



12TH ANNUAL SHOW

PRESENTED BY

LINCOLN GEM AND MINERAL CLUB

SEPTEMBER 26 & 27, 1970

PERSHING MUNICIPAL AUDITORIUM

Lincoln, Nebraska

FEATURING

COMPETITIVE EXHIBITS
(AFMS UNIFORM RULES)

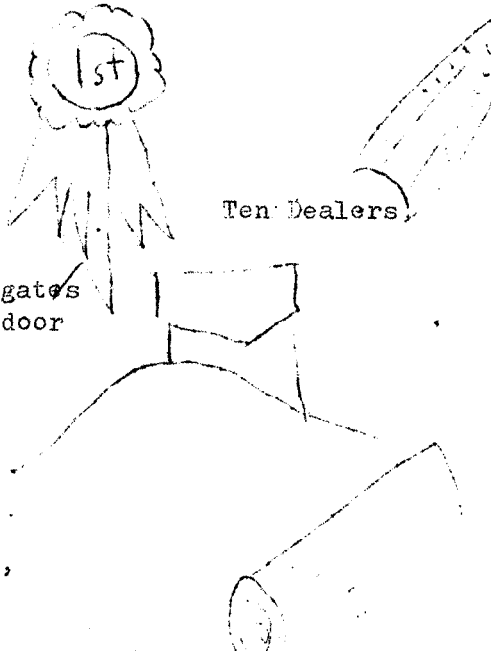
Swapping Area

Hunt Lake Superior Agates
in Nebraskas only indoor
gravel pit

Artifact displays

Fluorescents

Silver work, jewelry,



Ten Dealers

EDUCATIONAL PROGRAMS
Australia and the Opal
Fields, by Vern Souders

Nebraska Travels, by
Frank Marsh

and many others

See: Gems, Agates, Jade
Petrified Wood, Fossils,
Minerals, Crystals,
Faceting Demonstrations,
Working Shop,

Many individual exhibits

Come one, come all!

Welcome Rockhounds

.....Tear along dotted line.....

I plan to display _____ competitive cases of material in the _____ categories.

I plan to display _____ non-competitive cases of material.

I will need _____ feet of floor space.

I will need _____ feet of table space.

I will need _____ loaner cases. Competitive exhibitors will have first call on Wichita cases. Other types of cases will be available for non-competitive exhibits.

Types of material I plan to display _____

Mail to: Lincoln Gem and Mineral Club
P. O. Box 5342
Lincoln, Nebraska 68505

Name: _____
Address _____
City _____ State _____ Zip _____

Midwest Federation's NEWSLETTER

Published monthly except July & August as a Service to Member Clubs
Editor: Haydon Peterson, Route 5 - Box 229, Des Moines, Ia. 50317



Issue No. 103 - March 1970

THE 1970 MIDWEST CONVENTION IS TAKING SHAPE

The Twin Cities are not only the home of such enterprising companies as 3-M and Honeywell and Brown & Biglow and Pillsbury flour; they are also the home of the Minnesota Mineral Club, which is just as enterprising in its preparations to be host to the 1970 Midwest Federation convention and show on July 23, 24, 25 and 26. A visit in St. Paul with the chairman and some of his committee heads late in January indicated that the club is full of enthusiasm for the show and is well advanced in its planning.

It shapes up as a show worthy of one of the largest and most active groups in the Federation. The meeting place is ideal... a huge municipal auditorium in the heart of the Minneapolis business district and close to freeways. The new auditorium is air conditioned and so large that it will be possible to hold all convention affairs on ground level. The club has contracted for 46,000 square feet of space, which is more than an acre, well lighted and with plenty of electric power for lighting displays and power- ing demonstrations. If needed, more space is available.

Contracts have been made with 34 carefully selected dealers from all over the country, including several new to conventions in the Midwest, and with three machinery manufacturers and 12 wholesalers. Space will be divided off with air walls to isolate the wholesalers and to provide a soundproof places for convention meetings and lectures. Loading docks along one side will make it convenient for dealers and wholesalers to bring in their material.

The central core of the exhibition space will be reserved for competitive exhibits, and special and educational exhibits will be given a place of honor at one end of the central area.

A large and well operated cafeteria adjoins the exhibition space to provide visitors with convenient meals of their own choice. The banquet will be held on the Saturday night, July 25, of the show in a large room on the mezzanine floor. The banquet will be catered by the operators of the cafeteria.

A number of special exhibits including carved flowers, sand paintings, exhibits from the Smithsonian and Lizzadro museums, and displays of precious stones have been promised, and some new and never-displayed surprises will be

YOUR BUDGET NEEDED

Executive Committee state directors and chairmen should submit their budgets to the Federation Treasurer, B. G. Dahlberg, 5744 Standish Avenue, Minneapolis, Minnesota 55417, at once so that he can report his budget to the Committee at its spring meeting.

announced later. Security plans are in the hands of a professional company.

Arrangements are being made to provide space for campers on the outskirts of the city and for bus service to link this area with the auditorium. It is likely that a swap session will be in continuous operation at this outlying area. Arrangements for field trips and tours of mineral-related industries are being arranged with the Minnesota tourist bureau and with local industries.

Armin Steinhauser is general chairman of the show. His address is 1571 Raymond Street, St. Paul, Minnesota 55113, and Rex Webb, 2600 87 1/2 Street, Bloomington, Minnesota 55431, is co-chairman. Application for space for the special, educational and competitive display space should be made to Mrs. Marion Anderson, 3749 47th Avenue South, Minneapolis, Minnesota. The show will have, according to my notes, room for nearly 500 exhibits, and the Minnesota Mineral Club will build a number of cases for those exhibitors who can not provide their own.

All signs point to a show that will challenge the best of the past, so mark your calendar and oil up the car or camper for the trip. Minneapolis is a summer resort; in July it should be delightful. -Russell P. MacFall

THE ARCHIVES COMMITTEE

and the Historian are appealing to all clubs in the Federation to see that a history of your club is in the files. We hope at some time to publish histories of all affiliated clubs and feel that no club would like to be omitted from such a publication. If your club has not sent in a recent history will you do so as soon as possible. Send your history to the MWF Historian, Elsie Popejoy, 410 Grant Street, Normal, Illinois 61761.

THE AFMS SCHOLARSHIP FOUNDATION

The establishment of the Foundation was authorized in the By-Laws of the American Federation of Mineralogical Societies many years ago.

ORGANIZATION

The Foundation was incorporated as the AFMS Scholarship Foundation, Inc., a Minnesota corporation, on March 18, 1964. A tax exemption certificate was obtained from the Internal Revenue Service on November 6, 1964.

Members, the equivalent of stockholders in a commercial corporation, are the directors and officers of the American Federation, 18 in number.

A board of directors is elected by the members. The vice president of the Foundation is automatically a director. . . others (six, at present) are elected at large by the members. The board has the management of the Foundation.

The board elects a president, a treasurer and a secretary, each for two-year terms, staggered to insure continuity of management. The president of the Federation is always the vice president of the Foundation. The Foundation, while an independent corporation, is entirely in the control of Federation personnel.

PURPOSE OF THE FOUNDATION

The object of the Foundation is to accumulate a fund, the income from which is to be used to finance scholarships. The principle cannot be spent for any purpose whatever, hence the usefulness of the fund is perpetual.

AWARDS TO BENEFICIARY STUDENTS

Each year, 1965-66, 1966-67, and 1967-68, one student received two annual grants to help him achieve a master's degree in any of the earth sciences.

As the fund, and hence the income from it, increased, the grants were increased, and in subsequent years, more students received grants.

The first, to Victor Lee, (Colorado School of Mines), was for two \$300 grants. The second, to Richard Bideaux, (Harvard University), was for two \$400 grants. The third, to Robert Cook, (Georgia University), was for two \$500 grants. The fourth (year) there were two students. . . William M. Dalness, and Stephen B. Olmore, both University of Utah and each received one \$500 grant, whereupon their Master's work was completed. For the current school season, 1969-70, one additional student will be selected to receive the unused portion of the two-year awards made the fourth year. This same season, 1969-70, three additional students received awards. . . Byron Ristvet, (Northwestern University), two \$500 grants; Alan F. Edwards, (University of Oregon), two \$500 grants; Robert Rich, (Harvard University), two \$500 grants.

Grants are restricted to graduate students to avoid expenditure of money on students who are not committed to earth science subjects. Any student working toward his master's degree is presumed to have decided to follow that field for his lifetime vocation, insofar as such decision is possible. Since our joint interests lie in that field, grants are restricted to earth science students.

SELECTION OF BENEFICIARY STUDENTS

Annually, each of the six regional federations, thru electors appointed by the regional officers, selects two persons of prominence in the earth science field. From among these 12 persons the Foundation's jury of awards selects one name. That person, normally associated with a prominent university or college, selects the schools, and the students, who are to receive the grants.

This indirect method serves our purpose perfectly in that it benefits needy students, yet avoids the enormous task and expense of receiving, sifting and evaluating applications from hundreds or thousands of applicants which would otherwise be necessary if selection were made by ourselves in the conventional manner.

THE FUND

The scholarship fund, stands at approximately \$75,000. With the exception of a few hundred dollars received from outside organizations, the entire amount has been donated by earth science clubs and societies thruout the entire nation, and by individual members of such groups.

100 Percenter Certificates are presented to those clubs whose gifts equal \$1 per member. 200%, 300% etc. seals, for attachment to the 100 Percenter certificates, are presented when such status has been reached, while plaques are presented when 500% and 1000% status has been achieved.

Betty Crocker coupons, (General Mills products), are accepted and turned in to General Mills at 1/2 cent each. Approximately 10 percent of the fund comes from this source.

GIFTS

All gifts to the AFMS Scholarship Foundation are tax-deductible to the donor, Gifts should be sent to each regional federation's scholarship chairman, who will see that the donor receives proper credit. He will forward the gifts, whether coupons or money, to the proper foundation officer.

GOALS FOR THE FUTURE

Driving down the road, we see our first horizon. . . a rise just ahead. Having surmounted that, do we stop when such attractive further vistas and horizons appear? By no means!

The fund has achieved its first "horizon" . . . \$50,000, (is, in fact, well beyond that); and what do we see? Wonderful additional opportunities for service and help for more and more students.

So let's keep driving right ahead, surmounting horizon after horizon. What can we possibly lose? . . . and what unending help we can give! - by W. H. de Neui, President

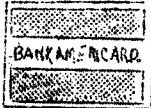
A NOTE FROM EARTH SCIENCE

We think the lead article in our March-April issue is worth the price of a year's subscription. It is Fossil Collecting in the Driftless Area of Minnesota by Dr. Thomas N. Bayer of Winona State College. Silicified wood is the topic of another good article, and we observe March 17th with Ireland Before Patrick. . . Acknowledgements are due the many Midwest Federation people who assist us with articles. We hope you did not miss Howard Shanks' Making Thin Section Peels From Coal Balls and Amel Priest's The Pella Beds of Iowa in January-February. Roy Meyenberg assisted us in obtaining William Hlavin's Paleozoic Vertebrate Occurrences in Ohio in the same issue, and Jean Dahlberg directed us to Dr. Bayer. Thanks, all of you.

-Mary Cornwell

GEOLOGY MUSEUM AWARDS

The two individuals or groups, the one amateur and the other engaged in earth science materials as a business or profession, who offer as donations to the Geology Museum, University of Missouri at Kansas City, during the March 6-8, 1970 Gem and Mineral Show, the specimen, collection, or display judged most desirable by the Department of Geology for its permanent collection, will each be awarded a cash prize of \$50. Entries will be on display during the show and winning selections will be made on Saturday, March 7.



CLAUS



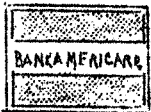
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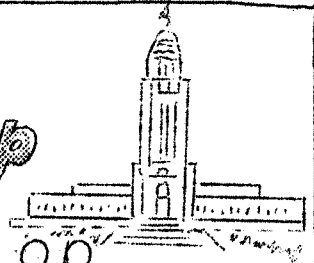
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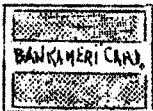
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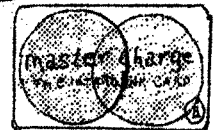
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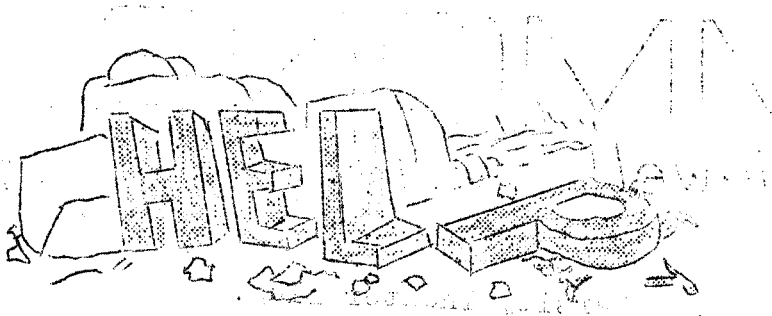
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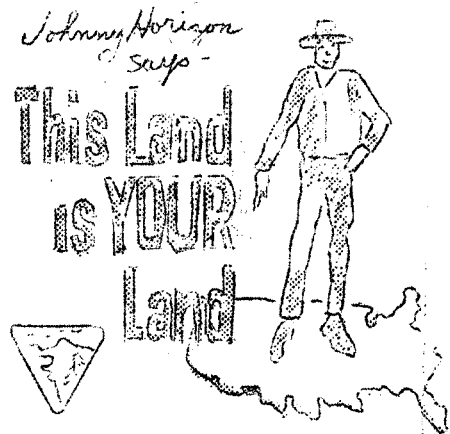
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THEME FOR 1970 - "CONSERVATION" - RUSSELL MACFALL, MWF PRESIDENT



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