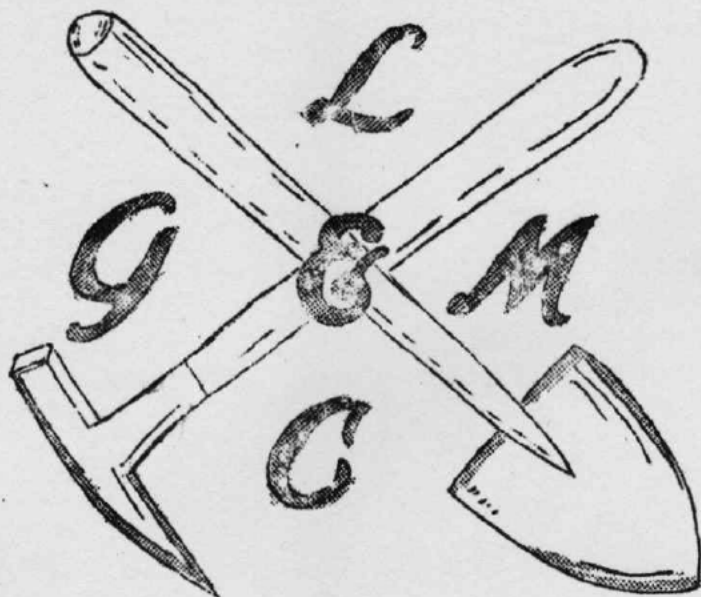


THE PICK & SHOVEL



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

LINCOLN GEM AND MINERAL CLUB, INC.

- President Mrs. V.A. Carveth
2526 South 11th St.
- First Vice-President Thomas Simmons
2970 South St.
- Second Vice-President Everett Weber
5310 Colby St.
- Recording Secretary Mrs. Phyllis Parks
3510 Everett St.
- Treasurer James Parks
3510 Everett St.
- Corresponding Secretary Mrs. Dorothy Engelhart
4130 Witherbee Blvd.
- Historian Mrs. Maurice Tracy
3601 South St.
- Librarian Mrs. Dorothy Engelhart
4130 Witherbee Blvd.

* * *

MEETINGS - FOURTH SATURDAY - SEPTEMBER THROUGH MAY
Roberts Dairy Party Room - 211 So. 20th St.

* * *

Affiliated with:

- Midwest Federation of Mineralogical and Geological Societies
- American Federation of Mineralogical Societies

* * *

BULLETIN EDITOR - Mrs. Velma Bloyd
2818 North Cotner Blvd.
Lincoln, Nebraska

Telephone 434-4781

* * *

Articles published in THE PICK AND SHOVEL may be reprinted with no alterations, provided that full credit is given and that two copies of the publication, in which the reprinted article appears, are mailed to the editor of THE PICK AND SHOVEL.

THE PRESIDENT'S PAGE

Dear Fellow Members;

The club had it's 2nd meeting of the year February 24th. At this meeting we presented a very unusual program. Mr. Schildman, connected with the Nebraska Game and Forest Commission gave a very educational talk and showed us specimens of the reptiles which we might encounter in our field trips this summer. This is something we should all keep in mind, since field trip season is just around the corner. Although these things are unpleasant, it is a precaution and I for one, am scared to death of snakes. How can we keep calm if we should be unfortunate enough to be bitten? It is important we recognize the species etc., this could save our lives, if we know if the snake is poisonous. Our thanks to Mr. Schildman.

Our thanks also to Mr. Moser and Mr. Simmons for their gifts of jade slabs to those present at the meeting.

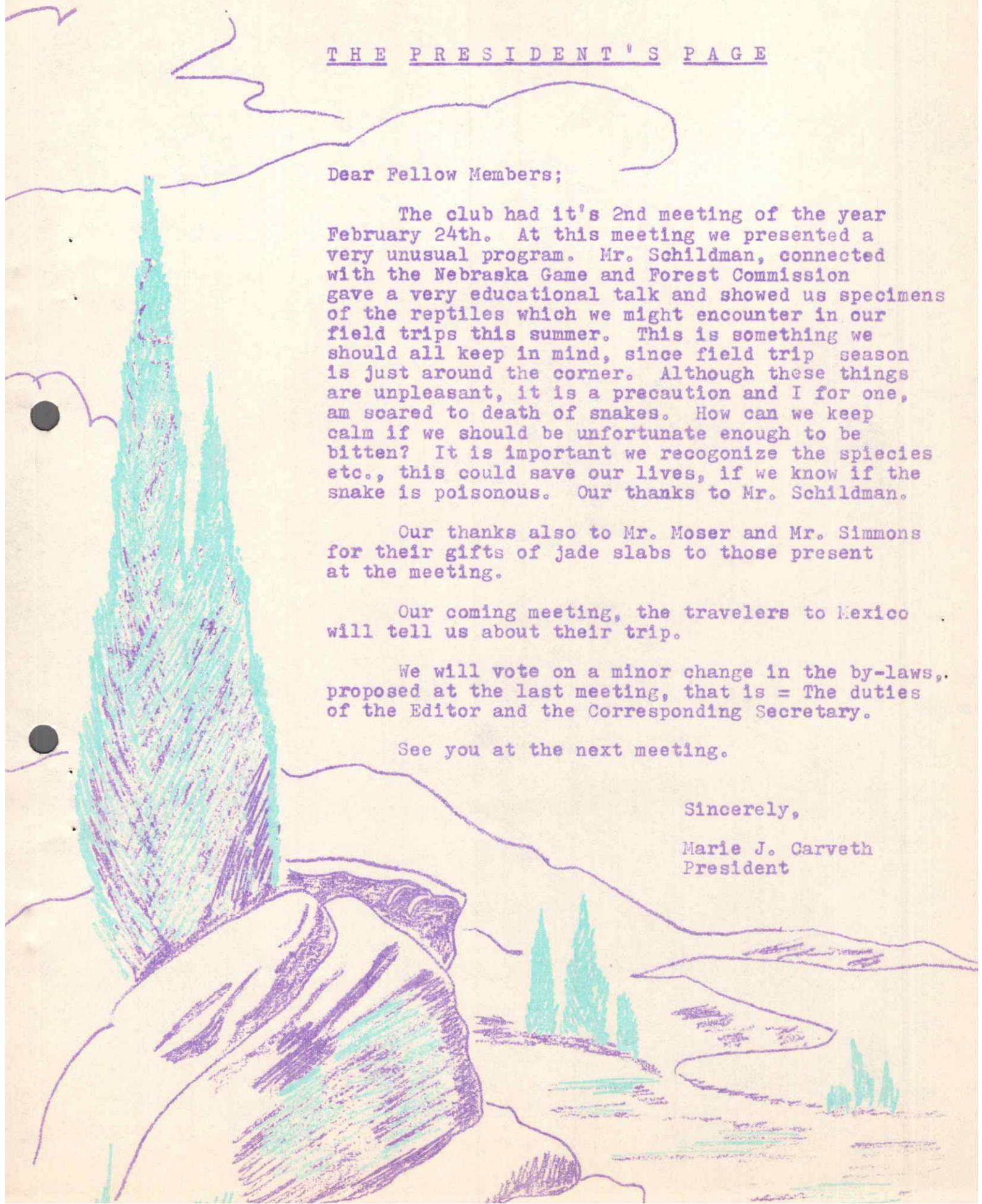
Our coming meeting, the travelers to Mexico will tell us about their trip.

We will vote on a minor change in the by-laws, proposed at the last meeting, that is = The duties of the Editor and the Corresponding Secretary.

See you at the next meeting.

Sincerely,

Marie J. Carveth
President





SATURDAY - MARCH 23, 1963

Regular Meeting -- 7:30 p.m.

Program - An entertaining evening on rocks shall be given to us. Mr. V A Carveth, Howard Taylor and C. Ray Waddle will talk on their trip into Mexico.

Roberts Dairy Party Room
211 South 20th Street

REFRESHMENT COMMITTEE

Mr. and Mrs. Ray Sincebaugh
Mr. and Mrs. Howard Taylor
Krista Johnson and Mrs. Johnson

COMING SHOWS

- March 22 - 24 Tucson Gem and Mineral Soc. Tucson, Arizona
- March 24 Hutchinson Gem and Mineral Soc. ---SWAPARAMA and PICNIC ---Kanopolis Lake, Langly Point, Main shelter house - 8 a.m. to 5 p.m.
- April 19 - 20 Hastings Gem and Mineral Soc. - Hastings, Nebr. National Guard Armory, 2015 West 3rd St.--9 a.m. to 9 p.m.
- April 20 - 21 Southwest Kansas Mineral Soc.- Liberal, Kansas
- April 24 Lincoln Air Base Hobby Show - Lincoln Air Force Base Lincoln, Nebr. - 7 p.m. to 10 p.m.
- April 27 - 28 Wichita Gem and Mineral Soc. - 820 S. Osage, Wichita High School West, Wichita, Kansas



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GA3-4163

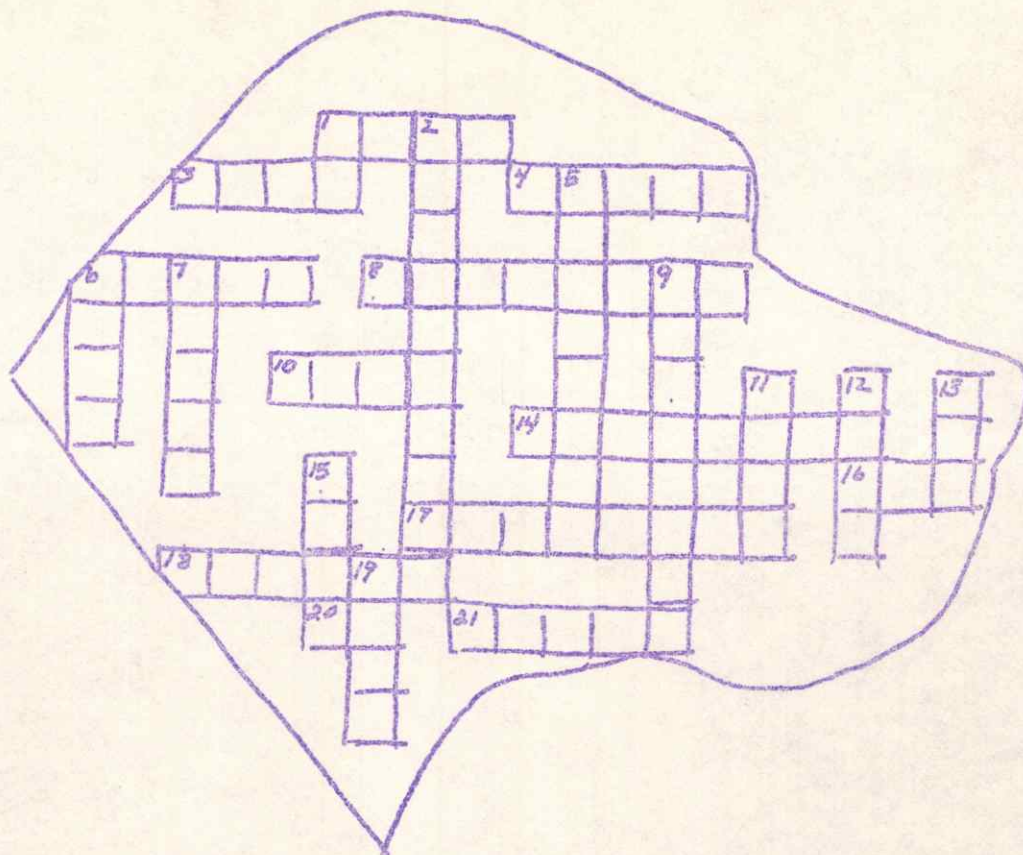
A GEYSER? IN KANSAS?

One of the most interesting and unusual phenomena to occur in the area surrounding Wichita was the eruption of a geyser of gas and brine in the middle of a road near Attica, Kansas, about 65 miles southwest of Wichita. Early Thursday morning, Feb. 7th, an explosion of natural gas caused the eruption of the geyser which during the week end was erupting as often as 50 times per minute and spouting as much as 50 feet high. Oil and gas investigators, under supervision of John Roberts, assistant director of conservation for the Kansas Corporation Commission, were checking the area for leaks testing pressures on oil and gas lines and wells. The geyser site is surrounded by the Spivey-Grabs oil and gas field, which is not dry gas, but mixed oil and gas. Geologists were not certain, but believed the geyser was caused by a previously capped hole which permitted gas to rise several thousand feet where it came in contact with a soft strata, following that sideways until it broke through to the surface. The possibility that the crater was of natural origin was not at first completely ruled out. Known as mud volcanoes, violent gas seepages are common in Trinidad, Burma and the Russian Baku area, where they throw out mud and rocks building cones from a few feet to several hundred feet in height. Kansas State Board of Health officials checked the salt content of the water, which turned out to be in excess of 30% (we were told by one person that tests conducted at the Mobil facilities in the area indicated a 36% salt content). Since the appearance of the geyser millions of cubic feet of natural gas have been spewed into the air from the bubbling pit of mud and foam and along with the gas, thousands of gallons of salt water. By the middle of the week following the initial eruption the activity of the pitching mineral and mud had died down and the height of the eruptions appeared to be nearer 15 feet. The crews checking out all the wells in a widening circle around the crater checked pressure on all producing wells to see if there was a loss of pressure. On the plugged wells, they dug down through four feet of frozen ground to the area where the pipe was sealed off, then checking the well with a stethoscope, listening for the sound of the rush of gas and water. There are an estimated 40 or more oil and gas wells, producing and plugged, in an area of about 1½ mile circumference. The entire Spivey-Grabs field contains between 400 and 500 wells. By February 13th, tentative source of the eruption was believed to be a plugged well some 200 yards from the geyser, but crews working were not yet positive. To date, no way has been estimate the depth of the hole caused by the eruption.

Reprinted from Quarry Quips of Wichita Gem and Mineral Society, Inc. February, 1963

BULLETIN EDITORS NOTE:

The geyser stopped its bubbling Friday March 8th and has become a pool of salt water 94 feet deep. All wells were found to be sound and by relieving pressure on surrounding wells in the same formation curbed the wasteful gusher. The natural gas came from 1,600 to 1,800 feet below the surface through a small crack.



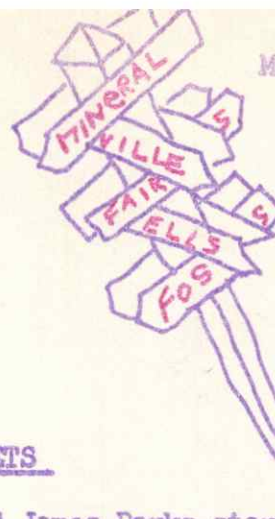
ACROSS

1. Birthstone for July.
3. Highly prized in the orient.
4. Term often applied to Hornstone.
6. Molten rock under the surface of the earth.
8. A mineral similar to Calcite but containing principally Magnesium in place of Calcium.
10. Open cavities in rocks.
14. Distinguished from Hematite by its yellowish streak.
16. Metal bearing rock.
17. Near Havynite but contains little or no lime.
18. Resembling Malachite in color and structure.
20. Chemical symbol for Sodium.
21. Product of the Verneuil process.

DOWN

1. Chemical symbol for Rhenium.
2. Birthstone for March.
5. Iron.
6. Will develop a six ray star around the point of impact.
7. Concretionary rock mass often hollow and lined with crystals.
9. $Cu_3As_2O_8 \cdot 2Cu(OH)_2 \cdot 7H_2O$.
11. An intrusive more or less verticle.
12. A gas.
13. H_2O .
15. Two (or more) crystals intergrown.
19. Hardness of ons.

(Answer next month)



ROCKY NUGGETS

On Sunday, February 17th, Phyllis and James Parks started for a drive, as everyone else was going on 50 mile hikes. They stopped at the "old Gretna Quarries" to relax. They saw many fine Brachiopods visible in rocks too large to carry but did manage to release several from their hiding place. Phyllis accidentally pulled apart one chunk of limestone to discover some very delicate crystals. They have been identified as Calcite. It was getting dark so they had to leave but are going back again some day for a real field trip instead of a jaunt.

Mr. V. A. Carveth, Howard Taylor and C. Ray Waddle have gone on a field trip into Mexico. Virgil Carveth has found chalcidony and some fire agate that we know of. They were on their way to find opals, Monday March 4th. They will be our speakers at our next meeting.

The Lincoln Hobby Show at the Pershing Auditorium was held March 2 and 3rd. Among those showing were Irl Everett, Gary Everett and Fred Gudtner of Beatrice, Nebr. There were many spectators this year and all seemed to enjoy the rocks and minerals that were on display.

If you have news of any trips that were taken, call us or we will be calling you.

Dorothy Engelhart 488-5383

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Telephone IN6 - 6204

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Our latest offerings are OUR very own shoulder patches of the
LINCOLN GEM and MINERAL CLUB

KNOW YOUR FEDERATION

SAFETY PROGRAM

WEARING APPAREL AND ITEMS TO CARRY ON FIELD TRIPS

- 1 - BOOTS are the safest type of shoes for field trips. They not only protect one's ankles and help support the feet when walking on uneven terrain, but more important, they help protect one against snakes, scorpions, etc. Be sure they fit properly. Wear properly fitted woolen socks. They help prevent blisters and help absorb perspiration. They are also an added protection against snake bites.
- 2 - SAFETY GLASSES OR GOGGLES, when working with rocks, they might someday save one's eyesight.
- 3 - A HAT of some sort is always advisable, if for no other reason than to help prevent sunstroke. A hard hat, or helmet in mines or where falling rock might occur is almost a must.
- 4 - WEAR A BELT. Various items can be attached to the belt, such as a knife, canteen, etc., which should always be taken along.
- 5 - FOOD. If one is going to be gone for any length of time, put a sandwich, etc., in your jacket. Be sure to have enough liquids, but don't carry so much as to make your trip a burden.
- 6 - BAND-AIDS AND TRIANGULAR BANDAGE are important. The triangular bandage is a valuable thing to have to bandage an arm or hand, as a compress on the head or, in an emergency, can be used as a tourniquet. On any trip a first-aid kit should be taken along.
- 7 - A WARM JACKET should be at least taken along in the car. Should you be going very far from the car or be gone for some time, it often is advisable to take it with you even if you have to sling it through a belt or some other out-of-the-way place. In high elevations it can often become quite cold. In mountain regions storms can come up without much warning.
- 8 - A CANE OR WALKING STICK of some sort is advised, especially where the underbrush is thick.
- 9 - A COMPASS AND MATCHES in a waterproof case are a must.
- 10 - A ROPE is often advisable, especially if there should be steep climbing.
- 11 - A FLASHLIGHT is often important, should there be the slightest chance of being away from camp after dark. Light not only helps prevent a sprained ankle, etc. but in the heat of the summer, snakes are on the prowl at night.

KNOW YOUR FEDERATION
(continued)SAFETY RULES FOR FIELD TRIPS

- 1 - Never go on a field trip alone. Have someone along who can help, or summon help, if necessary.
- 2 - Should there be children, have the child within seeing and talking distance. A child not only could get lost, but could encounter a snake, scorpion, etc. or have an accident of some sort.
- 3 - Do not collect directly above or underneath people where there might be danger of falling rock.
- 4 - Park so that all cars can get out. Do not block the roadway.
- 5 - Should you leave the field trip early, notify the person in charge.
- 6 - Make sure all fires are out and wet down with water or smothered with dirt completely.
- 7 - Break all matches in fingers before discarding, and be careful where they are thrown.
- 8 - Break any cigarette before discarding, and be careful where they are thrown.
- 9 - Do not throw rocks and do not allow children to do so.
- 10 - Avoid old mine tunnels. Never go into a mine alone. Carry a flashlight and a candle. Carbon dioxide or other gases may be present. There may be lack of oxygen.
- 11 - Respect property rights and signs. Obtain permission to enter property if owned by private persons or company owned.
 - A-Inquire if there are vicious animals in fields.
 - B-Never walk on newly planted or cultivated fields without permission.
 - C-Be extremely cautious in hunting near abandoned buildings. You may stumble into deep well not properly covered.
 - D-Refill any deep holes you dig, as people or animals might fall in.
- 12 - Respect another's diggings. If a person has left for lunch or for any other reason with the intention of returning and has left a pick, coat or any other definite marker.
- 13 - Leave any place in good condition. Do not leave papers, cans, etc., lying around to mar the beauty of the place and to tell others you have been there.
- 14 - Close all gates you may have opened.
- 15 - Never eat wild berries unless you are sure they are safe.
- 16 - Recognize poison ivy and oak. If doubtful, do not touch.
- 17 - Always be alert for snakes, scorpions, etc. Watch where you walk.

SUMMARY of the '63 FIELD TRIP Convention

Following is a brief outline of what has occurred to date and what is outlined for the future of this operation.

CAMPING: At the St Louis County Fairgrounds in Hibbing, Minnesota. Room for over 500 tents, trailers, campers, etc. Also some of the resorts have beautiful sides on a lake or river. On the fairgrounds electricity will be furnished and a guard 24 hrs a day. Fee \$2 for the show period. Not far away in the same grounds will be the **TAILGATING AREA**. Fee \$2 for the Convention period. Open to all - swappers, dealers, traders, etc.

TRIPS: The thomsonite trip is still on. All stories and rumors to the contrary. Binghamite & silkstone area is still up in the air. State areas just about set. A couple of more letters and away we go. Especially good for agate - 2 or 3 kinds and fossils.

FOOD: Breakfasts and lunches will have to be carried by each person. Cafes open early will be listed in coming issues of MESABI MEDIA. Thursday, 18 Jul will be a pasty supper in Hibbing. Friday 19 Jul will be a fish-steak fry in Ely, Saturday 20 Jul the big banquet in Hibbing. Saturday morning the Editor's Banquet in Chisholm, Minn. Sunday there will be a special listing of the area Churches for your convenience. Also special short tours.

..... OFFICERS & CHAIRMEN OF COMMITTEES '63 FT

General Chairman: Conrad B. Peterzen, 2607 E 3 Ave, Hibbing, Minnesota

Associate Gen Chairman: Stan Cvar, POB 274

Reservation: G. Andy Ogden, 2203 E 10 Ave

Mineral Boxes: Oren Kendall, 208 Kerr Loc.

Pasty Supper: Vivian Kendall

Ely Area: Matt Saari, SR 1, Box 95, Ely.

Mineral Specimens: Bertha Bjorkman, Ely.

Hoyt Lakes Area: Jerry Huber, 238 Guilford Road, Hoyt Lakes, Minnesota

Duluth Area & Ad Representative: David Braden, 2104 London Road, Duluth, 12, Minn.

Grand Rapids area: Fred Warner, 1123 Hiway 169 E, Grand Rapids, Minnesota

Buhl area: John Marturano, 419 Memorial Drive, Buhl, Minnesota

George Ohman, Virginia area, 932 N 16 St Virginia, Minnesota

by CON PETERZEN, General Chairman
2607 E 3 Ave, Hibbing, Minnesota

VACATIONS: If your wish is to spend a complete vacation in the Arrowhead of Minnesota, there are hundreds of beautiful lakes - cabins, tenting facilities both privately owned and state operated. One of the alternate locations for your camper, etc is on beautiful Side Lake state park. Swimming and fishing encouraged! Also the Roadless Area of the Quantico-Superior National Forest is just a few miles from Ely. Much more detail on this in coming issues of the MESABI MEDIA.

GOLF: There have been some inquiries by the non-rockhound members of the families if there are any golf courses in the area. At least one and sometimes two in each of the following towns: Grand Rapids, Pengilly, Hibbing, Virginia, Eveleth, and?

WATER SPORTS: All the larger lakes in the area have facilities for boats and swimming. Hoyt Lakes is planning their annual Water Carnival at this weekend.

BUSES: It is hoped that most of the conventioners will plan on taking buses on the longer field trips. The rates will be reasonable and make the entire operation more efficient.

EDITORS: As many copies of this circular as you need for your bulletins will be mailed to you on request. Not necessary for your exchange bulletins!

Alice Ohman, Assistant and ad representative.

Oiva Maki, P O Box 446, Gilbert Minn area

& ad representative.
Frank Kochevar, 211 S Central Ave, Chisholm, Minn. Chisholm area.

Frank Glavan, Box 324, Kinney, Minn area.

Margaret Peterzen, Saturday banquet.

Aldrich Pospichal, 609 NW 7 Ave, Chisholm, Safety committee chairman

Bob Markert, 107 W Ridge, Ishpeming, Mich Assistant safety chairman - goggles.

Lawrence Shepard, Bovey, Minn Tioga field Trp.

Dorothy Schmidt, SR 4, Box 160, Hibbing - Fair Grounds chairman.

More will be added as dues are paid. All in the club will be on the helpers and guides committee. Volunteers!

PRESENTING

Silversmithing findings

Lapidary Aprons

Black lights with Batteries for
field trip use

Mineral Specimens

Mountings

Cut Stones - Faceted - Cabochons

Slab and Rough Material

Equipment for Lapidary

Books - The Lapidary Journal

Maps

Mexican Agate

TELEPHONE 488 --1619



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RENTAL AND LAPIDARY SERVICE

2970 South Street

Lincoln, Nebraska

OUR JUNIOR MEMBERS SPEAK

Glass Slag

I like glass slag. I think it is very pretty and colorful. It comes in almost every color in the rainbow. Some are milky in color, some are clear while others look like snowflakes (the snowflakes are inside the glass slag). A fancier name for glass slag is Cullet. Glass slag tumbles and polishes very nicely. This is why I like glass slag.

Susan Jolene Taylor
Pepple pup - age 10

Why I'm a Fossil Hound

I was all of a sudden a fossil hound. Mom started me out to be a rockhound and all I could find was snake stones. She would look at them and say it is pretty but not quite what we wanted. Till I found a bone and it was a small bone but never the less it was a fossil bone.

We have taken lots of trips and found many types of fossils. My favorite fossil is a large slab of crinoid stems with brachiopods, gastropods imbedded in limestone, found in Moline, Kansas.

My biggest project was cleaning up Myrtle, the turtle about 20 pounds of fossil in one piece. Spent all winter cleaning Myrtle the turtles mother. Soak in water and scraped mud off each piece. Must be 110 bones all together with the leg bones and all. Right now I am cleaning off the over burden of a fossil fish. On a limestone plate with a needle and magnifying glass.

I go to the museum often to get help to identify my collection.
The more I study fossils, the more I want to add to my collection.

Garry Heedick

* * *

BOOKS

Our librarian, Dorothy Engelhart, says the library is open. Come at any time and check out any of the following books.

Field Guide to Rocks and Minerals by Frederick H. Pough

Minerals Yearbook (1947) by Bureau of mines.

Rocks and minerals by Herbert Zim and Paul Shaffer

Haynes Guide Yellowstone National Park by Jack Ellis Haynes

Compend of Geology by Joseph Le Conte

Magazines

Lapidary Journal 1 year (1962)

Gem's and minerals 5 years (1956—1960)

Our exchange Bulletins

EDITORS PAGE

In our Silver Working Tips by Adeline E. Nolde, printed in the February issue of THE PICK AND SHOVEL, the sentence should have read,

"Use liquid flux with silver solders (hard, medium and easy) only. Use paste flux with lead (soft) solder. Never use paste flux or the brush to apply it with silver solders - They will never melt. Use a separate brush to work with silver and lead solders. You need all three silver solders (hard, medium and easy) since sometimes you perform several soldering operations."

Your editor made the error when typing and our proof readers were not acquainted with silver work. Our apologies, Adeline.

Our Historian, Francis Tracy, says she is in need of pictures that were taken of last years show for the historian book. If anyone has any pictures that they will loan us for the short time of getting them reprinted get in touch with Francis.



MIDWEST FEDERATION'S
L E T T E R - A - M O N T H
for March 1963

Subject: General Information Concerning Federations
by: Celia Vokoun

A thought expressed in the setting up of the Constitution of one of the recent clubs seeking affiliation with the Federation reads as follows:--- "Experience has shown that knowledge can be more readily acquired by combination of effort than singly..."

The advantages and benefits which an individual received by joining a club multiply many times when the club becomes affiliated with a Federation.

WHAT IS A FEDERATION? Webster defines it as a union of individuals and groups organized for a common good. In relation to the rockhound, it is a union of those individuals and groups interested in the many phases of the "Earth Sciences"; geology, paleontology, archeology and related subjects--- as well as lapidary craftsmanship, for the purpose of stimulating scientific and educational interests and transmitting such knowledge for the common good.

WHY DOES A CLUB JOIN A FEDERATION? Just as an individual usually joins a club in order to learn from others all they know about the chosen hobby; to have pleasant contact with individuals of like interests; and to make friends, so do clubs join the larger organization, THE FEDERATION.

Ideas and experiences flow out from each group for the benefit of all.

Cost wise, it would be prohibitive for a small club, or any club, to contact fifty or one hundred and fifty clubs to propose one idea, not to mention the many suggestions and helpful knowledge disseminated thru a Federation and in turn thru the National Organization.

Therefore, societies and individuals, where possible, elect to join an organization which stimulates KNOWLEDGE and PARTICIPATION.

The amateur rockhounds of this country and those from the rest of the world are bonded together by the Regional Federations covering the specific areas joining to form one National Organization, THE AMERICAN FEDERATION OF MINERALOGICAL SOCIETIES.

For a very small fee set aside from the dues you pay your club, the club secures the many benefits for you which are offered by the Federations.

It could be said here that some of the Federations have made provision for those individuals who, living in remote areas, find no one with whom they can form a club; and for those persons, who, due to illnesses and working schedules, could not participate actively in a local group.

Encouragement is given to these people to seek membership in The Rollin^o Rock Club, made up of individuals from all parts of the World, to secure through that group a comradeship of interest thru that club's publication and Federation affiliation.

BENEFITS FROM THE REGIONAL FEDERATION: As a member of a club affiliated with a Regional Federation, you are entitled to and should receive such information published by the Federation. Your officers are responsible and should see to it that such information is passed on to you. It has been found that a club bulletin is the most

LETTER-A-MONTH
(continued)

advantageous way of presenting such information to members as concerns the many activities and information pursued by the Federation for the members benefit.

As a member of a society belonging to one of the Regional Federations you are automatically a member of the national organization, the AMERICAN FEDERATION OF MINERALOGICAL SOCIETIES.

You may purchase for a minimum charge, the emblem of the Regional Federation as well as the American Federation in the form of pins or decals and have the right to wear or display such emblem.

Your Federation affiliation encourages more contacts leading to broader knowledge, wider horizons and the availability of help when needed, in your rockhound activities and studies.

Affiliated Societies are listed in regional and nationally printed rosters providing a means for interesting and enjoyable contacts with individuals and clubs throughout the country. (One copy of the Directory of your Federation is in the hands of your club's secretary.) You may use such information to make contacts when on your vacations.

Through individual or affiliated membership in a Federation, you are entitled to exhibit your collection of minerals, crystals, or lapidary craftsmanship in the regional and/or national competition (either individually or as part of a club display) for regional and national honors and recognition. In this connection, there is a Uniform set of Rules compiled for your information to show you how to set up for such shows.

The American Federation and the regional Federations maintain active working committees engaged in such matters as developing universal exhibit and judging rules, standardization of mineral nomenclature, securing and listing of program materials, and other matters of interest and benefit to all persons engaged in the hobby.

The American Federation thru the help of the clubs belonging to Regional Federations, maintains a scholarship fund to encourage and help students of the earth sciences obtain an education in this field so they may become the future scientists in such related subjects.

Thru the individual and club participation in the Federation all members benefit.

"YOU ARE INVITED"

All clubs falling under the heading of "ROCKHOUND" are encouraged to examine the advantages offered by the applicable Regional Federation in whose area they operate. Secure unto themselves such advantages.

Many clubs belong to more than one Federation particularly where more than one Federation may be relatively close.

YOUR MIDWEST FEDERATION

The societies advantages and opportunities that affiliated societies and individual members enjoy in the MIDWEST FEDERATION are many and are listed here in brief form.

Over one hundred and thirty societies in addition to individual members are banded together for mutual benefits.

Currently, the Federation is not seeking affiliates from other than the area covered by the states of Illinois, Indiana, Iowa, Michigan, Minnesota, Missouri, Ohio, Wisconsin and the Eastern half of Nebraska, North Dakota and South Dakota. However, applications

LETTER A MONTH
(Continued)

outside this area are not disregarded. Encouragement is given to explore the advantages of their own areas, relative to clubs and the Federation covering their area. The wish to join this Federation is then considered.

Societies and Individual members belonging to the Midwest Federation are affiliates of the American Federation with all privileges.

All members of the affiliated societies and our individual members may wear the official Midwest Federation and/or American Federation emblem as a pin on their coat or dress, or as an attachment to their car by means of a decalcomania. (these may be purchased from the Federation's Treasurer or thru the club secretaries for a small charge.)

Member societies may use the official MWF or AMF emblem on their official stationery and Bulletins and Membership cards.

Each society and member has an opportunity to participate in the general activities and be of service to others.

Affiliation will encourage societies and their members to have more contacts. This means broader knowledge, wider horizons, and the availability of experienced help when needed.

Membership cards are available for the club's use.

An official Directory is sent to all member societies, listing the names of the societies, addresses of officers and time and place of meetings as well as the Federation's officials.

Societies and their members will be encouraged to and will develop a desire to attend and participate in Midwest Federation conventions and shows. They will be entitled to enter displays and compete (if they desire) for awards and trophies in the various shows.

The Society has the right to seek the privilege of holding a Rockrama for its area. The "Rockrama" is a sub-regional show promoted each year.

Lists of films, slides and speakers are available to each member society for club programs in the form of the "Program Planners Manual".

By exchanging the club Bulletin with other clubs, new views and ideas are made available to everyone who participates.

News of society activities are carried regularly in the "Earth Science Magazine" which is devoted to the publication of articles related to the earth sciences and the lapidary arts. This magazine is the official organ of the Midwest Federation. To have your club news related in the magazine (if the club is affiliated with the Midwest Federation)

send your club bulletin or the information to Bernice Rexin, 3934 North Sherman Blvd., Milwaukee Wisconsin. The magazine is available on a subscription basis.

There is a State Vice-President assigned to each state where more than three member societies exist, who is ready to help with problems encountered by a society. (He may offer suggestions for a solution to problems, however determination of outcome is the society's responsibility).

The following Divisions and committees have been set up by the Federation to carry out its objectives in serving the affiliated members:

LETTER A MONTH
(continued)

(1) Archeology (2) Geology (3) Lapidary (4) Mineralogy (5) Paleontology
Each of these Divisions is headed by an expert in the field who is ready to answer questions.

In addition, the committees established to take care of specialized tasks are: (1) Directory (2) Education (3) Membership (4) Nomenclature (5) Letter a Month (6) Uniform Exhibit Rules (7) Program (8) Display Cases (9) Mineral and Fossil Exchange (10) Bulletin Exchange (11) Field Trip Coordinator (12) Rockrama (13) Conservation of Collecting Areas (14) Operations Manual (15) Convention Committee by the Host Society each Year and (16) Credentials.

The work expended by the many committees and divisions is carried on for the benefit of all members of the Federation and to cooperate with the American Federation in affairs of a national scope.

All of this for the small per capita cost of 25¢ computed on the society's membership roll as of December 31, with a minimum of \$2.50 for each society. Five cents of this is forwarded to the American Federation for its efforts on behalf of all six Federations making up the American Federation.

REPORTS FROM OUR MIDWEST FEDERATION DIVISION CHAIRMEN

PALEONTOLOGY - Gertrude Hannen, Chairman of the Paleontology Division, has compiled an excellent, 15 page bibliography of books and pamphlets on geology. By request, she has also included some mineral information and materials for children. A valuable part of this bibliography is the list of publications issued by each State Geological Survey in the Midwest, plus those in Tennessee, Texas, Pennsylvania, and New York. A copy of this list, which is entitled "Information on Geology of the Midwest and Elsewhere for Children, Beginners and Interested Adults", is being sent to each Midwest society.

ARCHEOLOGY - Dan Printup, Chairman of the Archeology Division, has written two very fine articles on archeology which have been published in Earth Science Magazine, the Federation's official publication.

"Methods of Dating", the first of the two articles, was published in the April 1962 issue of Earth Science and the second article, "Populating the Western Hemisphere", was printed in the October 1962 issue of Earth Science.

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The Minnesota Mineral Club has contributed \$106 to the American Federation Scholarship Foundation. The purpose of this foundation is to award scholarships to proven students in the field of the earth science who have shown the ability to complete college and merit education for a master's degree. The foundation needs at least \$20,000 more before it can begin to operate on a self-sufficient basis. Societies and individuals wishing to contribute to this worthwhile cause should send their donation to Richard Burnham, 524 Highland Ave. Upper Montclair New Jersey. Make checks payable to AMFS Scholarship Foundation.