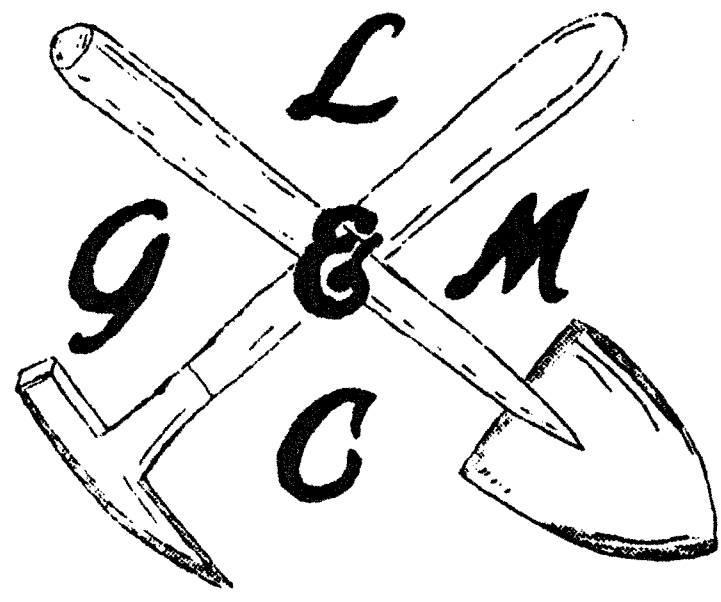


Sept 1964

THE PICK & SHOVEL



MONTHLY BULLETIN OF THE

LINCOLN GEM AND MINERAL CLUB, INC.

LINCOLN, NEBRASKA

LINCOLN GEM AND MINERAL CLUB, INC.

OFFICERS AND APPOINTMENTS

- President. Thomas Simmons
2970 South Street
- First Vice-President. Everett Weber
5310 Colby Street
- Second Vice-President Bruce Simon
3922 South 20 St.
- Recording Secretary. Mrs. Phyllis Parks
3510 Everett Street
- Treasurer. James Parks
3510 Everett Street
- Corresponding Secretary. Dorothy Engelhart
4130 Witherbee Blvd.
- Historian. Mrs. Maurice Tracy
3601 South Street
- Librarian. Dorothy Engelhart
4130 Witherbee Blvd.

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 68507

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IN THIS MODERN AGE OF OURS
WE ALL SHOULD STOP AND PONDER
THE THINGS THE HAND OF GOD HATH WROUGHT
SINCE AGES WAY BACK YONDER.

ROCKS OF COURSE WERE ALWAYS HERE
AND WILL BE HERE WHEN WE'VE GONE
THERE LIFE TRANSCENDS THE AGE OF MAN
AND JUST GOES ON AND ON.

THROUGH THESE AGES MAN HAS USED
THESE ROCKS FOR MANY THINGS
FOR SHELTER, TOOLS AND ORNAMENTS
LIKE JEWELRY AND RINGS.

TODAY TOGETHER IN THIS HALL
ALL SORTS OF THINGS ARE FOUND
TO SHOW YOU WHAT OUR MEMBERS DO
WITH ROCKS OUT OF THE GROUND.

SO TAKE YOUR TIME TO SEE IT ALL
WE'RE GLAD TO HAVE YOU HERE
AND IF YOU LIKE THE THINGS YOU SEE
COME BACK AGAIN NEXT YEAR.

GENE ENO-
Member of the
Lincoln Gem & Mineral Club

A WORD FROM OUR PRESIDENT:

Welcome to the sixth annual Lincoln Gem and Mineral Show. I hope you will enjoy our displays and demonstrations.

The Lincoln Gem and Mineral Show is produced entirely by the members of the Lincoln Gem and Mineral Club, Inc. for the purpose of acquainting others in Earth Science. We are a non-profit club and admission is charged only to help defray expenses.

Our members have samples of their work on the display floor and will be glad to answer any questions pertaining to them. Feel free to ask if you like.

As you leave us after viewing our show, may you take with you a little more knowledge of the form and beauty of the earth in which we live in.

Thomas Simmons
President of the
Lincoln Gem and Mineral Club, Inc.

A FEW FACTS ABOUT OUR CLUB:

Organized - - - - - January 15, 1955

Incorporated - - - - - March 18, 1959

A Non-Profit Organization

PAST PRESIDENTS

- | | |
|------------------------------|-------------------------|
| 1955 - - - - - Maurice Tracy | 1959- - - -Irl Everett |
| 1956 - - - - - Irl Everett | 1960- - -Virgil Carveth |
| 1957 - - - - Richard Hedges | 1961- - - R. D. Gibson |
| 1958 - - - - A.O. Beckman | 1962- - - John A. Lewis |
| 1963- - - - Marie J. Carveth | |

The Lincoln Gem and Mineral Club, Inc. is a civic minded organization and its members, as a club, participate in many services to their schools, church and state.

Some of our activities are:

Donation of material and time to the State Hospital.

Donation of materials and time to Boy Scouts, Campfire Girls and other youth organizations serving as lecturers, leaders, etc.

Donation to Cancer and Heart Fund, a memorial established to honor our deceased members of the club.

Display of materials at school classes, in co-operation with the board of education.

Participation in the Lincoln educational hobby shows.

H.E.L.P. = Help Eliminate Litter Please". We, as members of the Lincoln Gem and Mineral Club practice this and by placing "Help" stickers where ever we picnic, camp and do our rockhunting, we help to remind others to participate in this. We work in the interest of keeping our state and country beautiful.

Interest in childrens hobbies - The Lincoln Gem and Mineral Club has a junior section in the club and encourage these juniors to participate in their hobby as well as other hobbies.

Display of Native Nebraska material, at the University of Nebraska, Morrill Hall.

Scholarship Fund - A fund set aside to help with a master degree to a student in the science field. This is a National program set up by the American Federation of Mineralogy and Geology Society to which the Lincoln Gem and Mineral Club is affiliated.

Milk for Overseas - An International program where affiliated members of the American Federation of Mineralogy and Geology Societies take part.

Many other commendable works are done by our members in our city and state and in the services of our country.

We are proud to be members of a fine organization as the Lincoln Gem and Mineral Club, Inc. We are a young club, but we are continuing to grow in membership each year and we feel and trust that we will continue as a club to do more community help in the future.

THE HOUSE OF BLACK MAGIC

The house of Black Magic is presented to you by the Lincoln Gem and Mineral Club members, to acquaint you with the magnificent beauty of fluorescence. The phenomenon is the ability to glow in the dark when activated by ultraviolet light.

In the world of minerals, luminescence is apparent in some minerals when placed under the rays of ultraviolet light. When viewed under ordinary light of the visible spectrum, these minerals sometimes appear quite plain, like ordinary rock, but turn on an ultraviolet light and an exciting display of color jumps forth. Just what causes this unusual occurrence? What process of nature's handiwork causes the beautiful colors?

Briefly, what happens is this:

Ultraviolet light is light with a wave length just slightly shorter than the shortest visible light wave which we see. When these light waves fall on some materials it excites the electrons contained in the atoms, and causes them to release energy which is apparent to us as a visible light. The wave length of the emitted light varies, which causes different colors to appear.

Ultraviolet light comes in many types, but two types are shown. The short wave, which is just barely below the visible spectrum and long wave, which is just beyond that. Certain minerals fluoresce one color (or intensity) under short wave and another under long wave.

The phenomenon can occur almost any place -- in your home, plants in your garden, in living things, in the sea. The eggs in your refrigerator may turn pink under ultraviolet light and the Chlorophyll in plants glows a dull red.

Many are familiar with the luminous dials on watches and light switches. Most are acquainted with the long white tubes that provide illumination in millions of offices and homes.

Fluorescence plays a big part in the medicine of today, Researchers have used it in the study of cancer, and your physician's fluorescence screen is a great value to public health.

We hope this brief description will help you enjoy your visit to the House of Black Magic.

The phenomenon of fluorescence is responsible for all of the television sets today. Every television tube is coated with a fluorescent powder on which the picture is transmitted. The reaction of the electrons releases visible light, which we know as fluorescence and makes possible the picture on the television tube.

ARTIFACTS, MINERALS & OPALS

Mr. William F. Sass has been a collector of minerals and artifacts for many years and has one of the most extensive collections in the Midwest. Most of his artifacts have been found by him. The ceremonial axe shown here is made of Jade and is of the pre-columbian era.

Some of his quartz crystals are quite rare in that they have very unusual terminations. His collection of minerals contains many specimens fine enough for any museum.

The opals displayed are only a representative group from his collection. Visitors are welcome to stop and view his museum in its entirety. Mr. Sass resides at Springfield, Nebr.

QUARTZ OF INTEREST

Mr. Leon M. Agee of Spokane, Washington has brought a display of 3 outstanding pieces of quartz. (1) a 16 pound smoky quartz crystal with hematite crystal inclusions, faceting grade and fully terminated; (2) a light, smoky quartz crystal, faceting quality and with perfect terminations; (3) a cluster of quartz crystals, some double terminated with sand inclusions.

Mr. Agee has been a hobbyist for many years and it is with great pride that we announce his displaying at our show.

GEMS ON LOCATION

This display is a group effort of the members of the Lincoln Gem and Mineral Club, Inc. The stones are private property and are loaned for this display. Each stone is placed as near as possible to the exact location where it was found. Only stones that we know the origin of are used. The purpose of this display is to acquaint people with as many gem locations as possible. We are still adding good representative stones.

In 1962, this case was placed in competition in the American Federation of Mineralogy and Geological Society show at Des Moines, Iowa. The results were a second prize ribbon which is displayed with this case.

In the last two years the Lincoln Gem and Mineral Club, Inc. has placed this display at many public schools and at various shows for the purpose of education.

VISUAL AID CASES

The visual aid cases on display were assembled by the Lincoln Gem and Mineral Club, Inc. for the purpose of better acquainting the students with the gems and minerals they are studying and to promote an interest in earth science. Most of the rocks and minerals mentioned in the text book "Modern Earth Science" by Ramsey and Burchley are displayed in sequence in these three cases. The text has been approved by the City, County and State Board of Education. A copy of this text accompanies this unit at all times. These cases are available for use by parochial, county schools or youth groups within a radius of fifty miles of Lincoln AT NO CHARGE. Make reservations with Mrs. Norman Engelhart, 4130 Witherbee, Lincoln, Nebraska. 488-5383. An exact copy of this unit has been donated to the Lincoln Public schools for the 8th grade science classes.

MACHINE SHOP NEWS

LAPIDARY

Mr. Floyd Olson, our machine shop chairman, will demonstrate the art of lapidary work. He will be assisted by members of Lincoln Gem and Mineral Club. The demonstration will take you through all the steps of cutting a cabochon.

SILVERSMITHING

Mr. C. E. Stegman from Pierce, Nebraska will be our silversmith this year. He demonstrates the art of using silver to make lovely mountings for jewelry.

Silversmithing has been his hobby for many years and he has demonstrated this art in many shows in the midwest.

Jewelry mounting hand made by Mr. Stegman may be purchased at this show. He will, on request, custom mount your stone for you while you wait. A case of personal jewelry from his collection will be on display to the public.

FACETING

Leon M. Agee, a faceter for eight years, will be demonstrating the art of faceting gem stones. Using a custom made machine, he has faceted many gem stones for the private collector. Mr. Agee makes his living as a professional faceter and will take orders for cutting gems at our show. The beautiful stones he facets as a demonstrator will be for sale.

Mr. Agee resides at 2325 West 2nd Street, Apt 106, Spokane, Washington. Some of his stones may be seen on display.

SPHERES

Mr. Fred Gudtner is once again in our machine shop with his home made sphere machine. A member of three years in Lincoln Gem and Mineral Club. He will operate his own machine so you may see how a sphere is cut. Mr. Gudtner is a retired blacksmith and operates the Blue Valley Lapidary Shop at Beatrice, Nebraska.

SAWING AND VIBRA-LAPPING

A custom saw will be operated by our President, Thomas Simmons. Mr. Simmons is a member of Lincoln Gem and Mineral Club for many years and operates the Simmons Rental and Lapidary Shop in Lincoln, Nebraska.

A vibra-lap will be in operation so the public may view how a slab may be polished. Mr. Simmons is the owner of this machine.

DIAMOND DRILL

Mr. Fred Gudtner is the owner of our diamond drill on display and will do the operating of the machine himself. Many people are not acquainted with this machine and it is with pleasure that we show it to you in operation.



Our dealers give you an opportunity to buy lovely jewelry slabs and rough cutting material. Many have findings, minerals, etc for sale. They await your inspection and selection.

This year we have six dealers with us who are from out of state and one dealer who is from the midwest part of Nebraska. It gives us great pleasure in welcoming our dealers who are with us for the first time this year.

Your dealers for 1964 are as follows:

EBERSOLE LAPIDARY
11417 West Highway 54
Wichita, Kansas

GUY MILLER
1245 North California
Hastings, Nebraska

EVERETT LAPIDARY
2941 North 65th St.
Lincoln, Nebraska

ROCKY GEMS
600 S. Madison
Wichita, Kansas

PENICK LAPIDARY SUPPLY
P.O. Box 277
Lewellen, Nebraska

ODOM'S
Star Route A. Box 140
Austin, Texas

CRETE LAPIDARY SUPPLY
1485 Main Street
Crete, Illinois 60417

DICK'S ROCK MUSIUM
Moraine Park Road
Estes Park, Colorado

A VOLUNTEER IS:

V-aluable to your club because you are
O-bjective in your attitudes
L-ooking for ways to serve
U-nderstanding of all human frailties
N-ever critical
T-reating all as friends
E-ager to learn
E-arnest in carrying responsibility
R-espectful of rightful authority
S-incerely interested in club service

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

1964 L.G.M.C. SHOW COMMITTEES

THOMAS SIMMONS

NORMAN ENGELHART

ARTHUR BLOYD

ROBERT BAINBRIDGE

<u>OUTDOOR SIGNS</u> Howard Taylor	<u>PROGRAM</u> R. Sincebaugh D. Sincebaugh	<u>DEALERS</u> Thomas Simmons	<u>POLICING</u> Jim Hosic B. Bainbridge Glen Lyman Frank Rule
<u>ADVANCE TICKETS</u> Clyde Miller	<u>GENERAL TICKETS</u> Clyde Miller	<u>INDOOR SIGNS</u> C. Ray Waddle Ray Lambert	<u>KITCHEN</u> Velma Bloyd D. Engelhart M. Bainbridge
<u>JUNIORS</u> Judy Weber *Everett Weber	<u>TABLES & LIGHTS</u> V. A. Carveth	<u>INSURANCE</u> V.A. Carveth Gene Eno	<u>FLUORESCENT</u> Art Bloyd Jim Parks N. Engelhart
<u>PUBLICITY</u> Bruce Simon	<u>LAPIDARY SHOP</u> Floyd Olson	<u>SPECIAL DISPLAYS</u> Show Committee	
<u>JUNIOR ROCK HUNT</u> Norma Miller	<u>REVOLVING DISPLAY</u> Marie J. Carveth	<u>LIGHTING</u> Frank Rule	

These are our 1964 committee chairmen and the Lincoln Gem and Mineral Club is proud to list their names. Without their endless support this show would not have been possible.

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